



ROHDE & SCHWARZ

Test and Measurement
Division

Service Manual

**DIGITAL
RADIOCOMMUNICATION
TESTER for CDMA**

CMD80
1050.9008.80

VOLUME 2
The service manual consists of 2 volumes

Printed in the Federal
Republic of Germany

Safety Instructions

This unit has been designed and tested in accordance with the EC Certificate of Conformity and has left the manufacturer's plant in a condition fully complying with safety standards.

To maintain this condition and to ensure safe operation, the user must observe all instructions and warnings given in this operating manual.

1. The unit may be used only in the operating conditions and positions specified by the manufacturer. Unless otherwise agreed, the following applies to R&S products:

Pollution severity 2, overvoltage category 2, IP degree of protection 2X, altitude max. 2000 m.

The unit may be operated only from supply networks fused with max. 16 A.

2. For measurements in circuits with voltages $V_{rms} > 30\text{ V}$, suitable measures should be taken to avoid any hazards.

(using, for example, appropriate measuring equipment, fusing, current limiting, electrical separation, insulation).

3. If the unit is to be permanently wired, the PE terminal of the unit must first be connected to the PE conductor on site before any other connections are made (installation and cabling of the unit to be performed only by qualified technical personnel).

4. For permanently installed units without built-in fuses, circuit breakers or similar protective devices, the supply circuit must be fused such as to provide suitable protection for the users and equipment.

5. Prior to switching on the unit, it must be ensured that the nominal voltage set on the unit matches the nominal voltage of the AC supply network.

If a different voltage is to be set, the power fuse of the unit may have to be changed accordingly.

6. Units of protection class I with disconnectible AC supply cable and appliance connector may be operated only from a power socket with earthing contact and with the PE conductor connected.

7. It is not permissible to interrupt the PE conductor intentionally, neither in the incoming cable

nor on the unit itself as this may cause the unit to become electrically hazardous.

Any extension lines or multiple socket outlets used must be checked for compliance with relevant safety standards at regular intervals.

8. If the unit has no power switch for disconnection from the AC supply, the plug of the connecting cable is regarded as the disconnecting device. In such cases it must be ensured that the power plug is easily reachable and accessible at all times (length of connecting cable approx. 2 m). Functional or electronic switches are not suitable for providing disconnection from the AC supply.

If units without power switches are integrated in racks or systems, a disconnecting device must be provided at system level.

9. Applicable local or national safety regulations and rules for the prevention of accidents must be observed in all work performed.

Prior to performing any work on the unit or opening the unit, the latter must be disconnected from the supply network.

Any adjustments, replacements of parts, maintenance or repair may be carried out only by authorized R&S technical personnel.

Only original parts may be used for replacing parts relevant to safety (eg power switches, power transformers, fuses). A safety test must be performed after each replacement of parts relevant to safety.

(visual inspection, PE conductor test, insulation-resistance, leakage-current measurement, functional test)

10. Ensure that the connections with information technology equipment comply with IEC950/EN60950.

11. Any additional safety instructions given in this manual are also to be observed.

Safety-related symbols used on equipment and documentation from R&S:



Observe operating instructions



Weight indication for units >18 kg



PE terminal



Ground terminal



Danger! Shock hazard



Warning! Hot surfaces



Ground



VOLUME 1

- 6 Service Instructions for the Complete Instrument**
- 7 Service Instructions for Individual Modules**

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VOLUME 2

- 7 Service Instructions for Individual Modules**

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Adaptor for Options CMD-B60 (incl. CMD-B61/CMD-B62)	1059.5405.02.....	5
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3/11/11

2011 Annual Report for the Board of Directors

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Operating income	1,201,000	1,201,000
Operating expenses	(1,000,000)	(1,000,000)
Operating profit	201,000	201,000
Income tax expense	(50,000)	(50,000)
Net income	151,000	151,000

Net income	151,000	151,000
Depreciation and amortization	100,000	100,000
Change in accounts receivable	(20,000)	(20,000)
Change in accounts payable	10,000	10,000
Change in other assets and liabilities	(10,000)	(10,000)
Net change in cash	131,000	131,000

Operating activities	151,000	151,000
Investing activities	(10,000)	(10,000)
Financing activities	(10,000)	(10,000)
Net change in cash	131,000	131,000



ROHDE & SCHWARZ

SERVICE DOCUMENTS
Digital Downconverter

1051.2407.02



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7 Service Instructions for Digital Downconverter

7.1 Function Description

(See circuit diagram 1051.2407 S)

The Digital Downconverter is located in the receive path after the Analog Downconverter. The board accommodates 2 sandwich boards (Dither Unit + DSP 56002 Module).

The analog IF signal is digitized and then further processed. The core of the board consists of a digital signal processor (DSP).

The main functions of the Digital Downconverter are:

- Digitizing the IF input signal and preparing it for baseband processing.
- Recording and processing of the demodulated signals in a Digital Downconverter.
- Interface to main instrument processor

7.1.1 Digitizing the IF Input Signal and Preparing it for Broadband Processing

The IF input signal IF3RX (X601) is digitized using a 10-bit AD converter. The signal NETCLK (X62.A32) generated by the Link Handler is used as converter clock. The digitized IF signal is numerically mixed into the complex baseband using an NCO device. Thus, in-phase and quadrature signals (IQ signals) with a large oversampling factor are produced. These IQ signals are filtered in integrated devices and polled at the sampling rate. On the one hand, these IQ data are available for external further processing with an 8-bit word width (ID0 to 7, QD0 to 7 plus control signals, e.g. IQCLK), on the other hand, they are taken via a FIFO to the DSP, which, in turn, can file the data in the memory for postprocessing.

7.1.2 Recording and Processing of the Demodulated Signals

The DSP is responsible for the measurement tasks of the CMD:

Examples:

- Narrowband power measurement.
- Modulation accuracy measurement.
- Power ramp profile etc.

For optimization of the dynamic and linearity characteristics of the AD converter, the sandwich board additionally contains the Dither unit. This module adds up analog pseudo random noise at the AD converter input, which is numerically subtracted again at the digital output. Thus a gain in the dynamic range can be achieved by means of an appropriate subsequent lowpass filter.

7.1.3 Trigger Unit, Timing Unit and Interrupt Controller

These functions can be configured and loaded into programmable devices via the DSP. During CMD70 instrument operation, the signal POWER INT (X61.B12) from the Frontend is used as trigger source, triggering an interrupt in the DSP.

7.1.4 Interface to Main Processor of Instrument

A 14-bit wide AT interface connects the Digital Downconverter board to the main processor of the instrument. It permits to exchange measurement instructions and results between DSP and AT.

7.1.5 Serbus

The control of the main switches, NCOM frequency, parameters and coefficients of the filter devices are loaded via the Serbus.

7.2 Interfaces

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X601	IF3RX, IF signal	I	A	+/- 1V peak; 2.8 MHz	SMB connector
X61A1/A3/A5/A9/ A10/A12/A13/ A14/A16/A25/A27 /A29/A31/B1/B3/ B5/B8/B10/B23/ C1/C3/C5/C12/ C21/C31 X62A1/A3/A12/ A22/A25/A31/B5/ B28/B32	GND, ground	-	P	-	
X61A2	+5 VREF, reference voltage	I	P	+5 V	
X61A4/B4	-15.3 V, supply volt	I	P	-15.75 V to -14.85 V	
X61A6/B6/A7/B7	+5.2 V, supply volt.	I	P	5.15 V to 5.25 V	
X61A8	+12 V, supply voltage	I	P	11.65 V to 12.35 V	
X61B9/A11	+15.3 V, supply volt	I	P	14.85 V to 15.75 V	
X61B11	+7.7 V, supply volt	I	P	7.45 V to 7.95 V	
X61A21	SERBCLK, serbus clock	B	D	TTL	These signals are bidirectional because a decoder and a master device are both on the board (active low)
X61A22	SERBDATA, serbus data	B	D	TTL	
X61A23	SERBINT, serbus interrupt	B	D	TTL	
X61A24	SERBSYNC, serbus synchronization signal	I	D	TTL	
X61A32	IQCLK, clock signal for I/Q signals to link handler	O	D	TTL, 33 MHz max.	
X61C13	ID0	O	D	TTL	I/Q signals to link handler Synchronous to IQCLK clock
X61C14	ID1	O	D	TTL	
X61C15	ID2	O	D	TTL	
X61C16	ID3	O	D	TTL	
X61C17	ID4	O	D	TTL	
X61C18	ID5	O	D	TTL	
X61C19	ID6	O	D	TTL	
X61C20	ID7	O	D	TTL	
X61C22	QD0	O	D	TTL	
X61C23	QD1	O	D	TTL	
X61C24	QD2	O	D	TTL	
X61C25	QD3	O	D	TTL	
X61C26	QD4	O	D	TTL	
X61C27	QD5	O	D	TTL	
X61C28	QD6	O	D	TTL	
X61C29	QD7	O	D	TTL	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark	
X61B12	TBUSPOWERINT, power interrupt	I	D	TTL	The TBUS signals are connected to a runtime programmable logic device. Therefore, the meaning and direction of these signals can be changed dynamically.	
X61B13	TBUSSIGINT, signalling trigger from link handler	I	D	TTL		
X61B15	TBUSRXFRMOUT	I	D	TTL		
X61B16	TBUSAFRAMEREF	I	D	TTL		
X61B14	TBUSRES1	-	D	TTL		
X61B17	TBUSRES2	-	D	TTL		
X61B18	TBUSRES3	-	D	TTL		
X61B19	TBUSRES4	-	D	TTL		
X61B20	TBUSRES5	-	D	TTL		
X61C2	EXTAIINP, external analog I input	I	A	+/- 1 V peak		
X61C4	EXTAQINP, external analog Q input	I	A	+/- 1 V peak		
X61C32	20 MHz, reference clock	I	D	TTL		
X62A4	SD0	B	D	TTL	ISA bus signals	
X62A5	SD1	B	D	TTL		
X62A6	SD2	B	D	TTL		
X62A7	SD3	B	D	TTL		
X62A8	SD4	B	D	TTL		
X62A9	SD5	B	D	TTL		
X62A10	SD6	B	D	TTL		
X62A11	SD7	B	D	TTL		
X62A23	IOW	I	D	TTL		(active low)
X62A24	IOR	I	D	TTL		(active low)
X62B1	SA0	I	D	TTL		
X62B2	SA1	I	D	TTL		
X62B3	SA2	I	D	TTL		
X62B4	SA3	I	D	TTL		
X62B29	RESETDSP, reset signal for the board	I	D	TTL		(active low)
X62B30	CSDSP, chip select signal for the dsp interface	I	D	TTL		(active low)
X62B31	DSPINT, interrupt signal of dsp's (to controller board)	O	D	TTL		(active low)
X62A28	SCIEXTRXD	I	D	TTL		SCI interface of dsp, source of programmable clock
X62A29	SCIEXTTXD	O	D	TTL		
X62A30	SCIEXTSCLK	-	D	TTL		
X62C27	SC0	-	D	TTL	SSI interface of dsp, source of clock and SC0/1/2 programmable	
X62C28	SC1	-	D	TTL		
X62C29	SC2	-	D	TTL		
X62C30	SCK	-	D	TTL		
X62C31	SRD	I	D	TTL		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark	
X62C32	STD	O	D	TTL		
X62A32	NETCLK, system-specific clock from link handler	I	D	TTL, 33 MHz max.		
X62C7	BD0, buffered data signal	B	D	TTL	Interface to option board	
X62C8	BD1, "	B	D	TTL		
X62C9	BD2, "	B	D	TTL		
X62C10	BD3, "	B	D	TTL		
X62C11	BD4, "	B	D	TTL		
X62C12	BD5, "	B	D	TTL		
X62C13	BD6, "	B	D	TTL		
X62C14	BD7, "	B	D	TTL		
X62C15	BA0, buffered address	O	D	TTL		
X62C16	BA1, "	O	D	TTL		
X62C17	BA2, "	O	D	TTL		
X62C18	BA3, "	O	D	TTL		
X62C19	BA4, "	O	D	TTL		
X62C20	BRD, buffered read signal	O	D	TTL		(active low)
X62C21	BWR, buffered write signal	O	D	TTL		(active low)
X62C22	CSPFC, chip select for counter PFC	O	D	TTL		(active low)
X62C23	CSOPTION, chip select for option board	O	D	TTL		(active low)
X62C24	OPTPOLL, not connected	-	-	-		
X62C25	PFCINT, interrupt of counter	I	D	TTL		(active low)
X62C26	OPTIONINT, interrupt of option board	I	D	TTL		(active low)
X61A15/A17/A18/A19/A20/A26/A28/A30/B2/B21/B22/B24/B25/B26/B27/B28/B29/B30/B31/B32/C6/C7/C8/C9/C10/C11/C30 X62A2/A13/A14/A15/A16/A17/A18/A19/A20/A21/A26/A27/B6/B7/B8/B9/B10/B11/B12/B13/B14/B15/B16/B17/B18/B19/B20/B21/B22/B23/B24/B25/B26/B27/C1/C2/C3/C4/C5/C6	not connected	-	-	-		

Signal direction
 I = Input
 O = Output
 B = Bidirectional

Type of signal
 A = Analog
 D = Digital
 P = Power






ROHDE & SCHWARZ

Schalteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
A61	ED DSP56002-MODUL	4037.2102.03			
A61	DSP56002-MODUL NUR VAR/ONLY MOD: 02	4037.2102.03			
A61	ED DSP56002-MODUL DSP56002-MODUL NUR VAR/ONLY MOD: 04	1097.3106.13			
A62	EE DSP_MODUL NUR VAR/ONLY MOD: 06	1051.2859.02			
A62	EE DITHER UNIT DITHER UNIT NUR VAR/ONLY MOD: 02	1097.3229.02			
A62	EE DITHER_UNIT NUR VAR/ONLY MOD: 04	1051.2859.02			
C1	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C2	CE 10UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	0010.7914.00	PANASONIC	EEV-HB1C100R	
C3	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C4	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C5	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C6	CE 220UF+-20%6,3V AL-CHIP SMD-ELECTROLYTIC CAPACIT.	CE 0008.1858.00	VALVO	2222 139 63221	
..9	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C10	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
..12	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C13	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C14	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C15	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C16	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C17	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C18	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C19	CE 10UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	0010.7914.00	PANASONIC	EEV-HB1C100R	
C20	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C21	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C22	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C23	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C24	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C25	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C26	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C27	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C28	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C29	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C30	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C31	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C32	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C33	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C34	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..43					

1CMK	510 3PU-D	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	24	16.02.98	EE DIGITAL_DOWN_CONVERTER	1051.2407.01 SA	1+

095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C44	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C45 ..50	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C51	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C52 ..64	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C65	CC 820PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7381.00	PHILIPS_CO	2222 863 18821	
C66	CC 22UF+80-20% 10V 1210 CERAMIC CAPACITOR	1097.6563.00	TAIYO_JUDE	LMK 325 F 226 ZN	
C67 ..74	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C75	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C76 ..141	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C142 ..145	CC 22UF+80-20% 10V 1210 CERAMIC CAPACITOR	1097.6563.00	TAIYO_JUDE	LMK 325 F 226 ZN	
C146	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C147 ..156	CC 22UF+80-20% 10V 1210 CERAMIC CAPACITOR	1097.6563.00	TAIYO_JUDE	LMK 325 F 226 ZN	
C157	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C158	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C159	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C160	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C161	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C162	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C163	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C164	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C165	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C166	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C167 ..170	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C171	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C172 ..174	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C175	CC 22UF+80-20% 10V 1210 CERAMIC CAPACITOR	1097.6563.00	TAIYO_JUDE	LMK 325 F 226 ZN	
D1	BC IDT7203L15J FIFO IC MEMORY	1097.6634.00	IDT	IDT7203L15J	
D2	BL HSP45116SIN/COSDDS-OSZ IC NUMERIC CONTR OSCILL	1065.8725.00	HARRIS	HSP45116VC-33	
D3	BC HSP43220 DIG.FILTER IC DECIMATING DIG FILTER	1065.8731.00	HARRIS	HSP43220JC-33	
D4	BC HSP43220 DIG.FILTER IC DECIMATING DIG FILTER	1065.8731.00	HARRIS	HSP43220JC-33	
D5	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE (PC)	74HCT08(D/T)	
D6	BL PC74HCT157T 4X2IN MUX QUAD 2INPUT MULTIPLEXER	BL 0007.6404.00	PHILIPS_SE (PC)	74HCT157(D/T)	
D7 ..9	BL 74FCT138CTS01-8DECODER IC 1-OF-8 DECODER	1051.5164.00	IDT	(IDT74)FCT138C(TSO)	
D10	BL 74ACT14SC 6XINV.SCHM IC HEX SCHMITTTRIGGER	BL 1036.9479.00	HARRIS	CD74ACT14M	
D11	BL 74F112D 2XJK-FF IC DUAL IK-FLIPFLOP	0380.1553.00	SIGNETICS	N74F112D	
D12 ..14	BC TC55328J-25 32KX8 SRAM RAM 32KX8 25NS	0008.1064.00	MOTOROLA	MCM6206CJ(D)25	
D15	BL 74FCT138CTS01-8DECODER IC 1-OF-8 DECODER	1051.5164.00	IDT	(IDT74)FCT138C(TSO)	
D16	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE (PC)	74HCT245(D/T)	

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D17	BL PC74HCT173T 4XD-FF 3S QUAD D-TYPE FLIPFLOP	BL 0007.6933.00	PHILIPS	(PC)74HCT173(T)	
D18	BC XC3042-100PC84C LCA IC LOGIC ARRAY CELL	2032.2624.00	XILINX	XC3042-100PC84C	
D19	HS FPGA D19 DDC	1051.2471.00			
D20	HS GAL D20 DDC	1051.2488.00			
D21	BL 74ACT08SC 4X2-IN AND IC QUAD 2-INP AND GATE	BL 1012.9362.00	HARRIS	CD74ACT08M	
D22	BC IDT7203L15J FIFO IC MEMORY	1097.6634.00	IDT	IDT7203L15J	
D23	BC IDT7203L15J FIFO IC MEMORY	1097.6634.00	IDT	IDT7203L15J	
D24	BL 74F11D 3X3INP AND GATE IC TRIPLE THREE-INP AND	0380.1547.00	SIGNETICS	(N)74F11D	
D25	BL 74ABT16821DL 3S BUS FF IC 20BIT FLIP FLOP	0009.6560.00	TEXAS	(SN74)ABT16821(DL)	
D26	BL 74ABT16821DL 3S BUS FF IC 20BIT FLIP FLOP	0009.6560.00	TEXAS	(SN74)ABT16821(DL)	
D27	BL 74ABT574D 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	0009.8404.00	PHILIPS_SE	(74)ABT574(D)	
.29 D30	BL PC74HCT00T 4X2IN.NAND NAND GATE	BL 0007.6156.00	PHILIPS_SE	(PC)74HCT00D(T)	
D31	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
.39 D40	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D41	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	0008.6143.00	THESYS	TH3032.1C	
D42	BC X24C16S14 2KX8 EEPROM SERIAL EEPROM	1028.8190.00	XICOR	X24C16S(14)	
D43	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D44	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D45	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D46	BL PC74HCT165T 8B SHREG SHIFT REGISTER	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
D47	BL PC74HCT165T 8B SHREG SHIFT REGISTER	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
D48	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D49	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D50	BL 74ACT08SC 4X2-IN AND IC QUAD 2-INP AND GATE	BL 1012.9362.00	HARRIS	CD74ACT08M	
D51	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D52	BL 74ACT32SC 4X2-IN OR IC QUAD 2-INPUT OR GATE	BL 1012.9385.00	HARRIS	CD74ACT32M	
D53	BL 74ACT174SC 6XD-FLIPFL IC HEX D-FLIPFLOP M	BL 1012.9427.00	HARRIS	CD74ACT174M	
D54	BL 74ACT32SC 4X2-IN OR IC QUAD 2-INPUT OR GATE	BL 1012.9385.00	HARRIS	CD74ACT32M	
D55	BL 74ACT04SC 6X INVERTER IC HEX INVERTER	BL 1012.9379.00	HARRIS	(CD74)ACT04(M)	
D56	BL 74ACT541SC 8XBUF/DR 3S 8XBUFFER/LINEDRIV 3-ST	BL 1006.4033.00	HARRIS	CD74ACT541M	
D57	BL 74ACT245SC 8XBUSTRANSC IC OCTAL BUS-TRANSC 3-ST	BL 0008.0739.00	HARRIS	CD74ACT245M	
D58	BL 74ACT245SC 8XBUSTRANSC IC OCTAL BUS-TRANSC 3-ST	BL 0008.0739.00	HARRIS	CD74ACT245M	
D59	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D60	FR PLCC-FASSG.68P. IN SMT PLCC-SOCKET 68P.	FR 0008.1935.00	E-TEC	PLS-068-H105-00/4R	
D61	BL 74ABT574D 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	0009.8404.00	PHILIPS_SE	(74)ABT574(D)	
D62	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	HARRIS	CD74ACT573M	
D63	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	HARRIS	CD74ACT573M	
D64	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D65	BL 74ACT04SC 6X INVERTER IC HEX INVERTER	BL 1012.9379.00	HARRIS	(CD74)ACT04(M)	
D66	BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE	BL 2013.8620.00	NSC	74ACT125SC	

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D67	BL 74FCT245ASO 8XBUSTRSCV IC 8XBUS TRSCV 74FCT245A	2000.2264.00	IDT	IDT 74FCT245ASO	
D68	BL 74FCT245ASO 8XBUSTRSCV IC 8XBUS TRSCV 74FCT245A	2000.2264.00	IDT	IDT 74FCT245ASO	
D69 ..71	BL 74ABT574D 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	0009.8404.00	PHILIPS_SE	(74)ABT574(D)	
D72 ..76	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	HARRIS	CD74ACT573M	
D77	BL PC74HCT139T 2X2/4L.DEC LINE DECODER	BL 0007.6356.00	PHILIPS_SE	(PC)74HCT139D(T)	
D78	BC IDT7203L15J FIFO IC MEMORY	1097.6634.00	IDT	IDT7203L15J	
K1	SN GEPOLT 2XUM 12V MONOST RELAY	1085.1784.00	MATSUSHITA	TQ2SA-12V	
L1	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L2	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L3	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L4	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L5	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L6 ..9	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L10	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
N1	BO OPO7CS8 OPAMP OPERATIONAL AMPLIFIER	0007.7781.00	LINEAR_TEC	LT1001(CS8)	
N2	BO AD810AR CF OPAMP IC OPAMP	2013.8943.00	ANALOG_DEV	AD810AR	
N3	BO AD810AR CF OPAMP IC OPAMP	2013.8943.00	ANALOG_DEV	AD810AR	
P1	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P2	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P3	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P5	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P6	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P7	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	ROEDERSTEI	D25	
R2	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R3	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R4	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R5	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R6	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	ROEDERSTEI	D25	
R7	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R8	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R9	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R10	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R11	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R12	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R13	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	

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R14	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R15	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R16	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R17	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R18	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..23 R24	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R25	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..34 R35	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R36	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R37	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R38	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R39	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..45 R46	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	ROEDERSTEI	D25	
R47	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..55 R56	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R57	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	ROEDERSTEI	D25	
R58	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R59	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R60	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
..67 R68	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R69	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
..77 R78	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R79	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R80	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R81	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R82	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
..89 R90	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	ROEDERSTEI	D25	
R91	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
..98 R99	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R100	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
..141 R142	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
..148 R149	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R150	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	ROEDERSTEI	D25	
R151	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R152	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R153	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R154	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R155	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
..160 R161	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
..165					

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R166	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R167	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
..170	RG CHIP RESISTOR				
R171	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R172	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R173	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R174	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R175	RG CHIP RESISTOR				
R175	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R176	RG CHIP RESISTOR				
R176	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R177	RG CHIP RESISTOR				
R177	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R178	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R179	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R180	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R181	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R182	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R183	CHIP RESISTOR				
R183	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R184	RG 4,75KOHM+-1%TK100 1206	RG 0007.5820.00	ROEDERSTEI	D25	
R185	RESISTOR CHIP				
R185	RG 100 OHM+-1%TK100 1206	RG 0006.8884.00	PHILIPS_CO	RC02	
..187	CHIP RESISTOR				
R188	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R189	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R190	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R191	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R192	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R193	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R194	RG CHIP RESISTOR				
R194	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R195	RG CHIP RESISTOR				
R195	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R196	CHIP RESISTOR				
R196	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R197	CHIP RESISTOR				
R197	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R198	CHIP RESISTOR				
R198	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R199	CHIP RESISTOR				
R199	RG 33,2 OHM+-1%TK100 1206	RG 0007.5520.00	ROEDERSTEI	D25	
..206	RESISTOR CHIP				
R207	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R208	RG 33,2 OHM+-1%TK100 1206	RG 0007.5520.00	ROEDERSTEI	D25	
..210	RESISTOR CHIP				
R211	RG 5,11KOHM+-1%TK100 1206	RG 0007.0729.00	ROEDERSTEI	D25	
R212	CHIP RESISTOR				
R212	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R213	RG CHIP RESISTOR				
R213	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R214	RG CHIP RESISTOR				
R214	RG 5,11KOHM+-1%TK100 1206	RG 0007.0729.00	ROEDERSTEI	D25	
R215	CHIP RESISTOR				
R215	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R216	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R217	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R218	RG CHIP RESISTOR				
R218	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R218	CHIP RESISTOR				

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R219 ..226	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	ROEDERSTEI	D25	
R227	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R228	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R229	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R230	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R231	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R232 ..234	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R235	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R236 ..240	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R241	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R242	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R243	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R244	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R245	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R246	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R247	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R248	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R249	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R250	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R251 ..260	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R261	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R262 ..264	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R265 ..271	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R272	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R273	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R274	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R275	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R276	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R277 ..279	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R280 ..282	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R283	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R284 ..289	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R290	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R291	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R292	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R293 ..296	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R297	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R298	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R299 ..302	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R303 ..308 R309	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5820.00 RG 0007.5108.00	ROEDERSTEI DRALORIC	D25 CR 1206	
R310	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R311	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R312	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R313	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R314	RG 30,1 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5514.00	ROEDERSTEI	D25	
R315	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R316	RG 30,1 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5514.00	ROEDERSTEI	D25	
R317 ..319 R320	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	RG 0007.0793.00 0009.9030.00	PHILIPS_CO DRALORIC	RC02 CR 0603	
R321	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R322	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R323	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R324	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R325 ..327 R328	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.5743.00 RG 0007.0793.00	ROEDERSTEI PHILIPS_CO	D25 RC02	
R329	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R330	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R331	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R332 ..334 R335	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	RG 0006.7271.00 0009.9030.00	PHILIPS_CO DRALORIC	RC02 CR 0603	
R338 ..338 R339	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R340 ..349 R350	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	0009.9030.00 RG 0007.0793.00	DRALORIC PHILIPS_CO	CR 0603 RC02	
R351 ..360 R361	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	0009.9030.00 RG 0007.0793.00	DRALORIC PHILIPS_CO	CR 0603 RC02	
R362	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R363	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R364	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R365	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R366	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R367	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R368	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R369	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R370	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R371	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R372	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R373	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R374	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R375	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
..378	RG CHIP RESISTOR				
R379	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R380	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
..383	RG CHIP RESISTOR				
R384	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	ROEDERSTEI	D25	
R385	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R386	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
V1	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V2	AK BCP69-25 P 20V TRANS TRANSISTOR	0008.2002.00	PHILIPS	BCP 69-16 (25)	
V3	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V4	AD BAV99 70V DUO UDI	AD 0911.0092.00	VALVO	BAV99	
..7	DIODE				
V8	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V9	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V10	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V11	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
X1	FP STECKERLEISTE 50P.R=2 CONNECTOR	FP 6047.8835.00	BERG_ELEKT	86964141	
X2	FP STECKERLEISTE 50P.R=2 CONNECTOR	FP 6047.8835.00	BERG_ELEKT	86964141	
X3	FP STIFTLAISTE 2P.R=2 CONNECTOR	FP 1065.8931.00	SAMTEC	TMM-102-03-S-S	
X4	FP STIFTLAISTE 2P.R=2 CONNECTOR	FP 1065.8931.00	SAMTEC	TMM-102-03-S-S	
X5	FP STIFTLAISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X6	FP STIFTLAISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X7	FP STIFTLAISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X8	FP STIFTLAISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X9	FP STECKERLEISTE 10POL. CONNECTOR 10P	FP 6040.4611.00			
X10	FP BUCHSENLEISTE 50P.R=2 CONNECTOR 50P	FP 4037.2125.00	BERG_ELEKT	87173-150	
..12	CONNECTOR 50P				
X21	FP STIFTLAISTE 20P.2REIH. CONNECTOR 20P	FP 0520.6521.00	BINDER	11-0209-00-20	
..24	CONNECTOR 20P				
X30	FP STIFTLAISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X61	FP STECKERLEISTE 96POL. CONNECTOR 96P	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X62	FP STECKERLEISTE 96POL. CONNECTOR 96P	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X601	FJ EINBAUSTECKER F.GS SMB ANGLE CONNECTOR	FJ 0602.8804.00	IMS	81.1524.201	
Z1	LD PI-FILTER 10GHZ SMD SMD-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	


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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC_MODEL VARO4=NUR A/D-WANDLER MODO4=A/D CONVERTER ONLY				
C1 ..3	CE 10UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	0010.7914.00	PANASONIC	EEV-HB1C100R	
C4 ..10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C14 ..22	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
D2	HS FPGA D2 NUR VAR/ONLY MOD: 02	1051.2888.00			
D3	BL 74ACT86SC 4X 2IN-EXOR QUAD 2-INPUT EXOR GATE NUR VAR/ONLY MOD: 04	BL 2005.4307.00	HARRIS	(CD74)ACT86(M)	
D4	BJ CXD1171M 1X8B-DAC IC DAC NUR VAR/ONLY MOD: 02	1051.5629.00	HARRIS	HI1171JCB	
D6	BJ AD9040AJR 1X10B-ADC ICS AMPLING ADC	1065.8719.00	ANALOG_DEV	AD9040AJR	
R1	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R2	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R3	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R4	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R5	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
..21					
R22	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R23	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R25	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R27	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	ROEDERSTEI	D25	
R28	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5772.00	ROEDERSTEI	D25	
R29	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R30	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R32	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	ROEDERSTEI	D25	
R33	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R35	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	ROEDERSTEI	D25	
R36	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R38	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R40	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R41	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R51	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R52	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 02	RG 0007.5108.00	DRALORIC	CR 1206	
R53	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
R54	RG 2,49KOH+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.8133.00	PHILIPS_CO	MPC 01	
R55	RG 2,49KOH+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.8133.00	PHILIPS_CO	MPC 01	

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R58	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R59	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R60	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R69	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R73	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R74	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R75	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
..82	RG CHIP RESISTOR				
R85	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R86	NUR VAR/ONLY MOD: 04 RG 75,0KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1919.00	ROEDERSTEI	D25	
X21 ..24	FP BUCHSENLEISTE 20POL. SOCKET CONNECTOR	FP 0580.9291.00	BERG_ELEKT	76325-...	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR 02 = GRUNDAUSFUEHRUNG MOD 02 = BASIC MODEL VAR 03 = 128KX8 SRAM MOD 03 = 128KX8 SRAM VAR 04 = 66MHZ MOD 04 = 66MHZ				
C1 ..3	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C4	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	KEMET	T491D106K025AS	
C5	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	KEMET	T491D106K025AS	
C6	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C7	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C8	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	KEMET	T 491 B105 K025 AS	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C12	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C14	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C60 ..62	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
D1	BC DSP56002FC40FIX24B DSP DIGITAL SIGNAL PROCESSOR NUR VAR/ONLY MOD: 02 03	0009.2606.00	MOTOROLA	DSP56002FC40	
D1	BC DSP56002FC66FIX24B DSP IC DIG SIGN PROCESSOR NUR VAR/ONLY MOD: 04	0009.9881.00	MOTOROLA	DSP56002FC66	
D11	FR PLCC-FASSG.32P.IN SMT PLCC-SOCKET 32P	FR 0008.1906.00	E-TEC	PLS-032-H105-00/4R	
D12	BL PC74HCT00T 4X2IN.NAND NAND GATE	BL 0007.6156.00	PHILIPS_SE	(PC)74HCT00D(T)	
D200	BC KM681001J-20 SRAM MEMORY NUR VAR/ONLY MOD: 03	0008.9594.00	INTEGRATED	IS61C1024-20K	
D201	BC TC55328J-25 32KX8 SRAM RAM 32KX8 25NS NUR VAR/ONLY MOD: 02	0008.1064.00	MOTOROLA	MCM6206CJ(D)25	
D201	BC MCM6206DJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	MOTOROLA	MCM6206DJ12	
D300	BC KM681001J-20 SRAM MEMORY NUR VAR/ONLY MOD: 03	0008.9594.00	INTEGRATED	IS61C1024-20K	
D301	BC TC55328J-25 32KX8 SRAM RAM 32KX8 25NS NUR VAR/ONLY MOD: 02	0008.1064.00	MOTOROLA	MCM6206CJ(D)25	
D301	BC MCM6206DJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	MOTOROLA	MCM6206DJ12	
D400	BC KM681001J-20 SRAM MEMORY NUR VAR/ONLY MOD: 03	0008.9594.00	INTEGRATED	IS61C1024-20K	
D401	BC TC55328J-25 32KX8 SRAM RAM 32KX8 25NS NUR VAR/ONLY MOD: 02	0008.1064.00	MOTOROLA	MCM6206CJ(D)25	
D401	BC MCM6206DJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	MOTOROLA	MCM6206DJ12	
R1 ..10	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R11	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R12 ..14	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R15 ..18	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R20	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	

1ESK	510 3PU-D	Äl	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	ROHDE & SCHWARZ	06	16.02.98	ED DSP56002-MODUL DSP56002-MODUL	4037.2102.01 SA	1+

095.0026-0693

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Kanz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R21	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R22	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R23	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R24	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
X1	FP BUCHSENLEISTE 50P.R=2 CONNECTOR 50P	FP 4037.2125.00	BERG_ELEKT	87173-150	
X2	FP BUCHSENLEISTE 50P.R=2 CONNECTOR 50P	FP 4037.2125.00	BERG_ELEKT	87173-150	

1ESK	510 3PU-D	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	06	16.02.98	ED DSP56002-MODUL DSP56002-MODUL	4037.2102.01 SA	2-	

XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

Part: Bauelement-Kennzeichen.

Side: Leiterplatten-Seite, auf der sich das Bauelement befindet.

X/Y: Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.

SQR, PG: Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

Part: Identification of instrument part.

Side: Side of the PC board on which instrument part is positioned.

X/Y: Coordinates (millimeter) of the component on the PC board in reference to zero point.

SQR, PG: Square and page of the diagram for the respective instrument part.



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D19	B	60	50	8B	12	P6	B	39	128	4B	10	X23	B	267	48	4C	5
D20	B	34	112	2B	10	P7	B	42	128	4B	10	X24	B	253	33	5C	5
D20	B	34	112	2F	10	X10	B	14	125	2A	11	X30	B	13	107	8C	7
P1	B	149	123	3D	13	X11	B	63	120	4A	11	X61	B	132	11	7A	3
P2	B	65	30	6C	12	X12	B	20	72	7A	11	X62	B	262	11	7C	3
P3	B	63	30	6C	12	X21	B	239	122	4B	5	X601	B	230	123	1E	2
P5	B	37	128	4B	10	X22	B	218	53	5B	5						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
A61	B	88	99	5A	13	C39	A	200	103	2A	6	C79	B	138	123	7F	10
A62	B	241	113	4B	5	C40	A	204	98	3A	6	C80	A	170	133	2F	10
C1	A	137	30	3B	3	C41	A	176	104	3A	6	C81	A	121	136	3F	10
C2	B	223	58	4B	3	C42	A	175	93	3A	6	C82	B	138	106	4F	10
C3	A	232	68	5B	3	C43	A	120	75	6A	6	C83	A	163	129	4F	10
C4	A	238	64	4B	3	C44	A	259	97	4E	5	C84	A	163	109	5F	10
C5	A	41	16	2A	3	C45	A	120	86	6A	6	C85	A	148	100	5F	10
C6	B	26	20	3A	3	C46	A	128	90	6A	6	C86	B	145	124	6F	10
C7	B	139	17	2A	3	C47	A	138	90	6A	6	C87	A	127	106	6F	10
C8	B	26	11	3A	3	C48	A	149	89	6A	6	C88	A	89	64	1F	9
C9	B	127	32	3A	3	C49	A	149	68	6A	6	C89	A	80	92	5F	9
C10	A	44	30	3A	3	C50	A	149	58	6A	6	C90	A	132	74	7E	9
C11	A	47	30	4A	3	C51	A	243	83	4F	5	C91	A	174	60	7E	9
C12	A	140	30	2C	3	C52	A	246	93	3E	5	C92	A	181	104	8E	9
C13	B	142	30	2C	3	C53	A	248	87	3F	5	C93	A	180	89	8E	9
C14	A	144	30	1C	3	C54	A	263	92	4E	5	C94	A	197	50	9E	9
C15	B	224	65	3C	3	C55	A	266	87	4F	5	C95	A	164	70	9E	9
C16	A	220	64	4C	3	C56	A	193	65	6E	5	C96	A	148	42	9E	9
C17	A	220	67	4C	3	C57	A	171	43	6E	5	C97	A	194	89	10E	9
C18	A	161	30	3D	3	C58	B	68	124	1F	13	C98	A	197	38	10E	9
C19	B	222	98	4C	3	C59	A	97	104	3F	13	C99	A	100	84	2F	9
C20	A	230	88	5C	3	C60	A	78	101	3F	13	C100	A	128	39	11E	9
C21	A	148	30	2D	3	C61	A	66	101	4F	13	C101	A	182	33	11E	9
C22	A	151	30	1D	3	C62	B	91	123	4F	13	C102	A	76	72	2F	9
C23	B	149	36	2D	3	C63	A	75	105	5F	13	C103	A	198	109	3F	9
C24	A	220	70	4D	3	C64	B	79	123	5F	13	C104	A	179	108	3F	9
C25	B	224	72	3D	3	C65	B	120	116	3D	13	C105	A	143	74	3F	9
C26	A	220	74	4D	3	C66	A	117	138	4D	13	C106	A	130	61	4F	9
C27	B	224	80	3D	3	C67	A	117	135	4D	13	C107	A	114	86	4F	9
C28	A	220	78	4D	3	C68	A	117	133	4D	13	C108	A	86	83	4F	9
C29	B	134	30	2D	3	C69	A	71	123	1F	13	C109	B	29	104	1F	7
C30	A	272	17	3E	3	C70	A	86	123	2F	13	C110	A	42	100	5F	7
C31	A	220	81	4D	3	C71	A	104	123	2F	13	C111	A	34	72	6E	7
C32	A	129	30	2D	3	C72	A	104	108	3F	13	C112	A	29	91	6E	7
C33	A	240	91	3E	5	C73	A	73	30	6F	12	C113	A	47	72	6E	7
C34	A	198	33	6E	5	C74	A	69	60	5F	12	C114	A	47	97	6E	7
C35	A	203	58	6E	5	C75	A	60	46	8D	12	C115	A	53	94	6E	7
C36	A	209	86	2A	6	C76	A	36	65	5F	12	C116	A	28	7	2F	7
C37	A	202	74	2A	6	C77	A	36	36	4F	12	C117	A	30	23	2F	7
C38	A	192	74	2A	6	C78	B	29	113	1F	10	C118	A	18	7	3F	7

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C119	A	32	57	3F	7	D7	A	79	125	8C	13	D30	A	80	65	1F	9
C120	A	25	87	4F	7	D8	A	96	125	2F	13	D30	A	80	65	2B	9
C121	A	45	93	4F	7	D8	A	96	125	8D	13	D30	A	80	65	2E	9
C122	B	259	34	4E	3	D9	A	96	110	3F	13	D30	A	80	65	6A	9
C123	A	45	90	5F	7	D9	A	96	110	8E	13	D31	A	187	100	5E	9
C124	A	155	72	1F	8	D10	A	69	107	1A	13	D31	A	187	100	7E	9
C125	A	96	43	5F	8	D10	A	69	107	2B	13	D32	A	187	86	5D	9
C126	A	96	63	5F	8	D10	A	69	107	2B	13	D32	A	187	86	8E	9
C127	A	121	37	6F	8	D10	A	69	107	2E	13	D33	A	188	50	8D	9
C128	A	143	39	6F	8	D10	A	69	107	5F	13	D33	A	188	50	8E	9
C129	A	203	91	7F	8	D10	A	69	107	8F	13	D34	A	139	42	8B	9
C130	A	107	66	7F	8	D10	A	69	107	9D	13	D34	A	139	42	9E	9
C131	A	141	61	8F	8	D11	B	83	125	10D	13	D35	A	199	86	10E	9
C132	A	155	86	1F	8	D11	B	83	125	11D	13	D35	A	199	86	8A	9
C133	A	103	49	2F	8	D11	B	83	125	5F	13	D36	A	161	73	9A	9
C134	B	103	34	2F	8	D12	B	90	104	3F	13	D36	A	161	73	9E	9
C135	A	192	109	3F	8	D12	B	90	104	8B	13	D37	A	188	37	10E	9
C136	A	172	108	3F	8	D13	B	75	104	3F	13	D37	A	188	37	9D	9
C137	A	201	130	4F	8	D13	B	75	104	9B	13	D38	A	123	42	10E	9
C138	A	103	82	4F	8	D14	B	104	104	11B	13	D38	A	123	42	9B	9
C139	A	95	67	4F	8	D14	B	104	104	4F	13	D39	A	177	37	11D	9
C140	B	269	42	4F	3	D15	B	97	125	10C	13	D39	A	177	37	11E	9
C141	A	88	105	5F	13	D15	B	97	125	4F	13	D40	A	125	64	4F	9
C142	B	155	51	5E	5	D16	A	76	57	10B	12	D40	A	125	64	7A	9
C143	B	208	67	5E	5	D16	A	76	57	6E	12	D40	A	125	64	7B	9
C144	B	149	137	6F	13	D17	A	68	33	10A	12	D40	A	125	64	7C	9
C145	B	15	66	4F	12	D17	A	68	33	6E	12	D40	A	125	64	9A	9
C146	A	165	86	12E	9	D18	B	51	50	3A	12	D41	B	70	84	2B	9
C147	B	164	30	5F	9	D18	B	51	50	4E	12	D41	B	70	84	5F	9
C148	B	190	131	5F	9	D21	B	142	126	2D	10	D42	A	105	87	4C	9
C149	B	149	100	6F	9	D21	B	142	126	2D	10	D42	A	105	87	4F	9
C150	B	57	105	6F	9	D21	B	142	126	2E	10	D43	A	94	87	1F	9
C151	B	107	95	7F	7	D21	B	142	126	7A	10	D43	A	94	87	2C	9
C152	B	95	34	7F	7	D21	B	142	126	7F	10	D43	A	94	87	2C	9
C153	B	168	123	8F	8	D22	B	185	128	2F	10	D43	A	94	87	3B	9
C154	B	167	105	8F	8	D22	B	185	128	5A	10	D43	A	94	87	4B	9
C155	B	15	111	7F	10	D23	B	113	134	3F	10	D44	A	70	77	2F	9
C156	B	79	99	8F	10	D23	B	113	134	5C	10	D44	A	70	77	3B	9
C157	A	262	83	4F	5	D24	B	142	109	10A	10	D45	A	125	77	5A	9
C158	B	226	88	2E	5	D24	B	142	109	4F	10	D45	A	125	77	6E	9
C159	B	219	90	2A	5	D24	B	142	109	8A	10	D46	A	194	111	2F	9
C160	A	-20	-22	8E	13	D24	B	142	109	8A	10	D46	A	194	111	3D	9
D2	B	202	36	10B	5	D25	B	162	125	4F	10	D47	A	173	110	3F	9
D2	B	202	36	6E	5	D25	B	162	125	6B	10	D47	A	173	110	4D	9
D2	B	202	36	7B	5	D25	B	162	125	6C	10	D48	A	137	77	2E	9
D3	B	175	88	2D	6	D26	B	162	104	5F	10	D48	A	137	77	3F	9
D4	B	135	61	5D	6	D26	B	162	104	8B	10	D48	A	137	77	6B	9
D5	B	72	126	1F	13	D26	B	162	104	8C	10	D48	A	137	77	6B	9
D5	B	72	126	2C	13	D27	A	134	124	10B	10	D48	A	137	77	9B	9
D5	B	72	126	7E	13	D27	A	134	124	6F	10	D49	A	183	58	5B	9
D5	B	72	126	7E	13	D28	A	134	107	10C	10	D49	A	183	58	7E	9
D5	B	72	126	7F	13	D28	A	134	107	6F	10	D50	A	26	103	10D	7
D6	A	66	125	1F	13	D29	A	114	107	10D	10	D50	A	26	103	1B	7
D6	A	66	125	3C	13	D29	A	114	107	6F	10	D50	A	26	103	1E	7
D7	A	79	125	2F	13	D30	A	80	65	1E	9	D50	A	26	103	2A	7

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		03 19.06.97	EE DIGITAL_DOWN_CONVERTER	1051.2407.01 XY	2+



Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D50	A	26	103	3B	7	D66	A	193	91	11C	8	R10	A	217	91	4D	3
D51	A	34	90	10B	7	D66	A	193	91	11C	8	R11	B	266	39	3E	3
D51	A	34	90	10C	7	D66	A	193	91	11C	8	R12	A	266	20	3E	3
D51	A	34	90	10C	7	D66	A	193	91	7F	8	R13	B	248	84	2C	5
D51	A	34	90	10D	7	D67	A	110	43	5F	8	R14	B	262	81	1D	5
D51	A	34	90	4E	7	D67	A	110	43	8B	8	R15	B	226	101	1B	5
D52	A	13	10	1A	7	D68	A	110	63	5F	8	R16	B	264	84	2D	5
D52	A	13	10	1A	7	D68	A	110	63	8C	8	R17	B	229	79	1E	5
D52	A	13	10	1B	7	D69	B	169	72	1F	8	R18	A	224	36	5C	5
D52	A	13	10	3D	7	D69	B	169	72	2B	8	R19	B	223	36	5C	5
D52	A	13	10	3E	7	D70	B	110	36	2F	8	R20	A	224	38	5C	5
D53	A	23	10	2D	7	D70	B	110	36	3A	8	R21	B	223	38	5C	5
D53	A	23	10	2E	7	D71	B	110	51	2F	8	R22	A	224	41	5C	5
D54	A	38	103	2C	7	D71	B	110	51	3B	8	R23	B	223	41	5C	5
D54	A	38	103	3A	7	D72	B	202	111	3F	8	R24	B	216	87	2A	5
D54	A	38	103	3B	7	D72	B	202	111	4A	8	R25	A	224	43	6C	5
D54	A	38	103	3C	7	D73	B	181	109	3F	8	R26	B	223	43	6C	5
D54	A	38	103	5E	7	D73	B	181	109	4B	8	R27	A	224	46	6C	5
D55	A	20	22	1C	7	D74	B	208	129	4C	8	R28	B	223	46	6C	5
D55	A	20	22	1C	7	D74	B	208	129	4F	8	R29	A	224	48	6C	5
D55	A	20	22	1C	7	D75	B	110	80	4F	8	R30	B	223	48	6C	5
D55	A	20	22	2E	7	D75	B	110	80	5A	8	R31	A	224	51	6C	5
D55	A	20	22	3C	7	D76	B	110	66	5B	8	R32	B	223	51	6C	5
D55	A	20	22	3D	7	D76	B	110	66	5F	8	R33	A	224	53	6C	5
D55	A	20	22	7B	7	D77	A	161	88	11B	9	R34	B	223	53	6C	5
D56	A	40	53	3E	7	D77	A	161	88	11B	9	R35	B	237	104	2C	5
D56	A	40	53	4D	7	D77	A	161	88	11E	9	R36	B	231	88	2E	5
D57	A	54	86	4A	7	K1	B	232	115	2B	5	R37	B	18	105	7B	11
D57	A	54	86	4E	7	K1	B	232	115	2B	5	R38	A	20	65	3D	12
D58	A	38	86	4B	7	K1	B	232	115	3A	5	R39	B	235	35	5D	5
D58	A	38	86	5E	7	L1	A	136	37	3B	3	R40	A	235	36	5D	5
D59	A	83	107	2A	13	L2	A	240	58	4B	3	R41	B	237	35	5D	5
D59	A	83	107	5F	13	L3	A	144	33	3C	3	R42	A	237	36	5D	5
D59	A	83	107	6F	13	L4	A	140	33	3C	3	R43	B	240	35	5D	5
D60	B	29	85	6E	7	L5	A	154	30	3C	3	R44	A	240	36	5D	5
D60	B	29	85	8A	7	L6	A	152	33	3D	3	R45	B	243	35	6D	5
D61	B	169	86	1F	8	L7	A	148	33	3D	3	R46	B	245	88	2C	5
D61	B	169	86	2A	8	L8	A	130	33	3D	3	R47	A	243	36	6D	5
D62	B	131	39	10C	8	L9	A	126	33	3D	3	R48	B	245	35	6D	5
D62	B	131	39	6F	8	L10	A	244	58	4B	3	R49	A	245	36	6D	5
D63	B	147	39	10B	8	N1	B	267	33	3E	3	R50	B	253	35	6D	5
D63	B	147	39	6F	8	N1	B	267	33	4E	3	R51	A	248	36	6D	5
D64	A	102	69	11B	8	N2	B	239	87	2C	5	R52	A	250	36	6D	5
D64	A	102	69	11B	8	N2	B	239	87	3E	5	R53	B	250	35	6D	5
D64	A	102	69	2C	8	N3	B	256	87	2D	5	R54	A	253	36	6D	5
D64	A	102	69	2D	8	N3	B	256	87	4E	5	R55	B	248	35	6D	5
D64	A	102	69	7F	8	R1	A	217	59	3B	3	R56	A	181	65	6E	5
D65	A	137	64	11B	8	R2	B	232	58	3B	3	R57	B	248	91	2C	5
D65	A	137	64	3C	8	R3	A	228	65	4B	3	R58	A	168	62	8B	5
D65	A	137	64	3D	8	R4	A	217	57	3B	3	R59	A	168	60	8B	5
D65	A	137	64	3D	8	R5	A	247	61	4B	3	R60	B	166	65	8B	5
D65	A	137	64	3D	8	R6	A	217	96	3C	3	R61	B	164	65	8B	5
D65	A	137	64	4C	8	R7	A	221	98	3C	3	R62	B	161	67	8B	5
D65	A	137	64	8F	8	R8	A	226	91	4C	3	R63	B	161	65	8B	5
D66	A	193	91	11B	8	R9	A	217	93	4D	3	R64	B	161	63	8B	5



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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R65	B	161	61	8B	5	R120	B	127	95	7D	6	R175	A	91	137	10C	13
R66	B	161	59	8B	5	R121	B	125	95	7D	6	R176	A	93	137	10C	13
R67	B	161	57	8C	5	R122	B	123	95	7D	6	R177	B	93	140	10C	13
R68	B	245	81	1C	5	R123	B	121	95	7D	6	R178	B	90	140	10C	13
R69	B	161	55	8C	5	R124	B	115	91	7D	6	R179	B	103	127	11C	13
R70	B	161	53	8C	5	R125	B	115	90	7D	6	R180	B	103	130	11C	13
R71	B	161	51	8C	5	R126	B	115	88	8D	6	R181	B	83	137	11D	13
R72	B	161	50	8C	5	R127	B	115	86	8D	6	R182	B	120	114	3D	13
R73	B	161	48	8C	5	R128	B	115	84	8D	6	R183	B	85	137	11E	13
R74	B	161	46	8C	5	R129	B	115	82	8D	6	R184	A	85	137	12E	13
R75	B	161	44	8C	5	R130	B	113	59	7B	6	R185	B	77	140	10D	13
R76	B	161	42	8C	5	R131	B	113	61	7B	6	R186	B	80	137	10E	13
R77	B	26	118	2B	10	R132	B	113	63	7B	6	R187	B	75	140	10D	13
R78	B	51	117	2A	11	R133	B	113	65	7B	6	R188	A	131	138	4C	13
R79	B	258	96	2D	5	R134	B	113	67	7B	6	R189	A	131	135	4C	13
R80	A	79	27	10A	12	R135	B	113	69	7B	6	R190	B	104	134	4E	13
R81	A	77	27	10B	12	R136	B	113	70	7B	6	R191	B	95	137	4E	13
R82	B	161	40	8C	5	R137	B	113	72	7B	6	R192	B	101	134	4E	13
R83	B	161	38	8C	5	R138	B	113	74	8B	6	R193	B	61	128	2D	13
R84	B	161	36	8C	5	R139	B	113	76	8B	6	R194	B	48	28	3C	12
R85	B	161	34	8C	5	R140	B	113	78	8B	6	R195	B	45	28	3B	12
R86	B	161	32	8C	5	R141	B	113	80	8B	6	R196	A	29	57	5C	12
R87	B	161	30	8D	5	R142	A	178	71	1C	6	R197	A	27	57	3C	12
R88	B	161	29	8D	5	R143	A	157	64	5C	6	R198	B	50	28	3C	12
R89	B	142	54	8D	5	R144	A	208	67	2C	6	R199	A	44	57	3D	12
R90	B	262	88	2D	5	R145	A	205	67	2D	6	R200	A	41	57	3D	12
R91	B	140	54	8D	5	R146	A	157	67	5C	6	R201	A	39	57	3D	12
R92	B	138	54	8D	5	R147	A	138	95	5C	6	R202	B	17	61	4A	12
R93	B	136	54	8D	5	R148	A	118	55	5D	6	R203	B	17	58	4A	12
R94	B	134	54	8D	5	R149	A	169	68	7B	5	R204	B	17	56	4B	12
R95	B	132	54	8D	5	R150	B	265	91	2D	5	R205	B	17	53	4B	12
R96	B	130	54	8D	5	R151	B	58	90	10D	7	R206	B	17	51	4B	12
R97	B	128	54	8D	5	R152	B	58	92	10D	7	R207	B	17	48	4B	12
R98	B	126	54	8D	5	R153	A	201	65	10B	5	R208	B	17	46	4B	12
R99	B	141	136	2E	10	R154	A	166	65	11C	5	R209	B	17	43	4B	12
R100	B	202	109	4D	6	R155	B	207	108	3D	6	R210	B	17	41	4B	12
R101	B	201	109	4D	6	R156	B	207	110	3D	6	R211	A	28	36	6B	12
R102	B	192	125	4C	6	R157	B	207	112	3D	6	R212	A	44	36	6B	12
R103	B	194	125	4C	6	R158	B	207	117	3D	6	R213	A	22	58	5B	12
R104	B	196	125	4C	6	R159	B	207	119	4D	6	R214	A	56	32	6B	12
R105	B	198	125	4D	6	R160	B	207	121	4D	6	R215	A	72	68	7A	12
R106	B	187	123	3B	6	R161	A	62	143	2C	13	R216	A	74	68	7A	12
R107	B	187	121	3B	6	R162	A	62	128	2B	13	R217	A	77	68	7B	12
R108	B	187	119	3B	6	R163	A	60	128	2C	13	R218	A	69	68	7D	12
R109	B	187	117	3B	6	R164	A	55	128	2D	13	R219	A	84	60	10C	12
R110	B	187	115	4B	6	R165	A	57	128	2C	13	R220	A	84	58	10C	12
R111	B	187	113	4B	6	R166	B	132	104	7E	13	R221	A	84	55	10C	12
R112	B	187	111	4B	6	R167	B	128	104	7E	13	R222	A	84	53	10C	12
R113	B	187	109	4B	6	R168	A	77	141	8C	13	R223	A	84	50	10C	12
R114	B	204	127	4B	6	R169	A	80	141	8C	13	R224	A	84	48	10C	12
R115	B	206	127	4B	6	R170	A	83	141	8C	13	R225	A	84	45	10C	12
R116	B	202	127	4B	6	R171	B	109	137	8E	13	R226	A	84	43	10C	12
R117	B	200	127	4B	6	R172	B	106	137	8E	13	R227	B	23	28	2A	12
R118	B	131	95	7D	6	R173	B	88	140	10C	13	R228	B	28	30	2A	12
R119	B	129	95	7D	6	R174	A	88	137	10C	13	R229	B	30	31	2B	12

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R230	B	25	28	2B	12	R277	A	96	84	2C	9	R324	B	30	17	3D	7
R231	B	54	102	2B	10	R278	A	96	82	2C	9	R325	A	13	51	5D	7
R232	A	153	139	6D	10	R279	A	84	96	2C	9	R326	A	13	48	5D	7
R233	A	153	118	8D	10	R280	A	206	127	2D	9	R327	A	13	46	6D	7
R234	A	163	118	8D	10	R281	A	204	127	2D	9	R328	A	205	139	1A	8
R235	A	177	133	4A	10	R282	A	201	127	2D	9	R329	B	16	118	2B	10
R236	A	175	133	4A	10	R283	B	77	70	2B	9	R330	B	14	118	2C	10
R237	A	180	136	4A	10	R284	A	199	127	2D	9	R331	B	228	117	3B	5
R238	A	122	129	4C	10	R285	A	189	127	2D	9	R339	A	203	139	2A	8
R239	A	124	129	4C	10	R286	A	191	127	3D	9	R350	A	197	139	2A	8
R240	A	119	126	4C	10	R287	A	194	127	3D	9	R361	A	200	139	2A	8
R241	B	141	119	10A	10	R288	A	196	127	3D	9	R364	A	208	139	4D	8
R242	B	54	105	2B	10	R289	A	205	114	2E	9	R365	A	117	42	8A	8
R243	B	54	107	2B	10	R290	A	95	73	1E	9	R366	B	70	28	11D	8
R244	B	50	112	2C	10	R291	B	16	121	2B	10	R367	B	160	100	11D	8
R245	B	14	121	2C	10	R292	A	149	78	2E	9	R368	A	205	89	11D	8
R246	A	51	116	3B	10	R293	B	76	70	2B	9	R369	A	134	67	3D	8
R247	A	37	117	3B	10	R294	B	74	70	2B	9	R370	A	107	79	2D	8
R248	A	41	120	3B	10	R295	B	72	70	2B	9	R375	A	69	101	8F	13
R249	A	163	139	6D	10	R296	B	66	71	2B	9	R376	A	65	143	7F	13
R250	B	87	70	2B	9	R297	A	96	79	4B	9	R377	A	81	101	2A	13
R251	A	76	74	3B	9	R298	A	46	52	4D	7	R378	A	81	98	6E	13
R252	A	129	74	5A	9	R299	A	13	43	6D	7	R379	B	69	99	2C	9
R253	A	174	53	5B	9	R300	A	13	41	6D	7	R380	A	155	92	11B	9
R254	A	194	103	5E	9	R301	A	13	38	6D	7	R381	A	164	104	10B	9
R255	A	209	84	5C	9	R302	A	13	36	6D	7	R382	A	166	104	10B	9
R256	A	197	61	8C	9	R303	A	56	102	8A	7	R383	A	161	104	10B	9
R257	A	153	49	8B	9	R304	A	13	70	8A	7	R384	A	-20	-22	9A	2
R258	A	209	81	8A	9	R305	A	13	95	8C	7	R385	A	-21	-22	8D	13
R259	A	197	47	9C	9	R306	A	13	92	8C	7	V1	A	229	58	4B	3
R260	A	116	51	9B	9	R307	A	13	90	8C	7	V2	B	227	98	4C	3
R261	B	85	70	2B	9	R308	A	13	87	8C	7	V3	B	223	88	2A	5
R262	A	181	74	9A	9	R309	B	30	12	3D	7	V4	B	238	81	1C	5
R263	A	167	29	10C	9	R310	A	13	84	8D	7	V5	A	237	81	1D	5
R264	B	119	97	3A	9	R311	A	13	82	8D	7	V6	B	255	81	1D	5
R265	A	185	127	4E	9	R312	B	17	92	10C	7	V7	A	253	81	1E	5
R266	A	175	127	4E	9	R313	B	17	90	10C	7	V8	B	217	93	2A	5
R267	A	167	127	4E	9	R314	B	17	87	10C	7	V9	B	233	82	2E	5
R268	A	170	127	4E	9	R315	B	17	84	10C	7	V10	B	242	81	1C	5
R269	A	172	127	4E	9	R316	B	17	82	10B	7	V11	B	259	81	1D	5
R270	A	177	127	4D	9	R317	A	16	20	1B	7	X5	B	62	137	2C	13
R271	A	182	127	4D	9	R318	B	29	108	1B	7	X6	B	60	137	2C	13
R272	B	83	70	2B	9	R319	A	16	23	1D	7	X7	B	57	137	2D	13
R273	A	180	127	4D	9	R320	A	13	53	5D	7	X8	B	55	137	2D	13
R274	B	72	99	2C	9	R321	A	32	30	2C	7	X9	B	51	130	3D	13
R275	B	70	99	2C	9	R322	A	56	104	8A	7	Z1	B	39	19	2A	3
R276	A	75	97	2C	9	R323	B	17	95	10D	7						



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Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D2	B	74	41	9C	1	R64	B	26	28	9B	2	X23	B	80	4	9D	2
R26	B	26	22	6E	1	X21	B	6	32	11A	1	X24	B	95	18	11D	1
R42	B	13	28	4B	1	X22	B	75	52	11B	1						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	B	8	4	2E	1	D7	B	28	51	11C	2	R43	A	22	18	3E	1
C2	B	51	25	1E	1	R1	A	45	41	3A	1	R45	A	19	21	3E	1
C3	B	11	18	1E	1	R2	A	50	41	3A	1	R46	A	17	21	3E	1
C4	A	46	43	2D	1	R3	A	10	31	4B	1	R47	A	13	10	5E	1
C5	A	49	10	2D	1	R4	A	41	36	6C	1	R48	A	10	8	5E	1
C6	A	27	13	6E	1	R5	A	57	37	9B	1	R49	A	29	27	9B	2
C7	A	30	3	8F	1	R6	A	65	37	9B	1	R50	A	34	30	9B	2
C8	A	37	17	7F	1	R7	A	63	38	9B	1	R51	A	13	14	11D	1
C9	A	27	10	8E	1	R8	A	60	30	9B	1	R52	A	13	18	11D	1
C10	A	11	36	4C	1	R9	A	69	35	9B	1	R53	A	86	8	9A	1
C11	A	13	8	5F	1	R10	A	62	45	9B	1	R54	A	18	28	4B	1
C12	A	13	4	4F	1	R11	A	69	45	9A	1	R55	A	18	30	4A	1
C13	A	23	4	4E	1	R12	A	72	38	9A	1	R56	A	4	46	5B	1
C14	A	4	42	4B	1	R13	A	77	45	9A	1	R57	A	17	48	7A	1
C15	A	21	45	7B	1	R14	A	84	38	9A	1	R58	A	17	50	7A	1
C16	A	14	43	5B	1	R15	A	81	41	9A	1	R59	A	60	15	10E	1
C17	A	11	51	5A	1	R16	A	93	33	9A	1	R60	A	58	45	9E	1
C18	A	17	43	5A	1	R17	A	83	22	9A	1	R61	A	23	31	9B	2
C19	A	60	26	10E	1	R18	A	85	20	9A	1	R63	A	9	22	10C	2
C20	A	74	12	10E	1	R19	A	92	16	9A	1	R66	A	24	43	10B	2
C21	A	89	27	10E	1	R20	A	76	26	9A	1	R67	A	34	48	12B	2
C22	A	76	41	10D	1	R21	A	81	16	9A	1	R68	A	34	50	11B	2
C23	A	27	36	10D	2	R22	A	53	12	1A	1	R69	A	54	35	3F	1
C24	A	24	41	9B	2	R23	A	53	15	2C	1	R70	A	32	33	11E	2
C25	A	37	45	11B	2	R24	B	54	2	3C	1	R71	A	34	27	11E	2
C26	A	31	43	10C	2	R25	B	51	2	3C	1	R72	A	37	27	11E	2
C27	A	28	51	10B	2	R27	A	30	22	6F	1	R73	A	64	50	11D	2
C28	A	34	43	10B	2	R28	A	27	24	6E	1	R74	A	62	50	11D	2
D1-A	B	50	33	3F	1	R29	A	34	2	6E	1	R75	A	59	50	11D	2
D1-B				3A	1	R30	A	36	2	6E	1	R76	A	57	50	11D	2
D1-C				3A	1	R31	A	36	12	6D	1	R77	A	54	50	11D	2
D1-D				6C	1	R32	A	34	12	6D	1	R78	A	51	50	11D	2
D1-E				2D	1	R33	B	44	19	6D	1	R79	A	48	50	11D	2
D3-A	B	53	12	2B	1	R34	B	41	19	7D	1	R80	A	46	50	11D	2
D3-B				1B	1	R35	A	27	15	6E	1	R81	A	43	50	12D	2
D3-C				1B	1	R36	A	27	8	8E	1	R82	A	41	50	12D	2
D3-D				1A	1	R37	A	30	5	8F	1	R83	A	54	5	9D	2
D3-E				1D	1	R38	A	37	15	7F	1	R84	A	54	3	9D	2
D4	B	37	4	7E	1	R39	B	41	26	5C	1	R85	A	46	38	3A	1
D5	B	23	4	4E	1	R40	B	44	26	5C	1						
D6	B	11	51	6C	1	R41	B	7	35	4C	1						

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Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	A	10	18	7D	1	D12-A	A	5	60	8B	2	R8	A	6	8	3F	1
C2	A	25	3	7D	1	D12-B				7B	2	R9	A	6	51	3C	1
C3	A	36	18	8D	1	D12-C				1A	2	R10	A	27	18	6B	1
C4	B	18	76	2C	1	D12-D				1A	2	R11	A	8	72	8D	2
C5	B	17	48	2C	1	D12-E				2A	2	R12	A	16	76	8D	2
C6	A	39	10	2E	1	D200	B	21	64	2F	2	R13	A	15	73	8D	2
C7	A	22	29	8D	1	D201	B	23	63			R14	A	16	64	8D	2
C8	A	17	10	3D	1	D300	B	21	51	3E	2	R15	A	21	17	4D	1
C11	A	10	50	7C	2	D301	B	23	50			R16	A	25	21	4D	1
C12	A	4	53	3A	2	D400	B	21	38	5D	2	R17	A	31	16	4C	1
C14	A	17	15	2D	1	D401	B	23	36			R18	A	34	3	4C	1
C60	A	26	72	2E	2	G1	B	16	42	2E	1	R20	A	6	2	3F	1
C61	A	23	47	4E	2	R1	A	10	8	3F	1	R21	A	6	18	4E	1
C62	A	26	60	6D	2	R2	A	21	24	3D	1	R22	A	13	13	3D	1
D1	B	9	16	4E	1	R3	A	9	24	4D	1	R23	A	21	74	8D	2
D2	B	23	2	8C	1	R4	A	10	27	4D	1	R24	A	23	69	7C	2
D3	B	36	16	8C	1	R5	A	9	21	4D	1	X1	B	44	58	6D	1
D4	B	23	29	5C	1	R6	A	22	10	5B	1	X2	B	1	1	3B	1
D11	B	10	68	7D	2	R7	A	23	8	5B	1						

ROHDE & SCHWARZ	AI	Datum- Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		03.04.96	ED DSP56002-MODUL DSP56002-MODUL	4037.2102.01 XY	1-

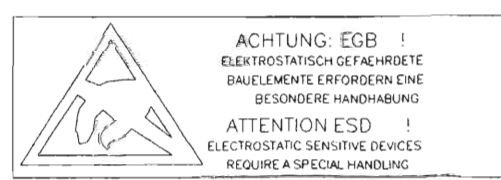
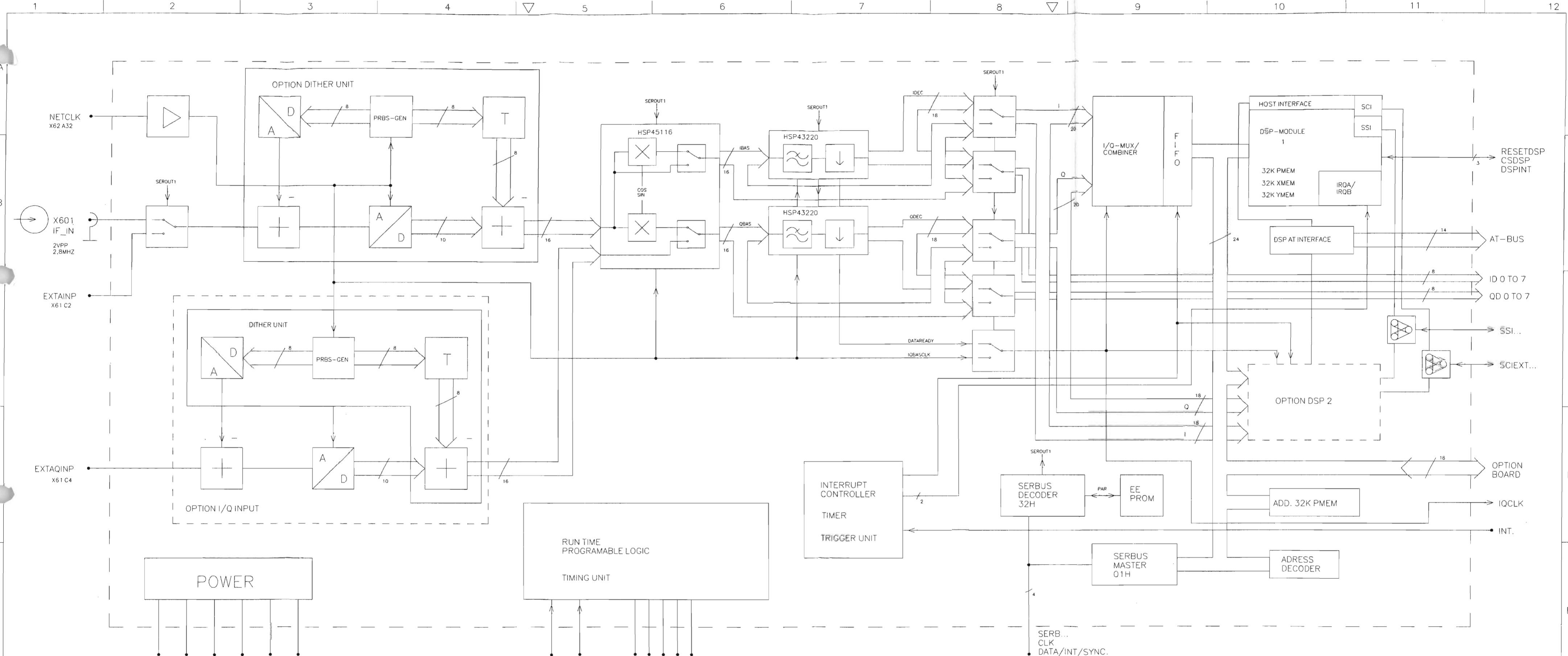




Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants



FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN ÜBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜECKTE BAUTEILE SIEHE SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

15.00				1CMK	DATUM	NAME	BENENNUNG
				BEARB.		NG	DIGITAL_DOWN_CONVERTER
				GEPR.		NG	
				NORM			
				PLOTT	97-11-21	NEUGEBAU	TOP/TOP.1
							ZEICHN.-NR.
							1051.2407.01 S
							BLATT-NR.
							1 +
AEND. IND.	AÄNDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD	REG.I.V.	1050.9008
						ERSTE Z	1050.9008.01

SERBUS_DEC_604

DDC_2910

SWITCH_2738

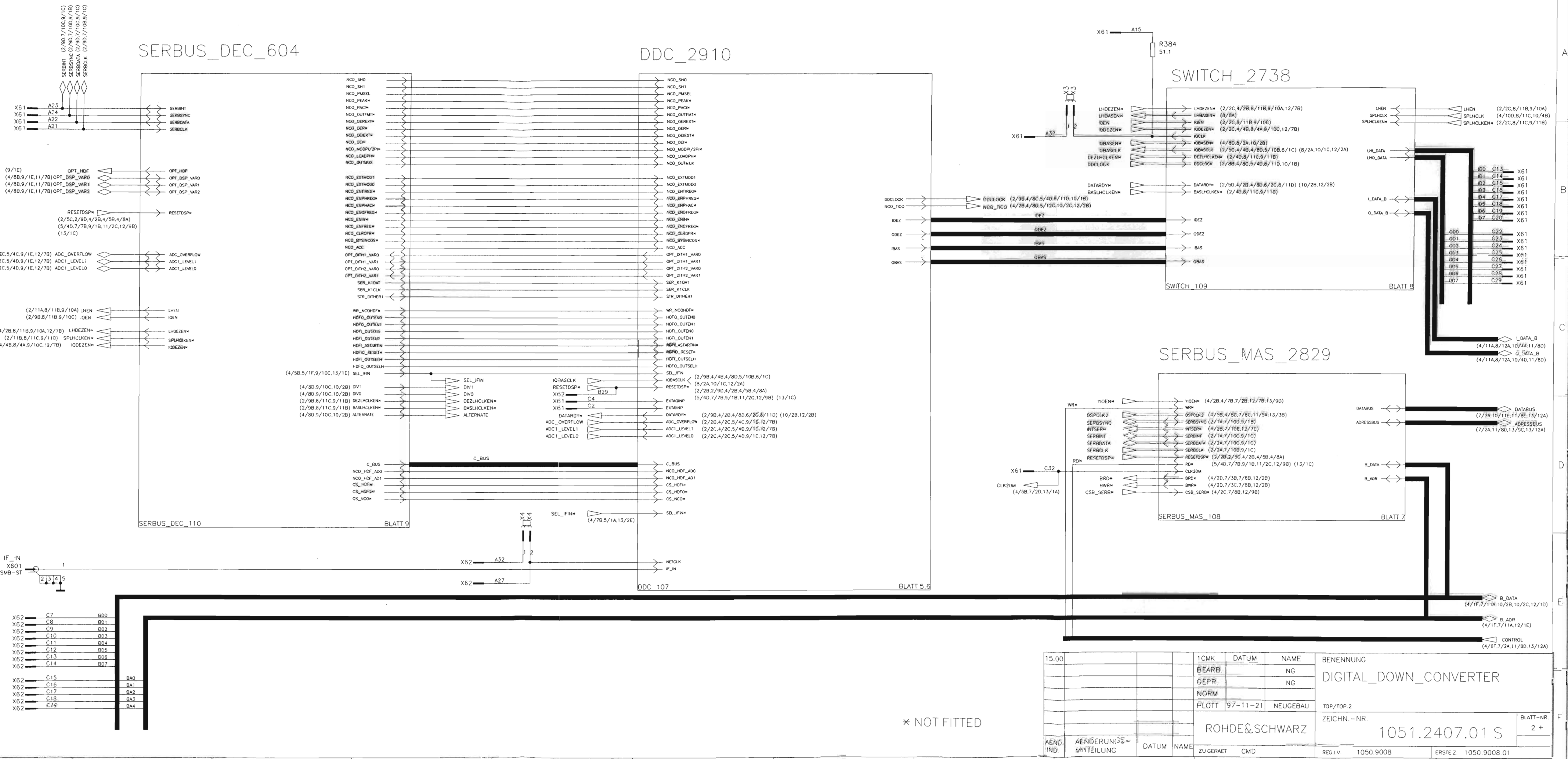
SERBUS_MAS_2829

SERBUS_DEC_110

BLATT 9

BLATT 5,6

BLATT 7

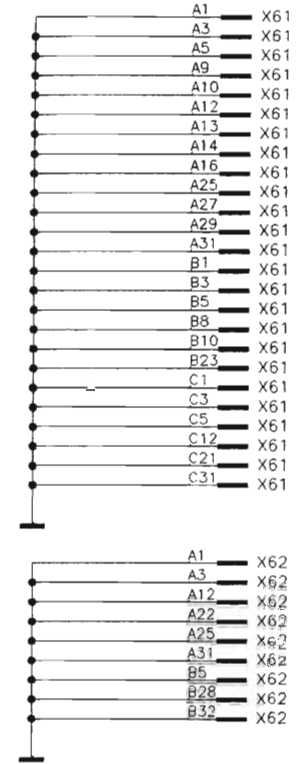
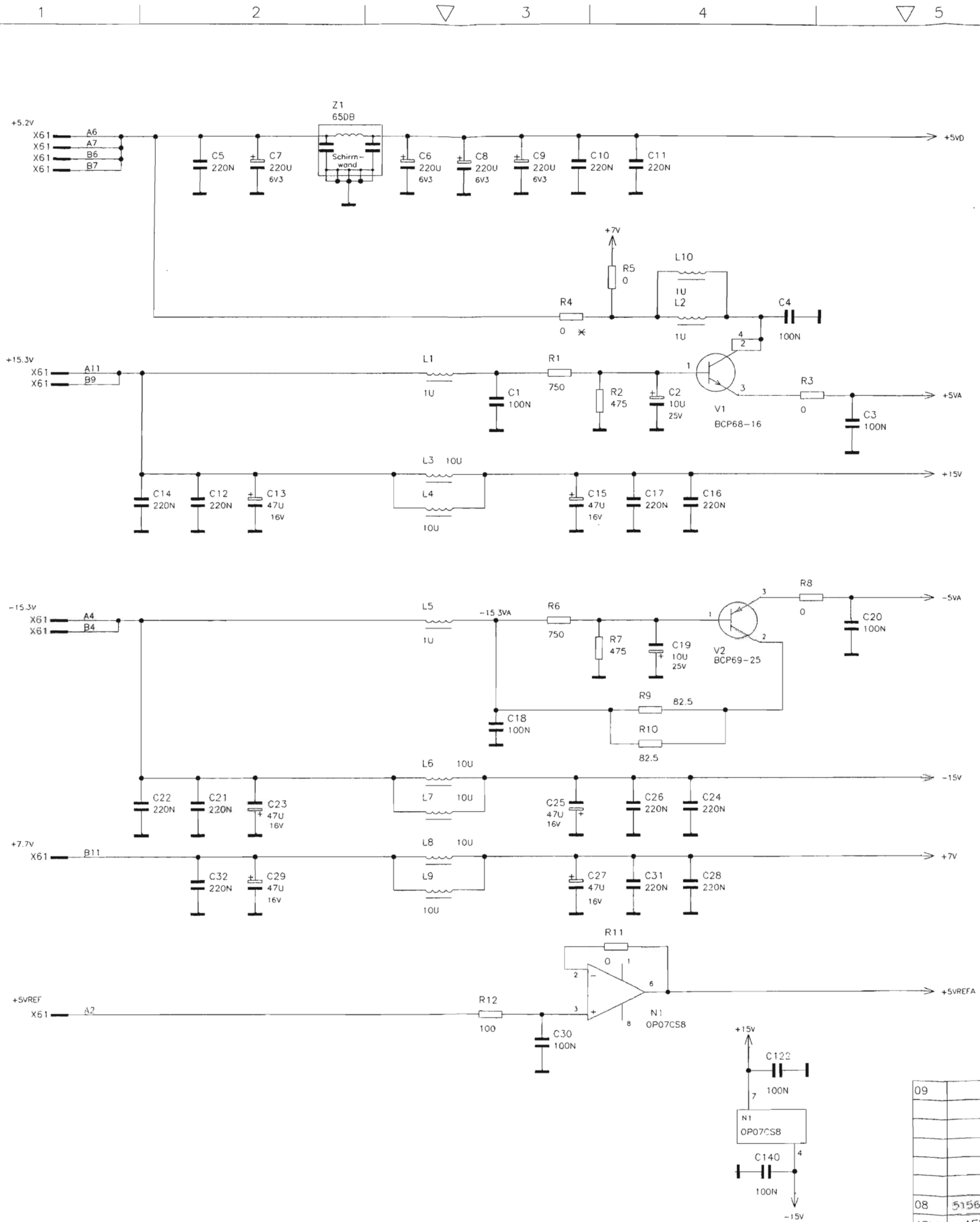


FÜR DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

* NOT FITTED

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			GEPR.		NG		
			NORM				
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			ROHDE&SCHWARZ			ZEICHN.-NR	1051.2407.01 S
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AEND. IND.	AENDERUNGS-ANTIEILUNG	DATUM	NAME	ZU GERÄT	CMD	REG.I.V.	1050.9008
						ERSTE Z	1050 9008 01

BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

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				NORM			
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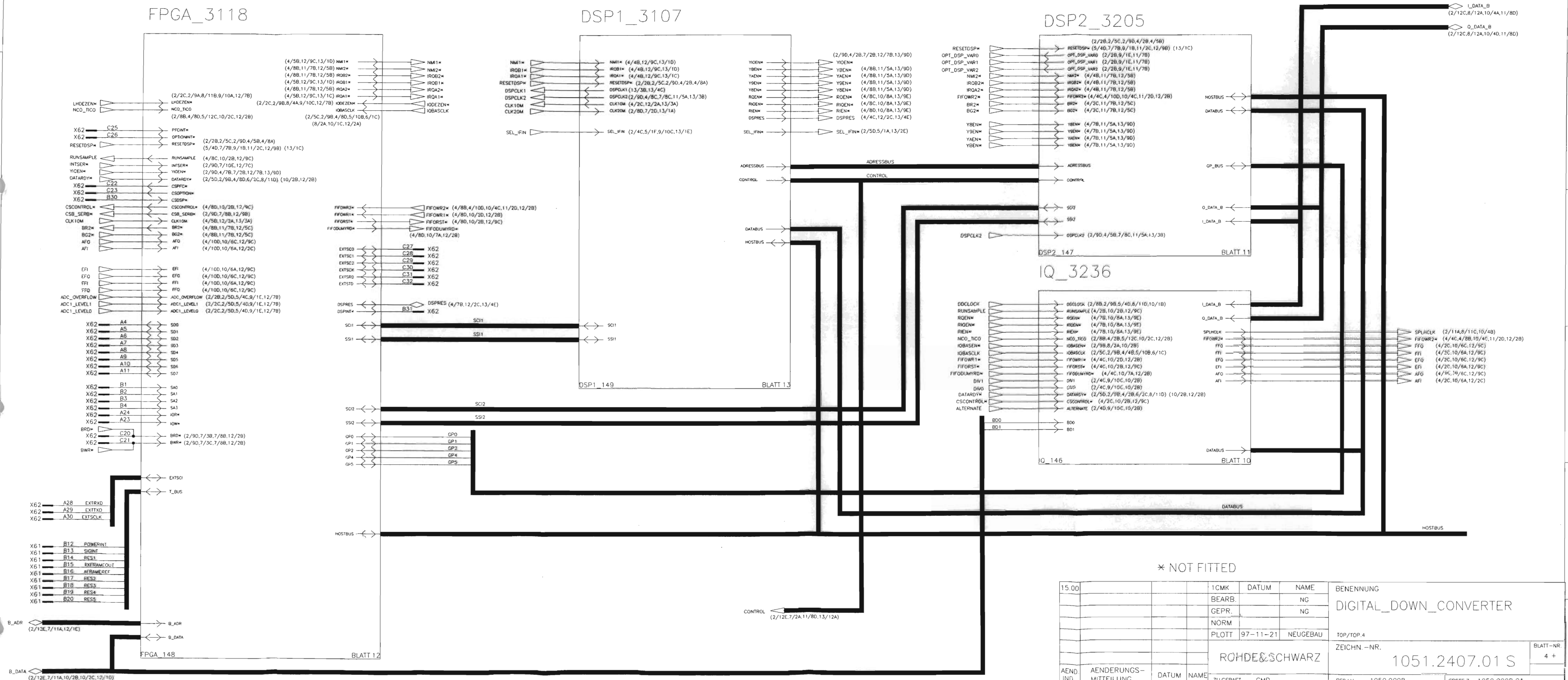
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DSP1_3107

DSP2_3205

IQ_3236

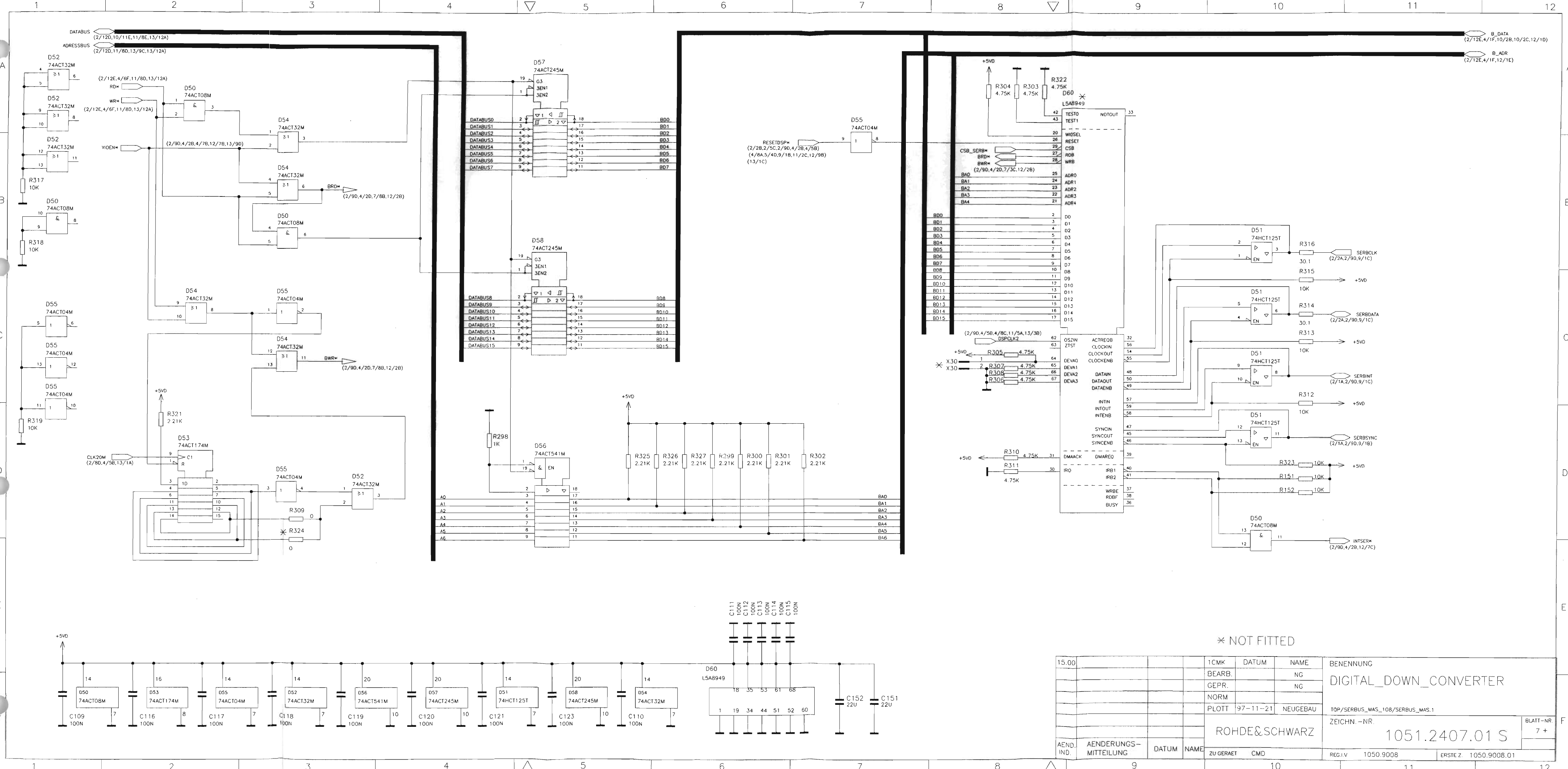
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* NOT FITTED

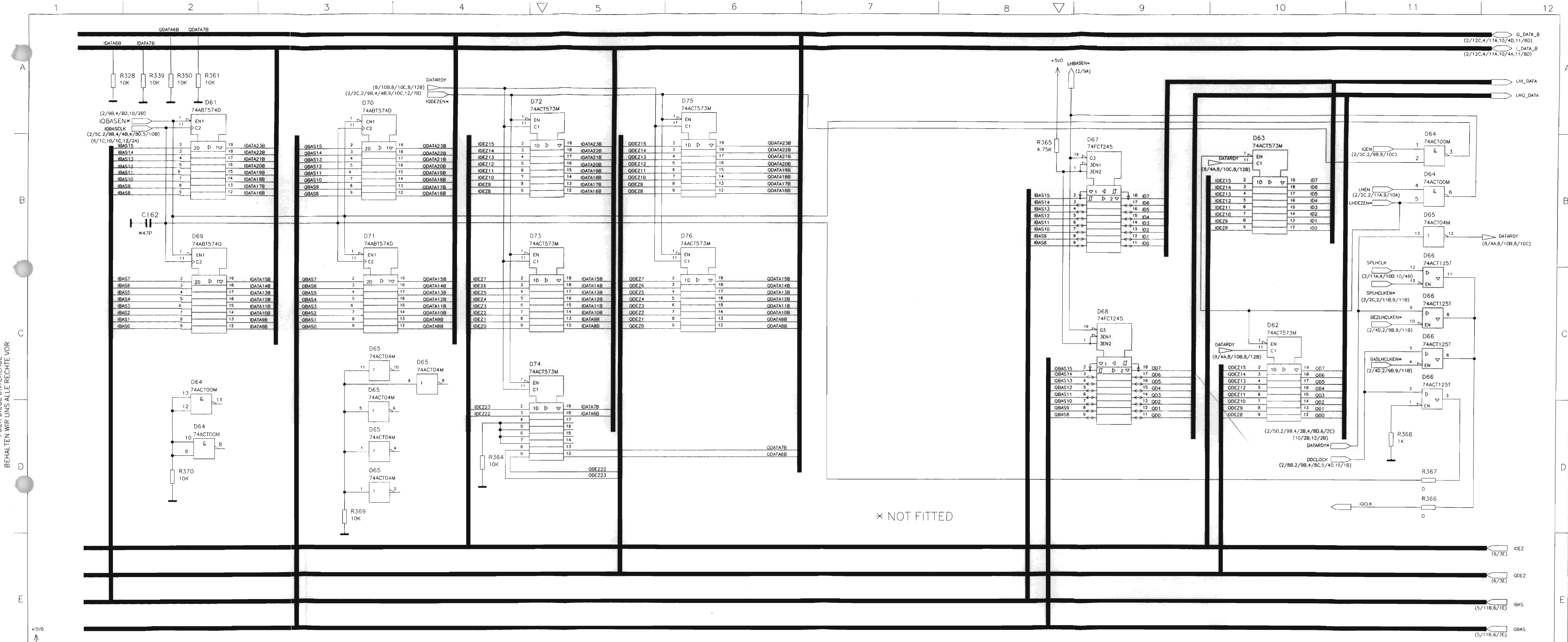
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FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

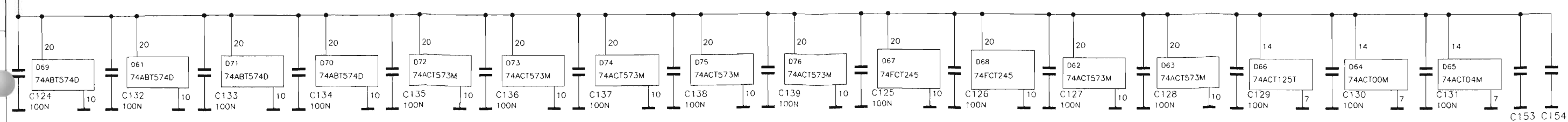


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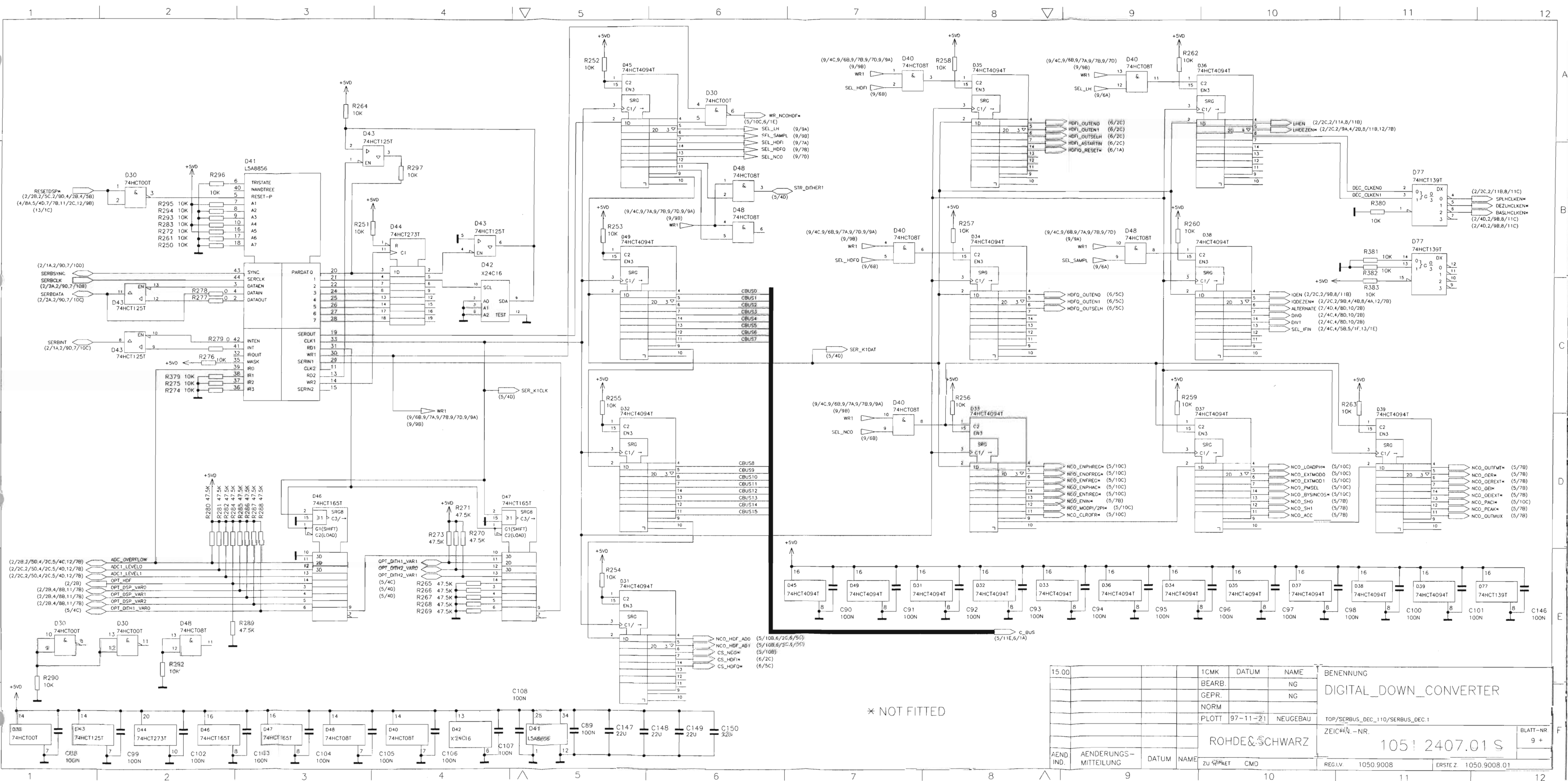
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							1051.2407.01 S
							BLATT-NR.
							8 +
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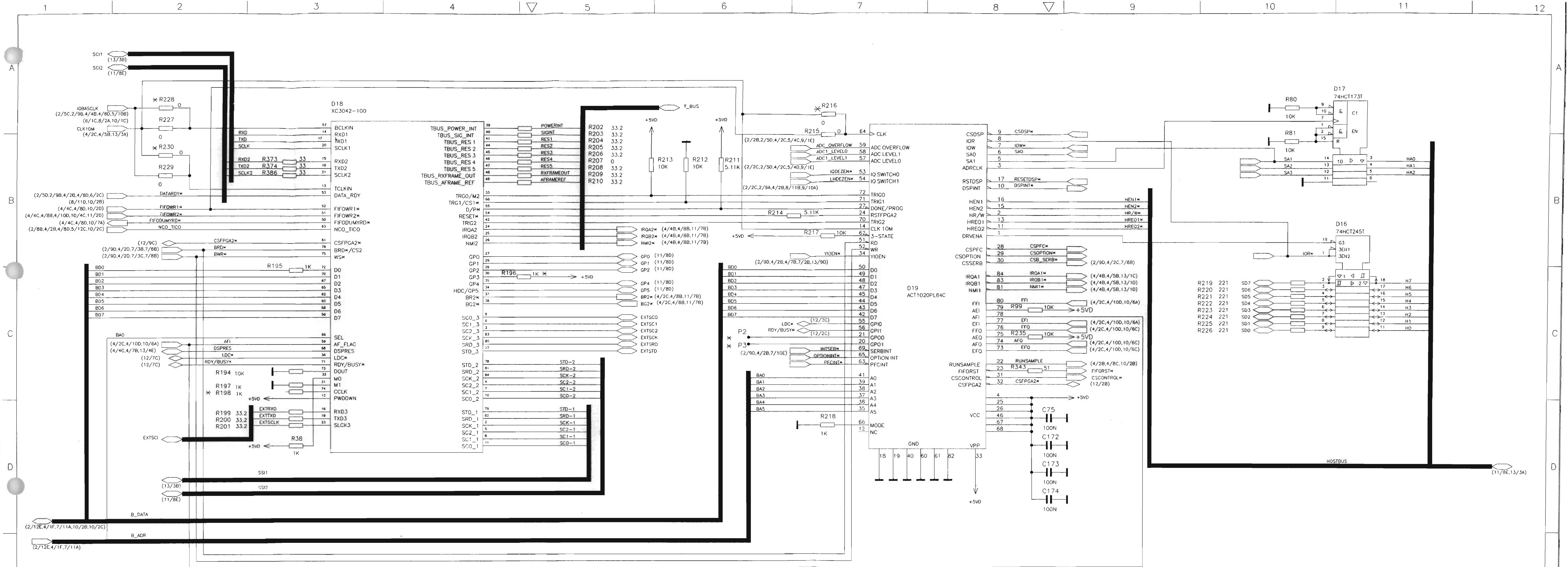
BEHALTEN WIR UNS ALLE RECHTE VOR

BEHALTEN WIR UNS ALLE RECHTE VOR

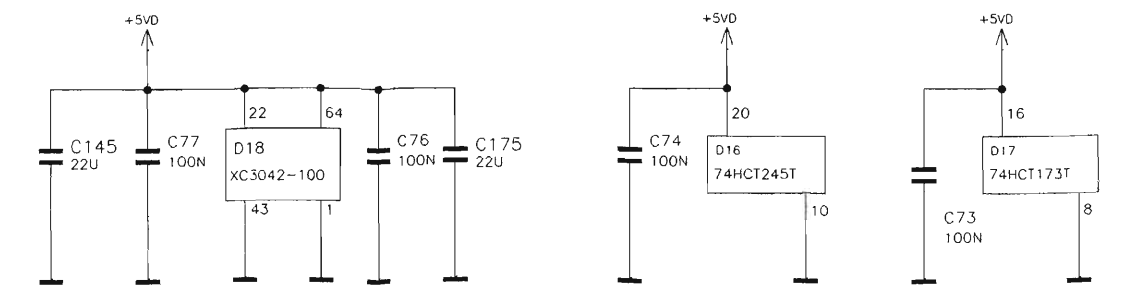


* NOT FITTED

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		NORM			
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IND.	MITTEILUNG			REG.I.V.	1050.9008
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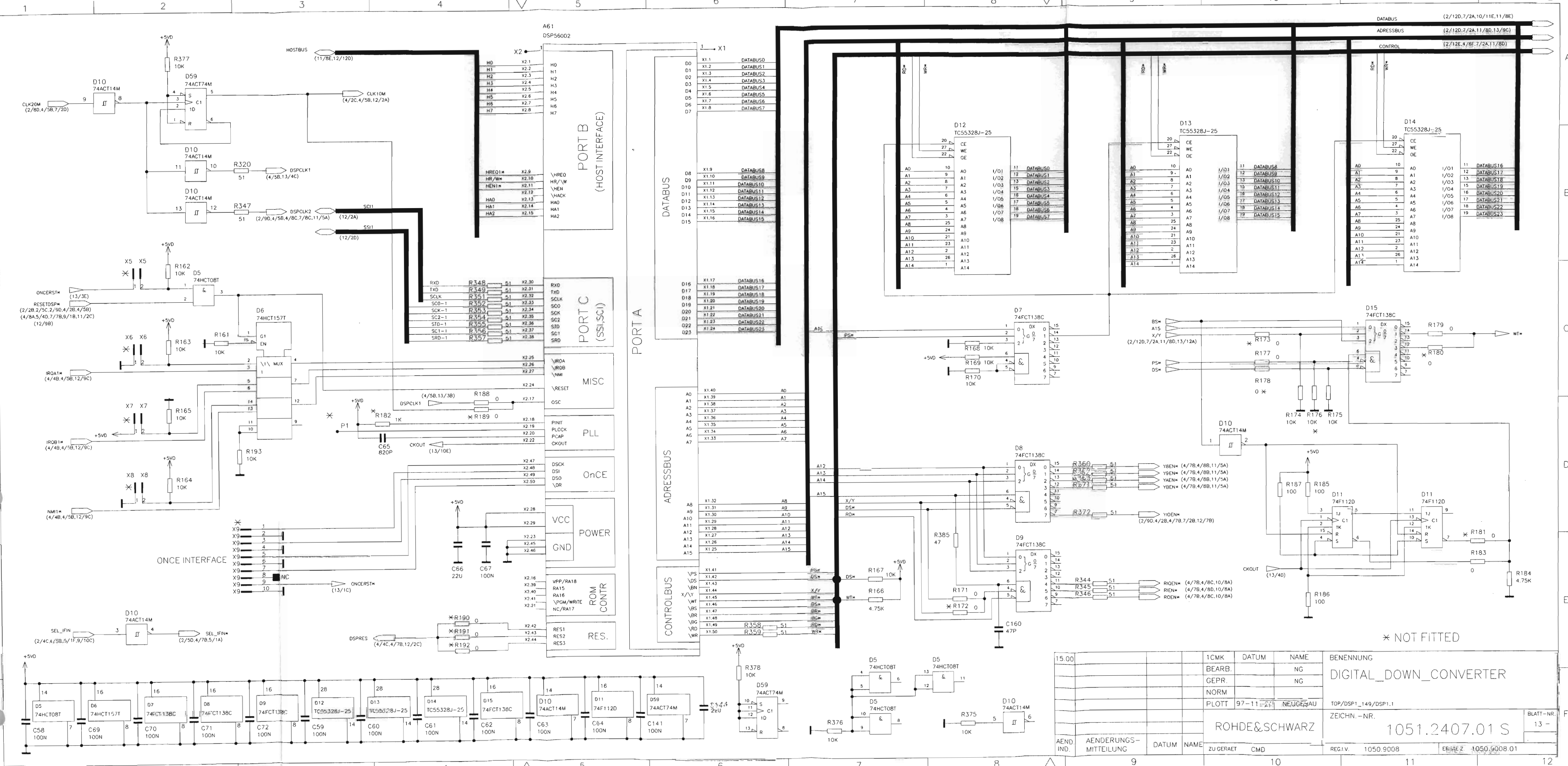
BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

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				NORM			
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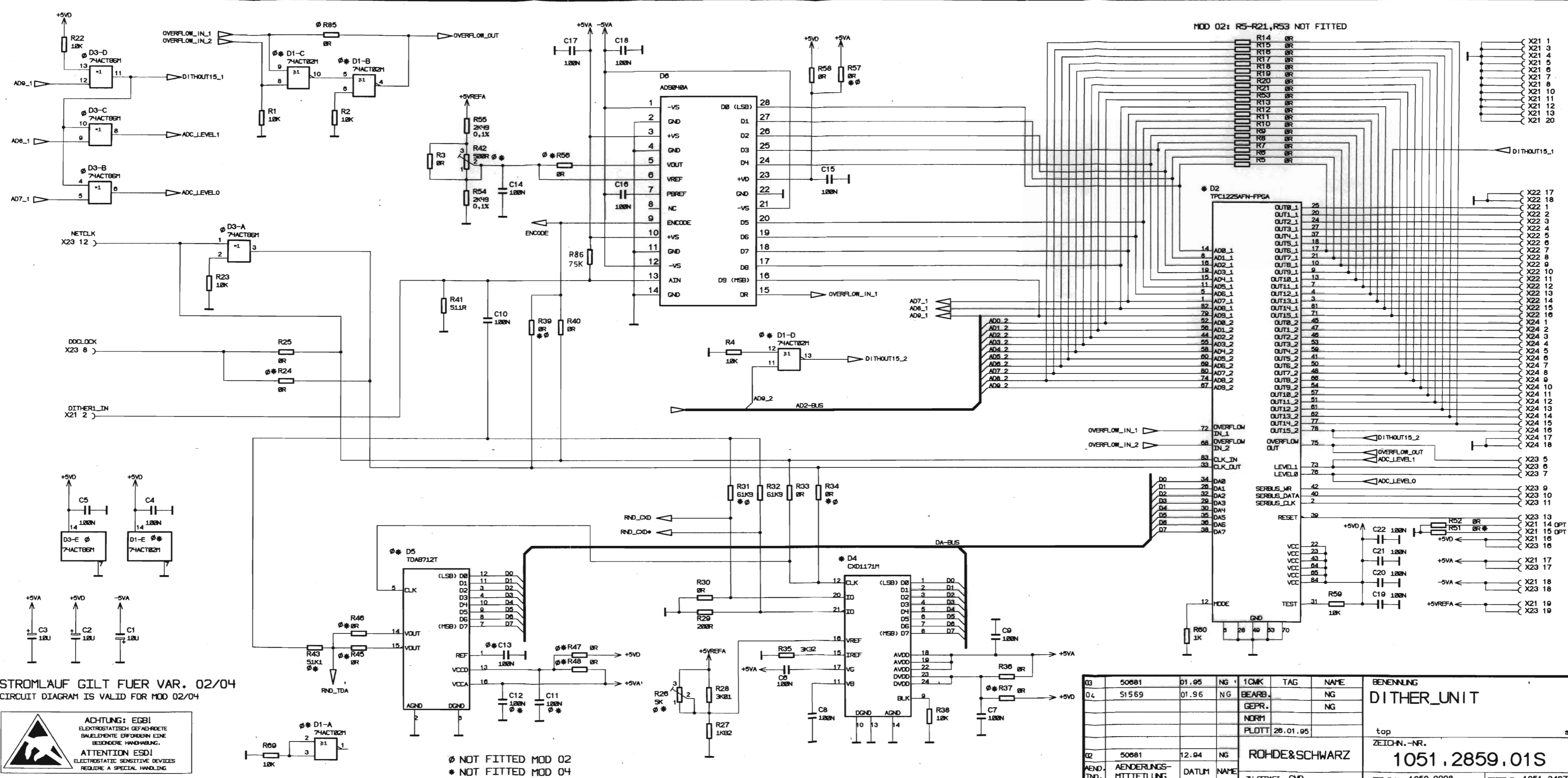
FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



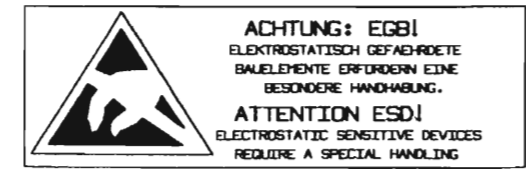
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					1051.2407.01 S
					BLATT-NR.
					13 -
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD
				REG. V.	1050.9008
				ERSTZ.	1050.9008.01

* NOT FITTED

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



STROMLAUF GILT FUER VAR. 02/04
CIRCUIT DIAGRAM IS VALID FOR MOD 02/04



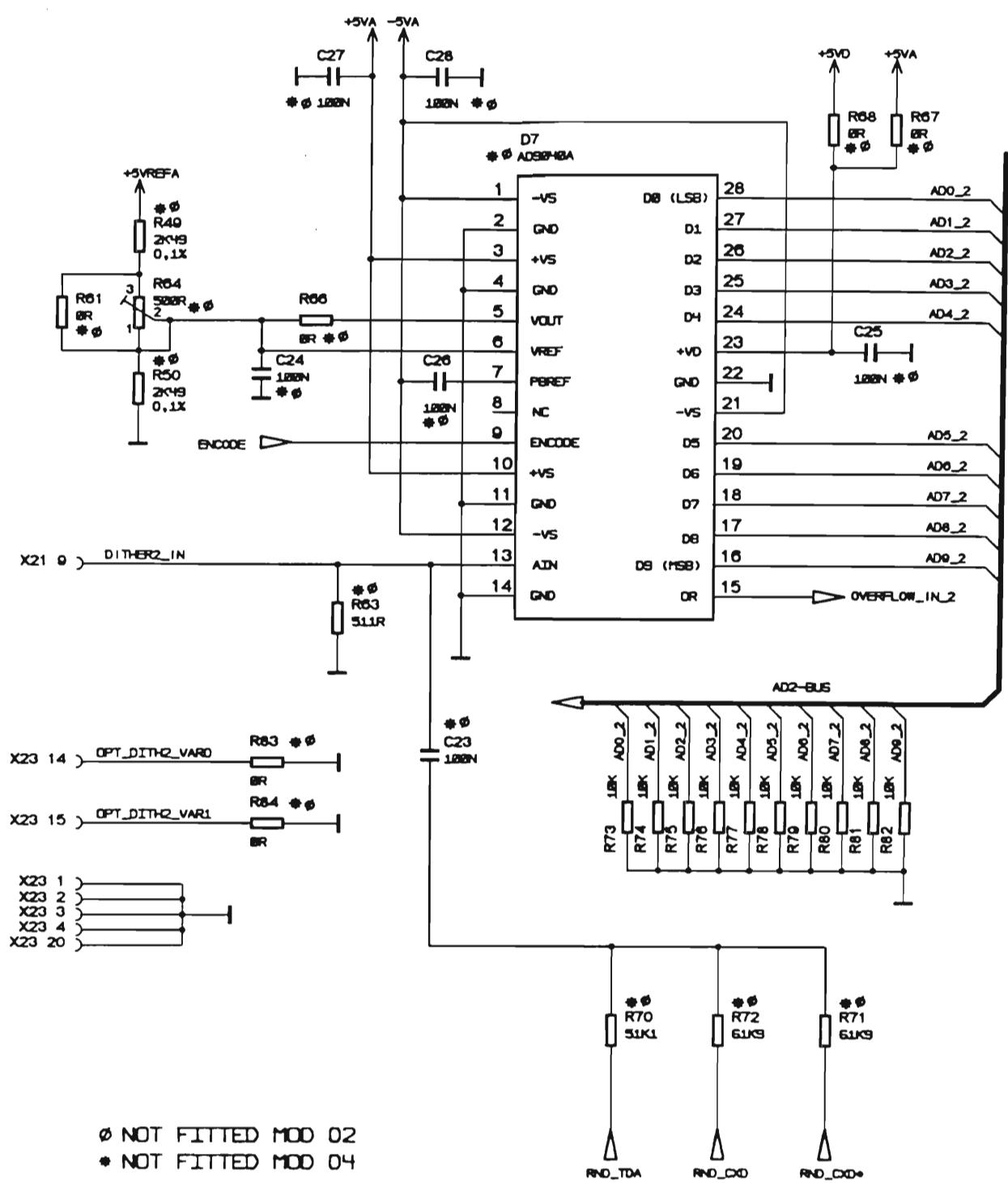
NOT FITTED MOD 02
NOT FITTED MOD 04

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				GEPR.		NG	
				NDR1			
				PLOTT	26.01.95		
02	50681	12.94	NG				top sheet0
ÄND.-IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD		ZEICHN.-NR. 1051.2859.01S
							REG.I.V. 1050.9008
							ERSTE Z. 1051.2407

IG	50681	01.95	NG	1CMK	TAG	NAME	BENENNUNG
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				GEPR.		NG	
				NDR1			
				PLOTT	26.01.95		
02	50681	12.94	NG				top sheet0
ÄND.-IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD		ZEICHN.-NR. 1051.2859.01S
							REG.I.V. 1050.9008
							ERSTE Z. 1051.2407

BLATT-NR. 1
V.2 BL.

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

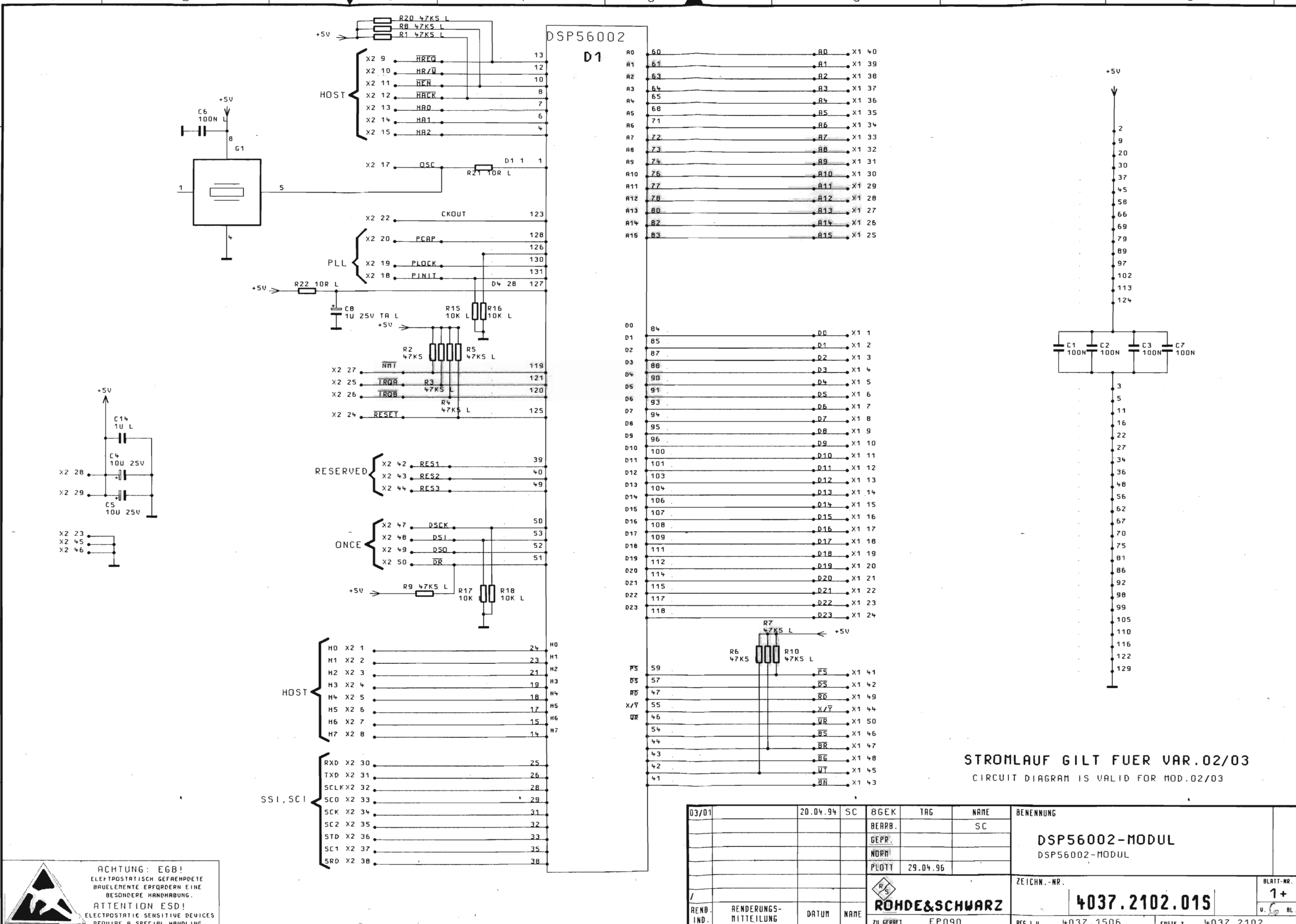


Ø NOT FITTED MOD 02
* NOT FITTED MOD 04

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				GEPR.		NG		
				NORM				
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							1051.2859.01S	2
							REG.I.V. 1050.9008	V.2 BL.
				ZU GERÄT CMD			ERSTE Z. 1051.2407	

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

HN.-NR.

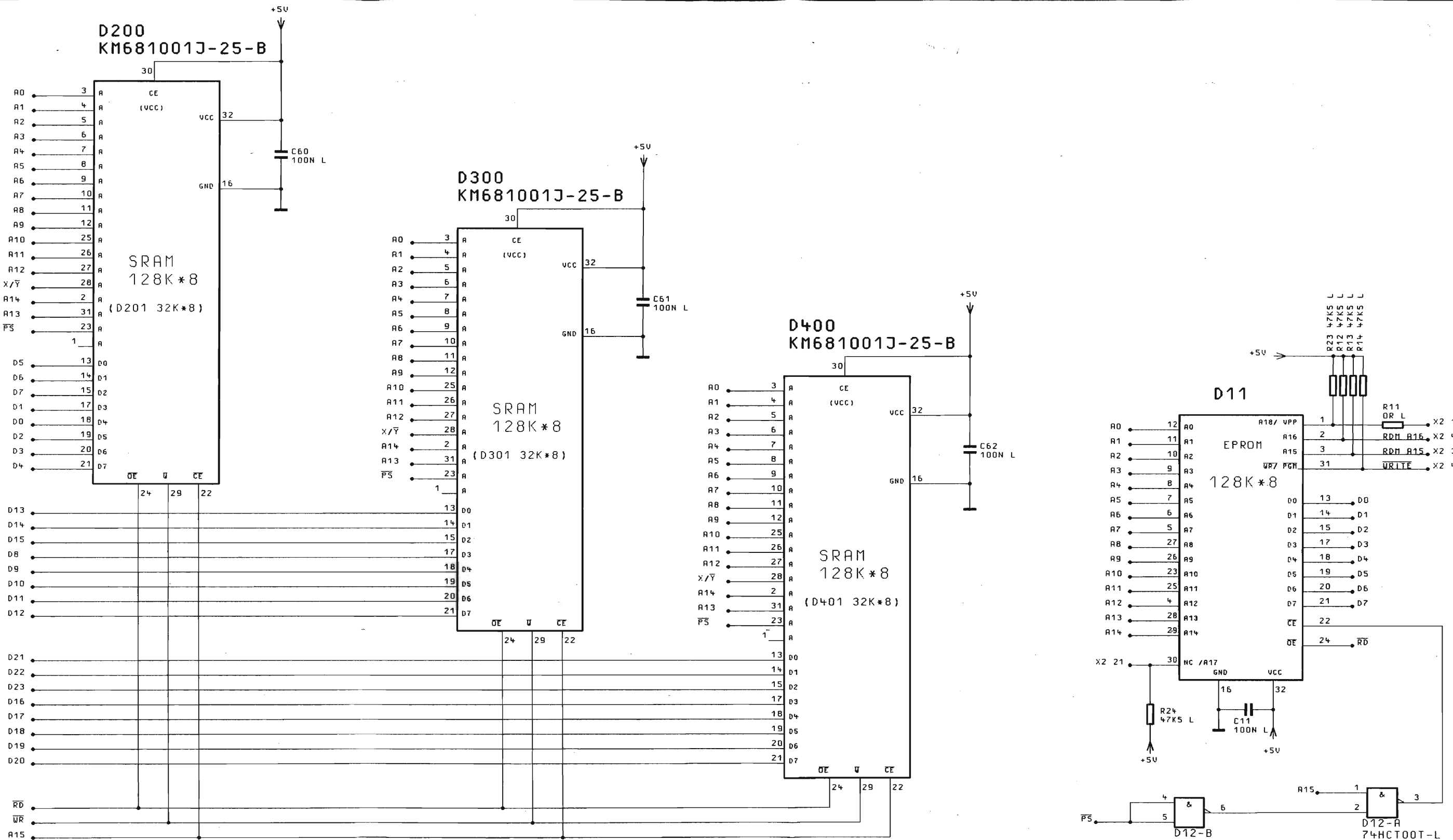


STROMLAUF GILT FUER VAR.02/03
CIRCUIT DIAGRAM IS VALID FOR MOD.02/03

ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFOORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

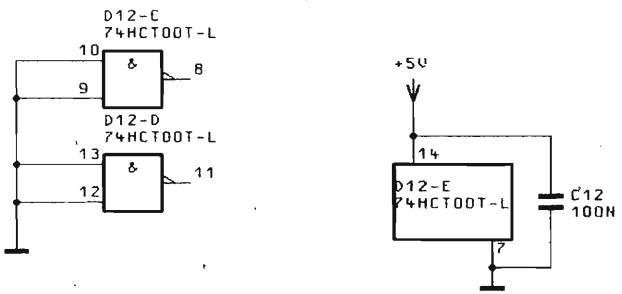
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			NORM			
			PLOTT	29.04.96		
					ZEICHN.-NR.	4037.2102.01S
					RENDERUNGS- MITTEILUNG	
			ZU GERRET	EP090	REG. I. V.	4037.1506
					ERSTE Z.	4037.2102

BLATT-NR.
1+
U. BL.



FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE UOOR

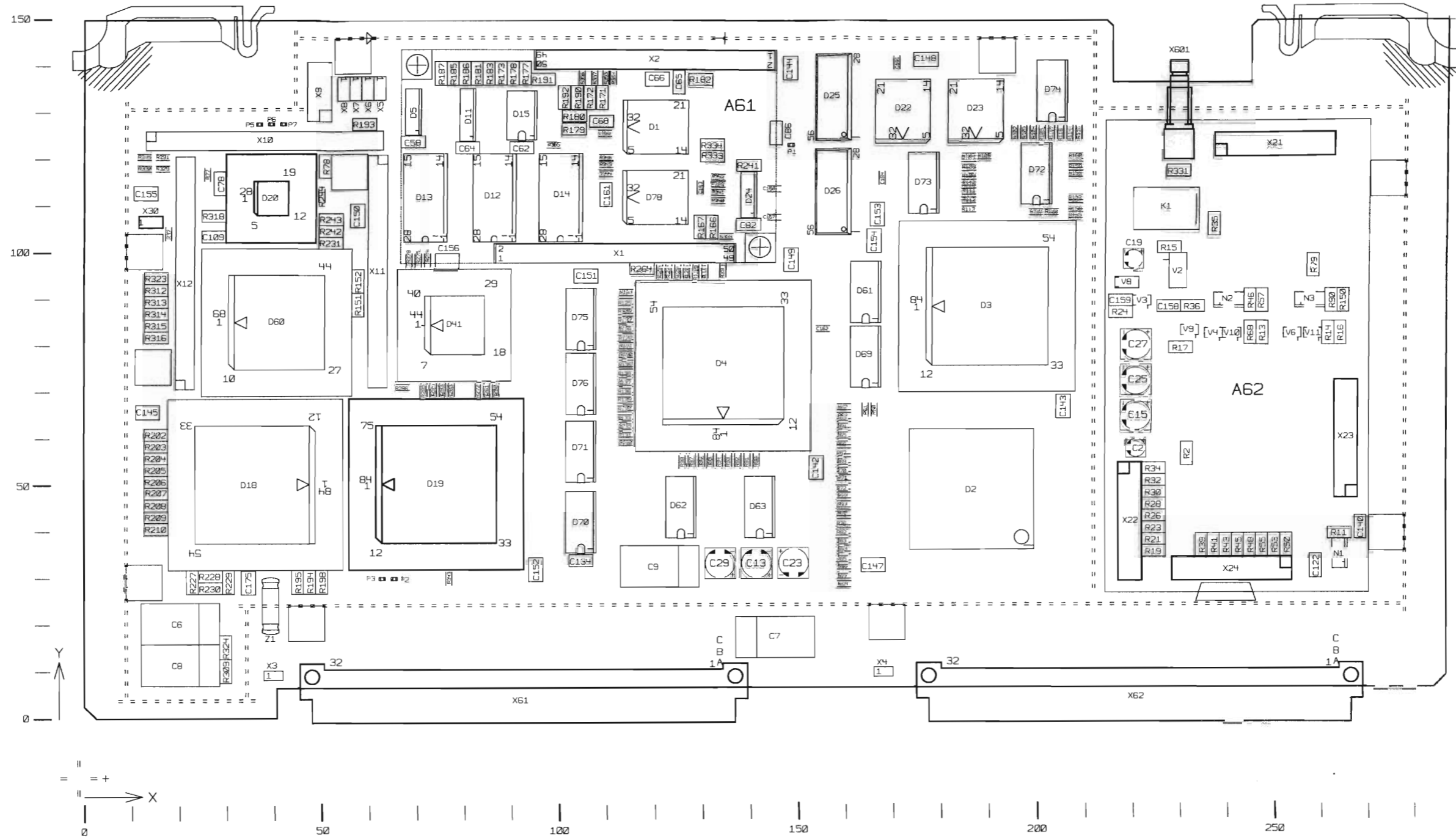
STROMLAUF GILT FUER VAR.02/03
CIRCUIT DIAGRAM IS VALID FOR MOD.02/03



ACHTUNG: EGB!
ELEKTROSTATISCH GEFAHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

03/01	20.04.94	SC	BGEK	TAG	NAME	BENENNUNG
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						4037.1506
						ERSTE Z.
						4037.2102
						BLATT-NR.
						2+
						v. 6 Bl.

ZEICHN.-NR.



BEWÄHREN SIE DIESE ZEICHNUNG MIT ALLEN RECHTEN VOR

DARSTELLUNG SEITE B
VIEW ON SIDE B



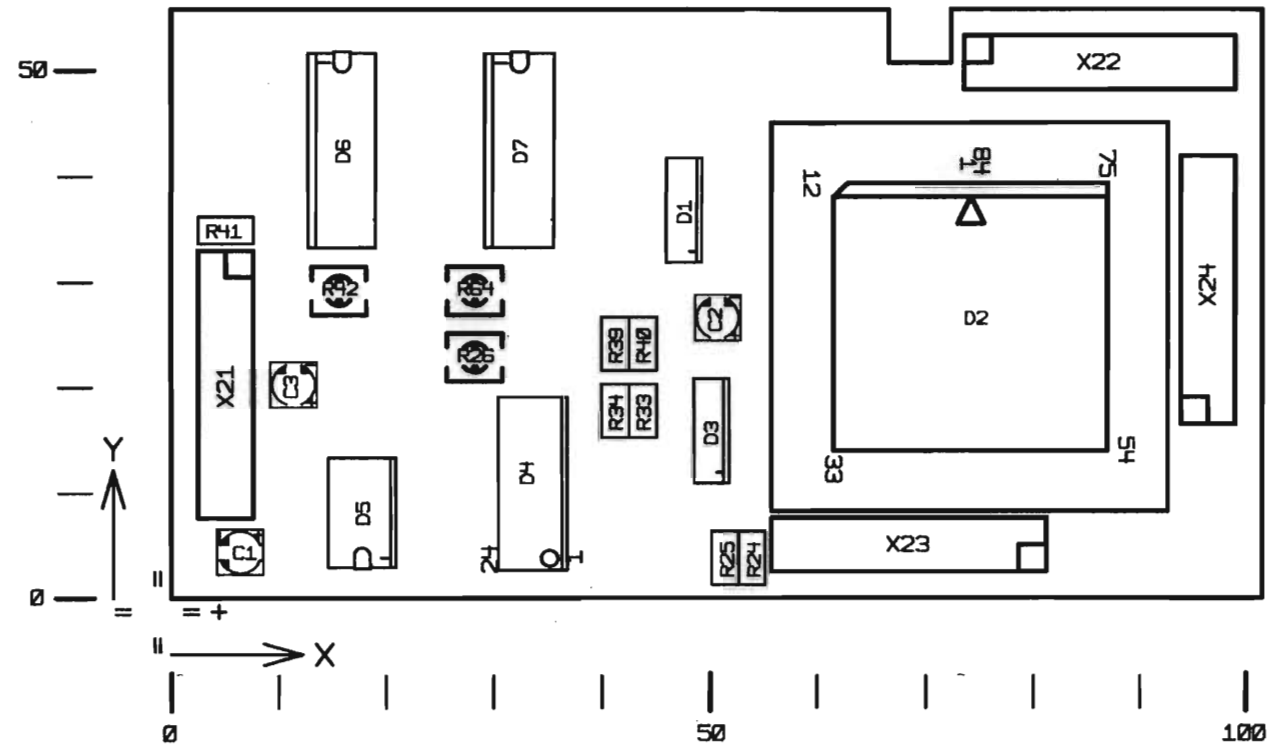
ATTENTION: SEHEN
ALTERNATIVE GEWÄHRLEISTUNG
WÄHLEN SIE DIE RICHTIGE
BEZUGSNUMMER FÜR DIE
BEZUGSNUMMERN
ATTENTION ESQ!
ALTERNATIVE SENSITIVE SERVICES
SERVICES & SPECIAL SERVICES

BEZUGSNUMMERN ANGEWENDET
INDEPENDENT, UNALTERIERTE UND
NICHT BESTIMMTE BEZUGSNUMMERN
FÜR SONDERE INFORMATIONEN ÜBER
TRIFTS- UND KONFIGURATIONEN UND
ANDERE KONFIGURATIONEN SIEHE PARTS LIST

NO.	REVISIONS	DATE	BY	NAME	REVISIONS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

BENENNUNG: DIGITAL_DOWN_CONVERTER
 ZEICHNUNG-NR.: 1051_2407_01 D
 VERFASSER: IRHDE&SCHWARZ
 DATUM: 07-11-20
 NEUERBAU
 RELATIV: 1:1

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



DARSTELLUNG SEITE B
VIEW ON SIDE B



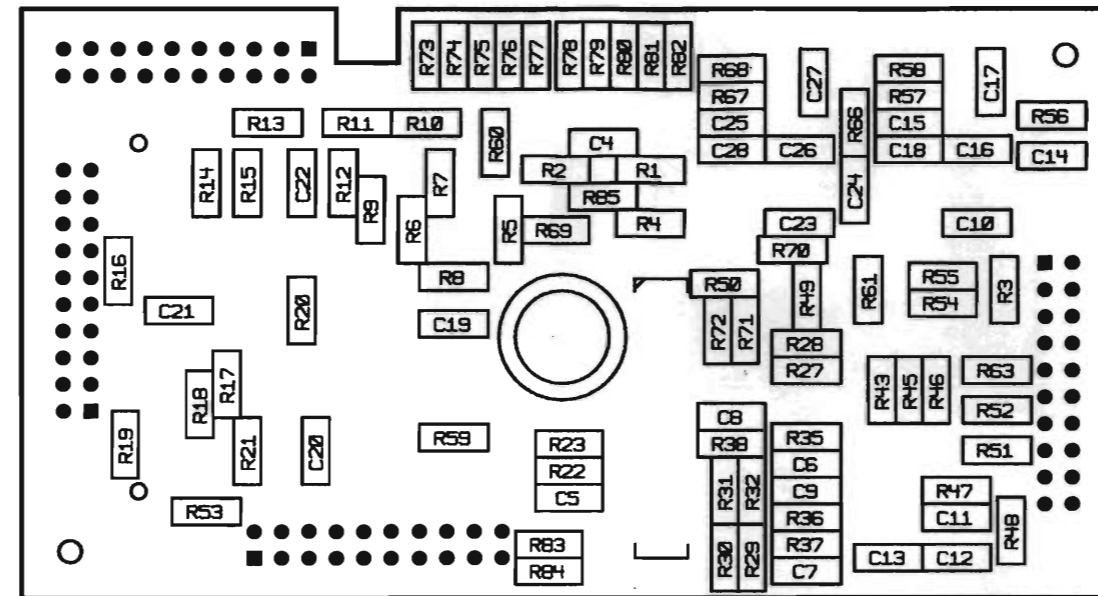
ACHTUNG: ESD!
ELEKTROSTATISCH DEFIZIENDE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

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				GEPR.		NG		
				NORM				
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				ZU GERÄT	CMD		REG.I.V. 1050.9008	ERSTE Z. 1051.2407

FLIER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



DARSTELLUNG SEITE A
VIEW ON SIDE A



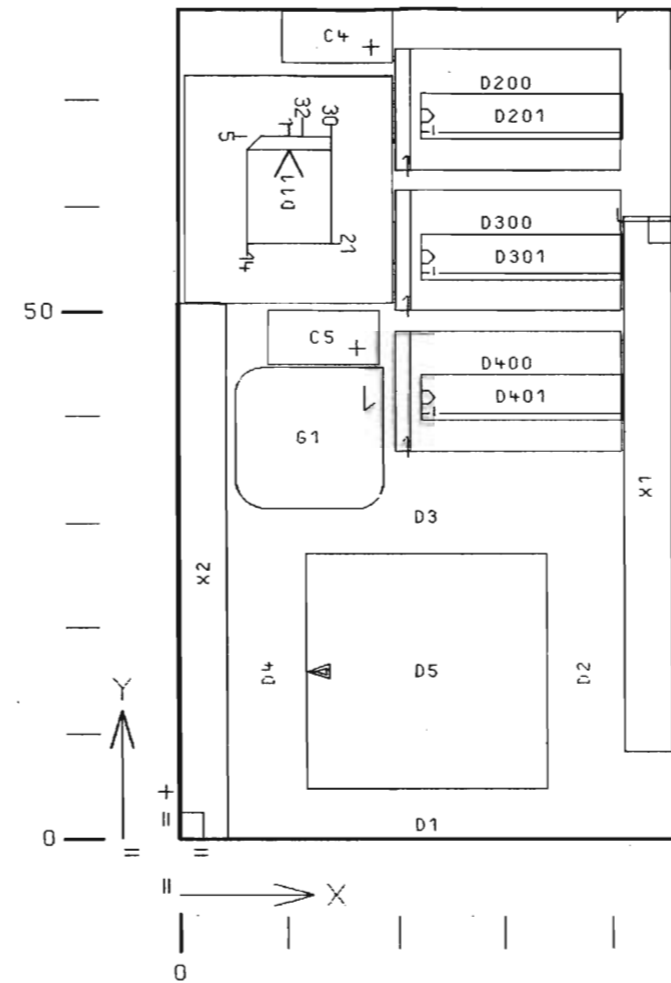
ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

02	50681	12.94	NG	1CMK	TAG	NAME	BENENNUNG	
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				GEPR.		NG		
				NORM				
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				ZU GERAET	CMD		REG.I.V. 1050.9008	ERSTE Z. 1051.2407

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR.
DIESE ZEICHNUNG IST EIN ARBEITSDRUCK, ÄNDERUNGEN KÖNNEN NUR DURCH ÄNDERUNG DES DATENSATZES ERFOLGEN



GILT FUER VAR.02/03
IS VALID FOR MOD.02/03

DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

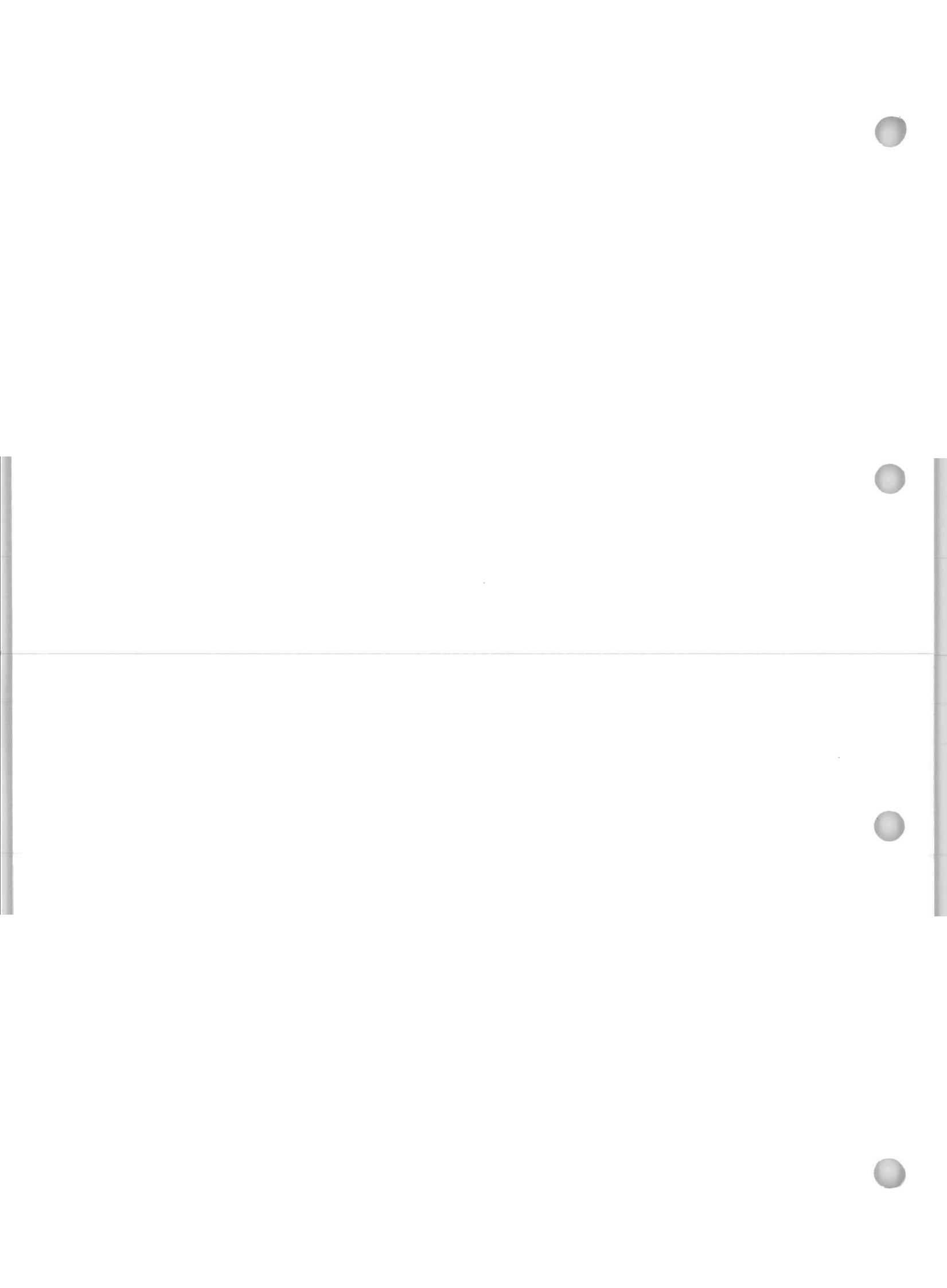
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			NOPM	29.04.96			
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						4037.2102.01 ED	1+
							v. 2 BL.
REND. IND.	RENDPUNGS- MITTEILUNG	DATUM	NAME			REG. I. V.	ERSTE Z.
				ZU GERÄT	EPO90	4037.1506	4037.2102



ROHDE & SCHWARZ

SERVICE DOCUMENTS
RF Synthesizer

1051.2307.02



Contents

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7.1.2	RF Frequency Generation7.1
7.1.3	Intermediate Frequency.....7.1
7.1.4	Baseband.....7.1
7.1.5	IQ Modulator and Level Correction Element.....7.2
7.1.6	Mixer and Tracking Filter7.2
7.1.7	Level Control Element and Attenuator.....7.2
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7.1.9	TX Correctionboard7.2
7.1.10	Correction Machine.....7.2
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7.1.12	Control Unit Link Handler.....7.3
7.1.13	EEPROM7.3
7.2	Interfaces.....7.4

Parts lists
 Circuit diagrams
 Component layout diagrams



7 Service Instructions for RF Synthesizer

7.1 Function Description

(See circuit diagram 1051.2307 S)

The main functions of the RF synthesizer are:

- Instrument reference and clock frequency generation.
- Generation and modulation of the output frequency.
- Variation of the output level by means of switch-selected attenuator pads and level fine tuning.
- Correction of spurious variables and deviations from nominal values in the entire transmit path of the instrument.

7.1.1 Reference Frequency Generation

The 10-MHz crystal oscillator B4 (TCXO) is used as standard as temperature- and long-term-stable reference source. An oven-controlled crystal oscillator (OCXO) can be used optionally.

External frequencies to which the internal reference oscillator is to be synchronized can be selected:

Possible synchronization sources are TCXO/EXT.REFIN (X31.A19) / OCXO/ABISSSYNCOUT (X31.A27).

This selected reference frequency or an internally generated 10-MHz frequency synchronized to it is output at FREFOUT1 (X31.A17).

7.1.2 RF Frequency Generation

In the RF Synthesizer a VCO is implemented as local oscillator, which covers a tuning range of 1000 MHz to 2000 MHz. The core of the RF frequency generation is an integrated circuit of the type FRACSYN2. The phase reference frequency of the phase detector lies at 18 MHz and is derived from 108 MHz (X31.A29) by division.

7.1.3 Intermediate Frequency

The transmit signal is preprocessed at a fixed intermediate frequency of 400 MHz. To this end, a 400-MHz PLL is implemented, which is operated with a phase detector reference frequency of 1 MHz. The reference frequency is derived from 108 MHz by division. The signals 20 MHz (X31.A31) and 2 MHz (X31.A23), in turn, are derived from the 400 MHz.

7.1.4 Baseband

The modulation signal (PDC: QPSK) is generated on the Link Handler board in the baseband and split up into in-phase and quadrature component (PRITXI and PRITXQ).

Via a multiplexer, various input signals can be connected to the IQ modulator at the synthesizer: internal +1 V, -1 V, 0 V or external PRITXI (X31.C23) and PRITXQ (X31.C25). The spurious components (offset, gain imbalance, quadrature) in the I/Q path are corrected via control elements on the sandwich board "TX-Correction board".

7.1.5 IQ Modulator and Level Correction Element

The IQ modulator converts the baseband signals to the 400-MHz intermediate frequency. The IQ modulator is followed by a level control element which corrects the deviations of the currently selected RF path setting from the nominal value during instrument operation. The level control element is driven via the DA converter C.CORR on the sandwich board "TX Correction Board".

7.1.6 Mixer and Tracking Filter

The modulated IF signal is converted to the desired transmit frequency with the aid of the LO VCO. For transmit frequencies between 800 and 1600 MHz, the LO is 400 MHz above the transmit frequency, for transmit frequencies between 1600 and 2200 MHz below. In the first case, a settable lowpass filter filters the spurious signals caused by the LO frequency and the unwanted sideband, in the second case this task is performed by a tracking highpass filter.

7.1.7 Level Control Element and Attenuator

The Synthesizer accommodates an attenuator consisting of the following switch-selected attenuator pads:

- 3*20-dB attenuator pad
- 1*10-dB attenuator pad
- 1* 5-dB attenuator pad

In addition, a level control element is provided that can be set with 0.1-dB resolution and can cover a dynamic range of approx. 25 dB.

7.1.8 Peak Detector and Sample & Hold Circuit

This function permits to check the output level of the Synthesizer. However, the function is currently not used in the instrument.

7.1.9 TX Correction Board

The sandwich board "TX Correction Board" contains control elements for setting and correction of the following variables in the transmit path:

- Level correction (C.CORR)
- Tracking filter (C.F01 and C.F02)
- IQ spurious components (C.IOFFSET, C.QOFFSET, C.QUADR)
- Level fine tuning (C.GAIN)

Data from the flash PROM are written to these control elements by an FPGA. Addressing of the flash PROM depends on the current transmit path settings, temperature.

7.1.10 Correction Machine

For way of functioning see section 6.1.4.

In the instrument, correction values are calculated for all settings of the complete transmit path in preprocessing mode and written into the flash PROM.

7.1.11 Control Unit Serbus

The control signals on the RF Synthesizer are operated via the serbus (X31.B15, B17, B19).

7.1.12 Control Unit Link Handler

Alternatively, the LO frequency (PRISYNTH X31.C15, C17 and C19) or the output level of the RF Synthesizer (LEV X31.C11, C13 and C21) can be set via the Link Handler. This possibility is currently not used in the application software.

7.1.13 EEPROM

In order to achieve high accuracy, individual data of the boards such as e.g. frequency response of the RF Synthesizer are stored in an EEPROM. These data are considered for setting and result evaluation of the RF paths during instrument operation.

7.2 Interfaces

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
A1 (X31)	NC	B	P		
A2	+5 VREF	I	A	+5 V \pm 1 %	Reference voltage
A3	GND	B	P		
A4	-15.3 V	I	P	-15.3 V \pm 5 %	
A5	GND	B	P		
A6	+5.2 V	I	P	+5.2 V \pm 5 %	
A7	+5.2 V	I	P	+5.2 V \pm 5 %	
A8	GND	B	P		
A9	+7.7 V	I	P	+7.7 V \pm 5 %	
A10	GND	B	P		
A11	+15.3 V	I	P	+15.3 V \pm 5 %	
A12	GND	B	P		
A13	+30 V	I	P	+30 V \pm 3 %	
A14	GND	B	P		
A15	NC				
A16	GND	B	P		
A17	FREFOUT1	O	A	10 MHz/FREFIN 0 to 5 V, Zout approx. 50 Ohm	
A18	GND	B	P		
A19	FREFIN	I	A	100 kHz to 50 MHz step, 10K, -10 dBm to +10 dBm, Zout approx. 100 Ohm	
A20	GND	B	P		
A21	NC				
A22	GND	B	P		
A23	2 MHz	O	D	TTL, Zout approx. 100 Ohm, symmetrical mark-to-space ratio	
A24	GND	B	P		
A25	ABISSYNCIN	O	D		
A26	GND	B	P		
A27	ABISSYNCOU	I	D	TTL	From Abis board
A28	GND	B	P		
A29	108 MHz	O	A	1 Vpp sine, Zout approx. 45 Ohm	
A30	GND	B	P		
A31	20 MHz	O	D	TTL, Zout approx. 50 Ohm, symmetrical mark-to-space ratio	
A32	GND	B	P		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
B1 (X31)	GND	B	P		
B2	DIAGNOSE	O	A	-5 V to +5 V	
B3	GND	B	P		
B4	-15.3 V	I	P	-15.3 V \pm 5 %	
B5	GND	B	P		
B6	+5.2 V	I	P	+5.2 V \pm 5 %	
B7	+5.2 V	I	P	+5.2 V \pm 5 %	
B8	GND	B	P		
B9	+7.7 V	I	P	+7.7 V \pm 5 %	
B10	GND	B	P		
B11	+15.3 V	I	P	+15.3 V \pm 5 %	
B12	GND	B	P		
B13	+12 V STANDBY	I	D	+12 V \pm 5 %	
B14	GND	B	P		
B15	SERBCLK	I	D	TTL	SERBUS
B16	GND	B	P		
B17	SERBDATA	B	D	TTL	SERBUS
B18	GND	B	P		
B19	SERBINT	B	D	TTL	SERBUS
B20	GND	B	P		
B21	SERBSYNC	I	D	TTL	SERBUS
B22	GND	B	P		
B23	BRESETDRV	I	D	TTL	SERBUS
B24	GND	B	P		
B25	GND	B	P		
B26	GND	B	P		
B27	GND	B	P		
B28	GND	B	P		
B29	GND	B	P		
B30	GND	B	P		
B31	GND	B	P		
B32	GND	B	P		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
C1 (X31)	GND	B	P		
C2	TXPOWER	O	A	-0.5 to 5 V	From frontend
C3	GND	B	P		
C4	NC				
C5	NC				
C6	NC				
C7	NC				
C8	NC				
C9	NC				
C10	GND	B	P		
C11	LEVCLK	I	D	TTL	From link handler
C12	GND	B	P		
C13	LEVDATA	I	D	TTL	From link handler
C14	GND	B	P		
C15	PRISYNTHCLK	I	D	TTL	From link handler
C16	GND	B	P		
C17	PRISYNTHDATA	I	D	TTL	From link handler
C18	GND	B	P		
C19	PRISYNTHENTX	I	D	TTL	From link handler
C20	GND	B	P		
C21	PRILEVENTX	I	D	TTL	From link handler
C22	GND	B	P		
C23	PRITXI	I	A	-1 V to +1 V \pm 1 mV offset 0 to 1 MHz, Zout=1.5 kOhm. Max. permissible source impedance 1.5 kOhm.	From link handler
C24	PRITXIQGND	I	A	0 V; reference ground	From link handler
C25	PRITXQ	I	A	-1 V to +1 V \pm 1 mV offset 0 to 1 MHz, Zout = 1.5 kOhm. Max. permissible source impedance 1.5 kOhm.	From link handler
C26	GND	B	P		
C27	NC				
C28	NC				
C29	NC				
C30	NC				
C31	NC				
C32	NC				

RF coaxial connector					
Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X301	RFTX	O	A	-97 to +3 dBm 800 MHz to 2200 MHz, 50 Ohm Return loss > 8 dB Noise floor -140 dBm/Hz Harmonics < -20 dBc Nonharmonics < -50 dBc Suppression at 400 MHz <80 dBc Suppression at 400, 600, 800, 1000, 1200 MHz <80 dBc I/Q modulator: Carrier suppression -40 dBc SB suppression -40 dBc	To frontend

Module-internal connectors					
Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X5				0.9 to 2.2 GHz, -20 dBm \pm 3 dB	RF tap FRACSYN test
X11				400 MHz, -15 dBm \pm 3 dB 800 MHz <-60 dBm	RF tap 400-MHz PLL
X12				0.8 to 2.2 GHz, -50 to -27 dBm	RF tap in front of attenuator
X2 1	GND	B	P		
X2 2	20 MHz CLK	O	D	TTL	
X2 3	DA1	O	D	TTL	From SERBUS-D
X2 4	GND	B	P		
X2 5	CL2	O	D	TTL	From SERBUS-D
X2 6	WR2	O	D	TTL	From SERBUS-D
X2 7	RD2	O	D	TTL	From SERBUS-D
X2 8	SI2	I	D	TTI	From SERBUS-D
X2 9	GND	B	P		
X2 10	PRISYNTHCL	O	D	TTL	From X31 C15
X2 11	PRISYNTHDA	O	D	TTL	From X31 C17
X2 12	PRISYNTHEN	O	D	TTL	From X31 C19
X2 13	LEVEN	O	D	TTL	From X31 C21
X2 14	LEVDA	O	D	TTL	From X31 C13
X2 15	LEVCL	O	D	TTL	From X31 C11
X2 16	FRAC_STR	O	D	TTL	FRACSYN control
X2 17	FRAC_DAT	O	D	TTL	FRACSYN control
X2 18	FRAC_CLK	O	D	TTL	FRACSYN control
X2 19	D0	I	D	TTL	LSB of C.IQGAIN
X2 20	D1	I	D	TTL	Control bit C.IQGAIN
X2 21	D2	I	D	TTL	Control bit C.IQGAIN
X2 22	D3	I	D	TTL	Control bit C.IQGAIN
X2 23	D4	I	D	TTL	Control bit C.IQGAIN

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X2 24	D5	I	D	TTL	Control bit C.IQGAIN
X2 25	D6	I	D	TTL	Control bit C.IQGAIN
X2 26	D7	I	D	TTL	MSB of C.IQGAIN
X2 27	S.VCO1/2	I	D	TTL	Switch bit VCO1/ VCO2
X2 28	S.FRACVCO	I	D	TTL	Control line VCO on/ off
X2 29	GND	B	P	TTL	
X2 30	WRITE_GAIN	I	D	TTL	Strobe C.IQGAIN
X3 1	+5 V	O	P	+5 V +- 5 %	
X3 2	-5 V	O	P	-5 V +- 5 %	
X3 3	+15 V	O	P	+15 V +- 5 %	
X3 4	+VREF	O	A	+5 V +- 10 mV	Buffered +5VREF
X3 5	GND	B	P		
X3 6	GND	B	P		
X3 7	S.5DB	I	D	TTL	Attenuator switch
X3 8	S.10DB	I	D	TTL	Attenuator switch
X3 9	S.20DB1	I	D	TTL	Attenuator switch
X3 10	S.20DB2	I	D	TTL	Attenuator switch
X3 11	S.20DB3	I	D	TTL	Attenuator switch
X3 12	GND	B	P		
X3 13	GND	B	P		
X3 14	C.FREQOUT	I	A	0 to +5 V	
X3 15	C.FREQ.PASS	I	A	0 to +5 V	Setting voltage tracking filter
X3 16	C.FREQ.NOTCH	I	A	0 to +5 V	Setting voltage tracking filter
X3 17	C.OFFSET	I	A	0 to +5 V	Adjustment IQ mod.
X3 18	C.IOFFSET	I	A	0 to +5 V	Adjustment IQ mod.
X3 19	C.QUASH	I	A	0 to +5 V	Adjustment IQ mod.
X3 20	GND	B	P		
X3 21	GND	B	P		
X3 22	-15 V	O	P	-15 V +- 5 %	
X3 23	C.CORRECT	O	A	-3 to -6 V	Temperature-depend. reference voltage, level-correction circuit
X3 24	SIDEBAND	I	D	TTL	
X3 25	C.CORRH	I	A	3 to +6 V	Control voltage, level-correction circuit
X3 26	C.CORRH.FNC	B	P		
X3 27	C.GAIN	I	A	0 to -5 V	Control voltage, level control
X3 28	C.GAIN.FNC	B	P		
X3 29	GND	B	P		
X3 30	GND	B	P		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X13 1	-10 VXR			-10 V +- 5 %	
X13 2	-5 VX			-5 V +- 5 %	
X13 3	+5 VXR			+5 V +- 5 %	
X13 4	+10 VX			+10 V +- 5 %	
X13 5	+14 VX			+14 V +- 5 %	
P13	+5 VREFX			+5 V +- 10 mV	
X9 2	+2.5 VREF			+2.5 V +- 5 mV	
P4	+5 VL			+5 V +- 5 %	
P5				+7 V +- 0.5 V	
P6				+3 V +- ? V	Operating point V89
P8				+3 V +- ? V	Operating point V90

Signal direction

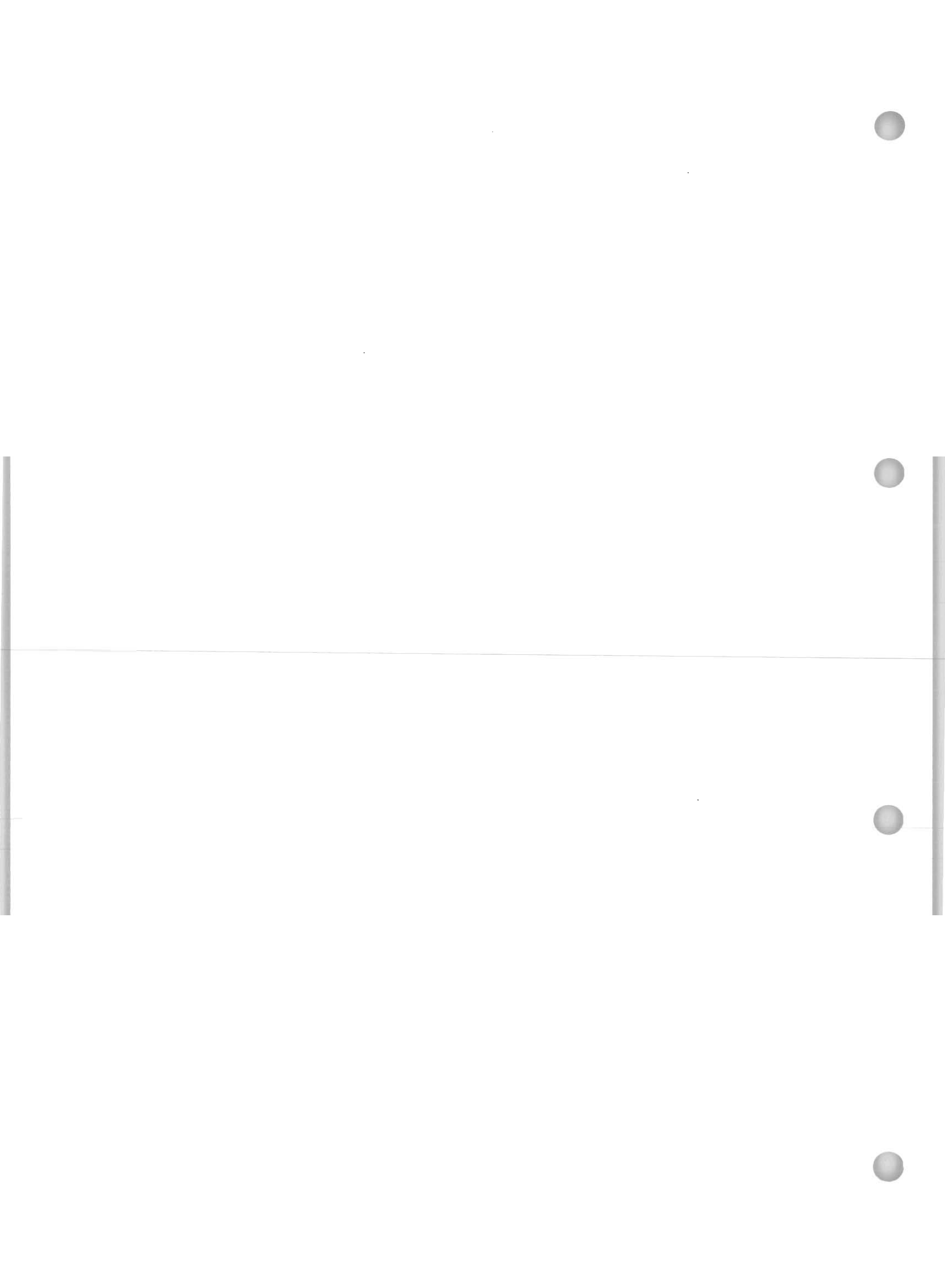
I = Input
O = Output
B = Bidirectional

Type of signal

A = Analog
D = Digital
P = Power



Schaltteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR 02 = GRUNDAUSFUEHRUNG MOD 02 = BASIC_MODEL VAR 04 = AUSF. F. TETRA MOD 04 = MODEL F. TETRA				
A31	EE TX CORRECTION BOARD TX CORRECTION BOARD NUR VAR/ONLY MOD: 02	1051.2907.02			
A31	EE TX CORRECTION BOARD NUR VAR/ONLY MOD: 04	1051.2907.04			
B1	BL 74AC169SC 4B BIN CNT IC 4BIT BIN U/D COUNTER	BL 0009.5686.00	NSC	(74)AC169(SC)	
B2	ER KERAMIK RESONATOR 450M MICROWAVE RESONATOR	4024.5672.00	SIEMENS	B69610-G4846-B605	
B3	BM SYM2500 MIXER 2,5G MIXER MODULE	1051.4774.00	MINI-CIRCU	SYM-2500	
B4	EO 10.000000MHZ QUA-OSZ5V CRYSTAL OSZILLATOR VTCXO	1036.4331.00	PHILIPS_CO	9922 515 00037	
B5	EQ 108,000MHZ 5.CL30HC50 QUARTZ CRYSTAL UNIT	0051.1362.00	TELEQUARZ	TQ 3405	
C1	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C6	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C7	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C8	CC 27NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8473.00	PHILIPS_CO	2238 581 16633	
C9	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C10	CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	0009.8304.00	MURATA	GRM39COG***B50PT	
C11	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C12	CC 4,7PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4538.00	MURATA	GRM39COG***B50PT	
C13	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C14	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C15	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C16	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C17	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C18	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	KEMET	T491 B 475 K 010 AS	
C19	CC 4P7+-0,25 63V NPO 1206 SMD-CERAMIC-CAP *HIGH Q*	0008.7185.00	PHILIPS_CO	2222 576 11118	
C20	CC 47PF+-2% 63V NPO 1206 SMD-CERAMIC-CAP *HIGH Q*	0008.7291.00	PHILIPS_CO	2222 576 11432	
C21	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C22	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C24	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C25	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C27	CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8815.00	MURATA	GRM42-6COG 680F 50PT	
C28	CC 47PF+-2% 63V NPO 1206 SMD-CERAMIC-CAP *HIGH Q*	0008.7291.00	PHILIPS_CO	2222 576 11432	
C29	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C30	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 50PT	
C31	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C32	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C34	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	

1CMK

510 3PU-D

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Datum
Date

Schaltteilliste für
Parts list for

Sachnummer
Stock No.

Blatt-Nr.
Page



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EE RF_SYNTHESIZER


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095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C35	NICHT BESTUECKT CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C36	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C37	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C38	CC 1,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4444.00	MURATA	GRM39COG***B50PT	
C39	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C40	CC 470PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8515.00	PHILIPS_CO	2238 863 18471	
C41	CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4609.00	MURATA	GRM39COG***F50PT	
C42	CC 1,8PFO,1PF50V NPO 0603 MD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39COG***B50PT	
C43	CC 2,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4467.00	MURATA	GRM39COG***B50PT	
C44	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C45	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C46	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C47	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C48	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C49	CC 68NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5214.00	PHILIPS_CO	2238 581 15647	
C50	NICHT BESTUECKT CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C51	CC 470PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8515.00	PHILIPS_CO	2238 863 18471	
C52	BEST. NACH BL. 7" CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	KEMET	T491 B 475 K 010 AS	
C53	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C54	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C55	CE 22UF+-20%35V RUND SMD SMD-ELEKTROLYTIC-CAPACIT.	CE 0009.6253.00	PANASONIC	EEV HB 1V 220P	
C56	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C57	CK 68NF +-5% 25V PPS 2220 METALLIZED PPS-CAP.SMD	1051.4897.00	PHILIPS_CO	2222 393 29683	
C58	NICHT BESTUECKT CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C59	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C60	NICHT BESTUECKT CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C61	NICHT BESTUECKT CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C62	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
C63	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C64	NICHT BESTUECKT CC 100NF+-10%50V5K1200VIE CAPACITOR	CC 0084.5350.00	UNION_CARB	CK 05 BX 104K	
C65	CC 100NF+-10%50V5K1200VIE CAPACITOR	CC 0084.5350.00	UNION_CARB	CK 05 BX 104K	
C66	CC 150PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8509.00	PHILIPS_CO	2238 863 18151	
C67	CC 150PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8509.00	PHILIPS_CO	2238 863 18151	
C68	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..71 C72	CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	

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	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	2+	

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C73	CC 47PF+-2% 63V NPO 1206 SMD-CERAMIC-CAP. "HIGH Q"	0008.7291.00	PHILIPS_CO	2222 576 11432	
C74	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C75	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C76	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	
C77	CE 22UF+-20%35V RUND SMD SMD-ELEKTROLYTIC-CAPACIT.	CE 0009.6253.00	PANASONIC	EEV HB 1V 220P	
C78	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..83 C84	CC 33PF+-2% 63V NPO 1206 SMD-CERAMIC-CAP. "HIGH Q"	0008.7279.00	PHILIPS_CO	2222 576 11429	
C85	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..87 C88	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C89	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C90	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C91	CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITOR	CE 0007.7281.00	KEMET	T491 C 106 K 010 AS	
C92	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C93	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C94	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C95	CC 33PF+-2% 63V NPO 1206 SMD-CERAMIC-CAP. "HIGH Q"	0008.7279.00	PHILIPS_CO	2222 576 11429	
C96	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C97	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C98	CC 4P7+-0,25 63V NPO 1206 SMD-CERAMIC-CAP. "HIGH Q"	0008.7185.00	PHILIPS_CO	2222 576 11118	
C99	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C100	CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8409.00	MURATA	GRM42-6COG 270F 50PT	
C101	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..103 C104	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
..108 C109	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C110	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C111	CK 22NF +-5% 25V PPS 1812 SMD-FILM-CAPACITOR	0009.7866.00	PHILIPS_CO	2222 392 29223	
C112	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C113	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C114	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C115	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C116	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
..120 C121	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C122	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C123	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C124	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C125	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C126	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C127	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	
C128	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	

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		38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	3+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C129	CC 1,8PF0,1PF50V NPO 0603 MD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39COG***B5OPT	
C130	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C131	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F5OPT	
C132	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C133	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F5OPT	
C134	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C135	CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8256.00	MURATA	GRM39COG***F5OPT	
C136	CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8256.00	MURATA	GRM39COG***F5OPT	
C137 ..147	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C148	CC 2,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	0009.4467.00	MURATA	GRM39COG***B5OPT	
C149 ..151	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C152	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C153	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F5OPT	
C154	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C155	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C156	CC 6,8PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8262.00	MURATA	GRM39COG***B5OPT	
C157	CC 3,9PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4509.00	MURATA	GRM39COG***B5OPT	
C158	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C159	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C160	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C161	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4721.00	MURATA	GRM39COG***F5OPT	
C162	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4721.00	MURATA	GRM39COG***F5OPT	
C163	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C164	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C165	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C166	CC 8,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4550.00	MURATA	GRM39COG***B5OPT	
C167	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B5OPT	
C168	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C169	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C170	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C171	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C5OPT	
C172	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C173	CC 1,8PF0,1PF50V NPO 0603 MD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39COG***B5OPT	
C174	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C175	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C176	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C177	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C178	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	4+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C179	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C180	CC 6,8PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8262.00	MURATA	GRM39COG***B5OPT	
C181	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	KEMET	T491 B 475 K 010 AS	
C182	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C183	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	PHILIPS_CO	2222 863 18271	
C184	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 5OPT	
C185	CC 5,6PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4521.00	MURATA	GRM39COG***B5OPT	
C186	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C187	CE 1UF +-10% 10V 1206 TANTALUM-SMD-CAPACITOR	CE 0007.7252.00	KEMET	T491 A 105 K 010 AS	
C188	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C189	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 5OPT	
C190	CC 330PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8873.00	PHILIPS_CO	2238 863 18331	
C191	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C192	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C194	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	
C195	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C196	CC 120PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8838.00	MURATA	GRM42-6COG 121F 5OPT	
C197	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 5OPT	
C198	CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8256.00	MURATA	GRM39COG***F5OPT	
C199	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F5OPT	
C200	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C201	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C202	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*	
C203	CC 3,9PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4509.00	MURATA	GRM39COG***B5OPT	
C204	CC 3,9PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4509.00	MURATA	GRM39COG***B5OPT	
C205	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C206	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C207	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C208	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 5OPT	
C209	LD 1,5NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6599.00	TOKO	LL1608-F1N5S	
C210	CC 1,8PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39COG***B5OPT	
C211	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 5OPT	
C212	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F5OPT	
C213	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 5OPT	
C214	CC 4,7NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4809.00	MURATA	GRM39X7R***K5C50OPT*	
C215	LD 1,5NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6599.00	TOKO	LL1608-F1N5S	
C216	LD 3,3NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6630.00	TOKO	LL1608-F...K	
C217	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F5OPT	
C218	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C219	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHEISER	1051.2307.01 SA	5+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C220	CC 4,7NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4809.00	MURATA	GRM39X7R***K5C500PT*	
C221	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C222	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C223	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..225 C226	CC 1,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4444.00	MURATA	GRM39COG***B50PT	
C227	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C228	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C229	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C230	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C231	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C232	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..236 C237	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
..240 C241	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C242	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C243	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
..246 C247	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C248	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C249	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
C250	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
..252 C253	CC 2,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4467.00	MURATA	GRM39COG***B50PT	
C254	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT	
..260 C261	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C262	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C263	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C264	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C265	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	KEMET	T491 B 475 K 010 AS	
C266	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C267	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C268	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C269	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	KEMET	T491D106K025AS	
C270	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C271	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C272	CC 3,3PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8285.00	MURATA	GRM39COG***B50PT	
C273	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C274	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C275	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C276	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C277	CC 5,6PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4521.00	MURATA	GRM39COG***B50PT	

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	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	6+	

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C278	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C279	CK 220NF+-5% 25V PPS 2220 SMD-FILM-CAPACITOR	0009.7872.00	PHILIPS_CO	2222 393 29224	
C280	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C283	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C284	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C285	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C286	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C287	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4550.00	MURATA	GRM39COG***B50PT	
C288	CE 22UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7298.00	KEMET	T491 D 226 K 010 AS	
C289	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C290	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C291	CE 1UF +-10% 10V 1206 TANTALUM-SMD-CAPACITOR	CE 0007.7252.00	KEMET	T491 A 105 K 010 AS	
C292	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C293	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C294	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	PHILIPS_CO	2222 863 18271	
C295	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C296	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C297	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C298	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
C299	CC 2,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4467.00	MURATA	GRM39COG***B50PT	
C300	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C301	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C302	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C303	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C304	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C305	CC 1,5NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7417.00	PHILIPS_CO	2222 863 18152	
C306	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C307	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C308	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C309	CC 4,7PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4538.00	MURATA	GRM39COG***B50PT	
C310	CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8409.00	MURATA	GRM42-6COG 270F 50PT	
C311	CC 180PF+-1%50V NPO 1206 CHIP CAPACITOR	CC 0099.8844.00	PHILIPS_CO	2238 863 18181	
C312	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C313	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C314	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C315	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C316	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C317	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C318	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	
C319	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C320	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C321	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C322	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C323	CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8815.00	MURATA	GRM42-6COG 680F 50PT	
C324	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C325	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	KEMET	T491 B 475 K 010 AS	
C326	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C327	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C328	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C329	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C330	CC 470NF+-10%50V X7R 1812 CERAMIC CHIP CAPACITOR	CC 0007.7498.00	AVX	1812 5C 474KA TOOF	
C331	CE 1UF +-10% 10V 1206 TANTALUM-SMD-CAPACITOR	CE 0007.7252.00	KEMET	T491 A 105 K 010 AS	
C332	CE 1UF +-10% 10V 1206 TANTALUM-SMD-CAPACITOR	CE 0007.7252.00	KEMET	T491 A 105 K 010 AS	
C333	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C334	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C335	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C346	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C371	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C372	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C379	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C384	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C386	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C387	NICHT BESTUECKT CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50PT	
C389	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C390	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C391	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C392	NICHT BESTUECKT/NOT FITTED CC 3,9PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4509.00	MURATA	GRM39COG***B50PT	
C393	NICHT BESTUECKT/NOT FITTED CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C395	CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4538.00	MURATA	GRM39COG***B50PT	
C396	NICHT BESTUECKT/NOT FITTED CC 1,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4444.00	MURATA	GRM39COG***B50PT	
C397	NICHT BESTUECKT/NOT FITTED CC 1,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4444.00	MURATA	GRM39COG***B50PT	
C399	NICHT BESTUECKT/NOT FITTED CC 1,5PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4450.00	MURATA	GRM39COG***B50PT	
C400	CC 1,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4444.00	MURATA	GRM39COG***B50PT	
C401	CC 1,8PF0,1PF50V NPO 0603 MD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39COG***B50PT	
C402	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C403	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C404	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	

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	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	8+	

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C405	NICHT BESTUECKT CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C406	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C407	CC 33NF+-10% 25V HDK 0603 ERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C408	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C409	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
..411	CC 33NF+-10% 25V HDK 0603 ERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C412	CC 33NF+-10% 25V HDK 0603 ERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C420	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8227.00	MURATA	GRM39COG***F50PT	
C450	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8227.00	MURATA	GRM39COG***F50PT	
C451	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8227.00	MURATA	GRM39COG***F50PT	
C452	ERSETZT V32 CC 15PF+-5% NPO 0805 CERAMIC CHIP CAPACITOR	CC 0099.8338.00	PHILIPS_CO	2222 861 15159	
C453	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.8227.00	MURATA	GRM39COG***F50PT	
C460	CC 1PF+-0,25PF NPO 0805 CHIP CAPACITOR	CC 0099.6770.00	PHILIPS_CO	2222 861 15108	
D1	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D2	BL 74ACTOOSC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTOOM	
..4	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D5	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
..8	BL 74ACTOOSC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTOOM	
D9	BL 74ACTOOSC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTOOM	
D10	BL 74ACTOOSC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTOOM	
D11	BL MC10E016 8B.BIN.ZAEHL IC 8B BIN COUNTER	1043.9641.00	MOTOROLA	(MC)10E016(FN)	
D12	BL UPB585G 2.5G 4:1 PRESC IC PRESCALER 2.5GHZ	1002.5029.00	NEC	(UPB)585(G)-(E1/E2)	
D13	BL PC74HCT14T 6XINV.SCHM INV. SCHMITT-TRIGGER	BL 0007.6204.00	PHILIPS_SE	(PC)74HCT14(D/T)	
D14	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D15	BS DG411DY 4X ANALOGSCH ANALOG SWITCH	0920.1723.00	SILICONIX	DG411DY	
D16	BS DG411DY 4X ANALOGSCH ANALOG SWITCH	0920.1723.00	SILICONIX	DG411DY	
D17	BL PC74HCT139T 2X2/4L.DEC LINE DECODER	BL 0007.6356.00	PHILIPS_SE	(PC)74HCT139D(T)	
D18	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D19	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	0008.6143.00	THESYS	TH3032.1C	
D20	BC X24C16S14 2KX8 EEPROM SERIAL EEPROM	1028.8190.00	XICOR	X24C16S(14)	
D21	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D22	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D23	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
D24	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D25	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D26	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D27	BG TH3087.1I FRACSYN2ASIC IC GATEARRAY	1066.1960.00	THESYS	TH3087.1I	
D29	BO RF2402 QPSK MODULATOR IC MODULATOR	1051.4097.00	RF-MICRO	RF2402	
D30	BL TBB206G SYNTH IC SYNTHSIZER	1051.4016.00	SIEMENS	TBB206G Q67100-H8723	
D31	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	9+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D32	BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER	BL 0007.4018.00	PHILIPS_SE	(PC)74HC14(D/T)	
D33	BL PC74HCT390T 2X4B COUNT DECADE COUNTER	BL 0007.6685.00	PHILIPS_SE	(PC)74HCT390(D/T)	
D34	BL PC74HC86T 4X2IN EXOR QUAD 2INPUT EXOOR GATE	BL 0007.3511.00	PHILIPS_SE	(PC)74HC86(D/T)	
D37	BL PC74HC86T 4X2IN EXOR QUAD 2INPUT EXOOR GATE	BL 0007.3511.00	PHILIPS_SE	(PC)74HC86(D/T)	
D38	BL PC74HC86T 4X2IN EXOR QUAD 2INPUT EXOOR GATE	BL 0007.3511.00	PHILIPS_SE	(PC)74HC86(D/T)	
D39	BL TBB206G SYNTH IC SYNTHSIZER	1051.4016.00	SIEMENS	TBB206G Q67100-H8723	
D40	BL 74ACOOSC 4X2IN NAND QUAD NAND GATTER	BL 0820.3477.00	NSC	74ACO0(SC)	
D41	BL 74ACT153SC 2X 4-IN MUX IC DUAL 4INP MULTIPLEX	BL 1012.9404.00	HARRIS	(CD74)ACT153(M)	
D42	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D44	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D45	BL 74ACOOSC 4X2IN NAND QUAD NAND GATTER	BL 0820.3477.00	NSC	74ACO0(SC)	
D46	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D47	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D48	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D49	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D50	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D51	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D52	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
G1	BO REF02CS VREF IC VOLTAGE REFERENCE	0009.6882.00	ANALOG_DEV	REF02CS	
L1	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L2	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L5	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L6	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L7	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L8	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L9	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L10	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L11	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L12	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L13	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR NICHT BESTUECKT	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L14	LD 470UH 10% 0,07A 1812 SMD-INDUCTOR NICHT BESTUECKT	1065.8877.00	SIEMENS	B82432-A1474-K	
L15	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L16	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L17	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L18	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L19	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L20	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	10+

095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L24	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L25	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L26	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L27	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L28	LD 47ONH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L29	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L30	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR NICHT BESTUECKT	LD 0009.6699.00	TOKO	LL1608-F...K	
L31	RG 35,7 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9000.00	DRALORIC	CR 0603	
L32	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L33	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L34	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L35	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L36	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L37	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L38	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L39	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L40	LD 39 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6760.00	TOKO	LL1608-F...K	
L44	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L45	BEST. NACH BL.7" LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L46	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L47	LD 1MH 10% 5MA 1210 SMD-INDUCTOR	0520.7757.00	TDK	ACL 3225S-102K-T	
L48	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-J(K)100	
L49	LD 470UH 10% 0,07A 1812 SMD-INDUCTOR NICHT BESTUECKT	1065.8877.00	SIEMENS	B82432-A1474-K	
L50	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L53					
L54	CC 1,0PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8304.00	MURATA	GRM39COG***B5OPT	
L55	LD 5,6NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6660.00	TOKO	LL1608-F...K	
L56	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L57	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L58	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
L59	LD 22UH 10% 0,14A 1210 SMD-INDUCTOR	LD 0520.7886.00	SIEMENS	B82422-A1223-J(K)100	
L60	LD 22UH 10% 0,14A 1210 SMD-INDUCTOR	LD 0520.7886.00	SIEMENS	B82422-A1223-J(K)100	
L61	LD 4,7NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6653.00	TOKO	LL1608-F...K	
L62	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L63	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L64	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L65	LD 47ONH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	11+

095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L66	LD 82 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-F82NK	
L67	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L68	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L69	LD 4,7NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6653.00	TOKO	LL1608-F...K	
L70	LD 27 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6747.00	TOKO	LL1608-F...K	
L71	LD 8,2NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6682.00	TOKO	LL1608-F...K	
L72	LD 220NH10%0,4AOR5 1206 SMD-COIL 1206	1062.6515.00	STETTNER	5503 004 21	
L74	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L75	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L76	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L77	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L78	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L79	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L80	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L81	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L82	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-J(K)100	
L85	NICHT BESTUECKT/NOT FITTED LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L86	LD 220NH10%0,4AOR5 1206 SMD-COIL 1206	1062.6515.00	STETTNER	5503 004 21	
L87	LD 39 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6760.00	TOKO	LL1608-F...K	
L88	LD 220NH10%0,4AOR5 1206 SMD-COIL 1206	1062.6515.00	STETTNER	5503 004 21	
L92	LD 47 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6824.00	TOKO	LL2012-F47NK	
L93	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-F...K	
L94	LD 47 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6824.00	TOKO	LL2012-F47NK	
L95	LD 5,6NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6660.00	TOKO	LL1608-F...K	
L96	LD 39 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6760.00	TOKO	LL1608-F...K	
L97	LD 82 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-F82NK	
L98	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L101	LD 1D1,8NH+-0,3NHO,3A0603 SMD-MULTILAYER INDUCTOR	LD 0009.6601.00	TOKO	LL1608-F1N8S	
L102	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L106	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L107	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L108	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
L109	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L110	LD 1D1,8NH+-0,3NHO,3A0603 SMD-MULTILAYER INDUCTOR	LD 0009.6601.00	TOKO	LL1608-F1N8S	
L111	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L112	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L113	LD 1D1,8NH+-0,3NHO,3A0603 SMD-MULTILAYER INDUCTOR	LD 0009.6601.00	TOKO	LL1608-F1N8S	
L114	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	

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	38		16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	12+

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L119	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L120	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
..122					
L124	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L125	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L126	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
..131					
L132	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
L134	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
..140					
L146	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
..148					
L149	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
L150	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L151	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L152	LD 1,5NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR NICHT BESTUECKT/NOT FITTED	LD 0009.6599.00	TOKO	LL1608-F1N5S	
L153	LD 5,6NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6660.00	TOKO	LL1608-F...K	
L154	LD 2,2NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6618.00	TOKO	LL1608-F2N2S	
L155	LD 2,7NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6624.00	TOKO	LL1608-F2N7S	
L156	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L157	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
..163					
L166	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L167	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L168	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L169	LD 90 NH SMD-ABGL.Q5,1H5 SMD-VHF-COIL	0008.9513.00	COMPONEX	E 558 CN-10 0023	
L170	LD 30NH 10% 0,20A 1210 SMD-INDUCTOR	LD 0520.7534.00	SIEMENS	B82422-A3331-J(K)100	
L171	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L172	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L173	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L174	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
..177					
L178	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L179	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L180	LD 220NH10%0,4AOR5 1206 SMD-COIL 1206	1062.6515.00	STETTNER	5503 004 21	
L181	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L182	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L183	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L184	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
..186					
L187	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L188	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L189	LD 68UH 10% 0,08A 1210 SMD-INDUCTOR	LD 4035.1873.00	SIEMENS	B82422-A1683-J(K)100	
L195	LD 1D1,8NH+-0,3NHO,3A0603 SMD-MULTILAYER INDUCTOR	LD 0009.6601.00	TOKO	LL1608-F1N8S	
L196	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	13+

Für diese Unterlage beanhalten wir uns alle Rechte vor.

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L197	LD 100NH10%OR21 66OMA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 00404	
L198	LD 470NH10%OR5 0,1A1206 SMD-MULTILAYER INDUCTOR	0007.9226.00	TOKO	MLF 3216 D R47 KL	
L250	LD 470NH10%OR5 0,1A1206 SMD-MULTILAYER INDUCTOR	0007.9226.00	TOKO	MLF 3216 D R47 KL	
L300	LD 2,7NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR ERSETZT C391	LD 0009.6624.00	TOKO	LL1608-F2N7S	
L302	LD 4,7NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR ERSETZT V120	LD 0009.6653.00	TOKO	LL1608-F...K	
N1	BM MAR7 MMIC BROADBAND AMPLIFIER	0520.7334.00	MINI-CIRCU	MAR7	
N2	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N3	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N4	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N5	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
..7					
N8	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N9	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N10	BO OP97FS LP PREC OPAMP OPAMP	1036.4390.00	PMI	OP97F(S)	
..13					
N14	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N15	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N16	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N17	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N18	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N19	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N20	BL MC12080D 10/20/40PRESC IC PRESCALER	1051.4900.00	MOTOROLA	(MC)12080(D)	
N21	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N22	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N23	BO OP97FS LP PREC OPAMP OPAMP	1036.4390.00	PMI	OP97F(S)	
N24	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N25	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N27	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N28	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N30	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N31	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N32	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N33	BM INA10386 DC-1.8G MMIC IC MICROWAVE AMPL	1051.4768.00	HEWLETT_PA	INA-10386-TR1	
N34	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N35	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
N36	BJ LF398S8 SAMPLE/HOLD SAMPLE AND HOLD AMPLIFIER	0802.4375.00	LINEAR_TEC	(LF)398(S8)	
N37	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
N38	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N42	BO LT1056S8 FET OPAMP OPERATIONAL AMPLIFIER	0007.7800.00	LINEAR_TEC	LT1056(S8)	


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		38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	14+

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
P1	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
P2 ..8	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P9	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
P10 ..13	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R2	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R4	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R5	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	RS 0007.9632.00	BI_TECHNOL	23 B R... TR	
R6	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	ROEDERSTEI	D25	
R7	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R8	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R9	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	ROEDERSTEI	D25	
R10	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	D25	
R11	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	D25	
R12	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	D25	
R13	RG 110 OHM+-1%TK100 1206 CHIP RESISTOR BEST. NACH BL.7"	RG 0006.8890.00	ROEDERSTEI	D25	
R14	RG 0,05W 22R +-1% 0805 RESISTOR	RG 0007.8920.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R15	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R16	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R17	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R18 ..20	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R21	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R22	RG 1,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9997.00	ROEDERSTEI	D25	
R23	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R24	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R25	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R26	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R27	RG 20,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7643.00	PHILIPS_CO	MPC 01	
R28	RG 20,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7643.00	PHILIPS_CO	MPC 01	
R29	RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7666.00	PHILIPS_CO	MPC 01	
R30	RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7666.00	PHILIPS_CO	MPC 01	
R31	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R32	RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7666.00	PHILIPS_CO	MPC 01	
R33	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R34	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R35	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R36	RG 1,10OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8271.00	PHILIPS	RC 02	
R37	RG 1,10OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8271.00	PHILIPS	RC 02	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	15+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R38	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
R39	RG 2,210HM+-1%TK100 CHIP-RESISTOR	1206 RG 0007.8342.00	PHILIPS	RC 02	
R40	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206 RG 0007.0793.00	PHILIPS_CO	RC02	
R41	RG 750 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.9097.00	ROEDERSTEI	D25	
R42	RG 3,32KOHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5789.00	ROEDERSTEI	D25	
R43	RG 2,21KOHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5743.00	ROEDERSTEI	D25	
R44	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5820.00	ROEDERSTEI	D25	
R45	RG 825 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.7259.00	ROEDERSTEI	D25	
R46	RG 162 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.8932.00	ROEDERSTEI	D25	
R47	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
R48	RG 100 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.8884.00	PHILIPS_CO	RC02	
R49	RG 475 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5695.00	ROEDERSTEI	D25	
R50	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
..52	CHIP RESISTOR				
R53	RG 475 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5695.00	ROEDERSTEI	D25	
..56	RESISTOR CHIP				
R57	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
R58	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
..60	CHIP RESISTOR				
R61	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
R62	NICHT BESTUECKT RG 10,0 OHM+-1%TK100 CHIP -RESISTOR	1206 RG 0006.8649.00	PHILIPS_CO	RC02	
R63	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
..66	CHIP RESISTOR				
R67	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206 RG 0007.0793.00	PHILIPS_CO	RC02	
R68	RG 1,100HM+-1%TK100 CHIP-RESISTOR	1206 RG 0007.8271.00	PHILIPS	RC 02	
R69	RG 20,0 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5472.00	ROEDERSTEI	D25	
R70	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	1206 RG 0007.5108.00	DRALORIC	CR 1206	
R71	RG 10,0 OHM+-1%TK100 CHIP -RESISTOR	1206 RG 0006.8649.00	PHILIPS_CO	RC02	
R72	RG 75,0 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.8855.00	ROEDERSTEI	D25	
R73	RG 332 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5650.00	PHILIPS_CO	RC02	
R74	RG 150 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5589.00	ROEDERSTEI	D25	
R75	RG 392 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5672.00	ROEDERSTEI	D25	
R76	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5820.00	ROEDERSTEI	D25	
R77	RG 1,82KOHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5720.00	ROEDERSTEI	D25	
R78	RG 56,2 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.8826.00	ROEDERSTEI	D25	
R79	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
..83	CHIP RESISTOR				
R84	RG 56,2 OHM+-1%TK100 CHIP RESISTOR	1206 RG 0006.8826.00	ROEDERSTEI	D25	
R85	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
R86	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206 RG 0006.7271.00	PHILIPS_CO	RC02	
..91	CHIP RESISTOR				
R92	RG 274 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5637.00	ROEDERSTEI	D25	
..94	RESISTOR CHIP				
R95	RG 0,05W 330R +-1% RESISTOR	0805 RG 0007.9061.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R96	RG 274 OHM+-1%TK100 RESISTOR CHIP	1206 RG 0007.5637.00	ROEDERSTEI	D25	
..99	RESISTOR CHIP				


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	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	16+	

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R100 ..102	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R103	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R104	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R105	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R106	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	D25	
R107	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R108	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R109	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	D25	
R110	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	D25	
R111	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R112 ..115	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R116	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R117	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R118	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R119	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R120	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R121	RG 357 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6040.00	PHILIPS_CO	RC02	
R122 ..124	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R125 ..127	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R128	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT/NOT FITTED	RG 0009.5340.00	DRALORIC	CR 0603	
R129	RG 432 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5689.00	ROEDERSTEI	D25	
R130	RG 1,0 KO +-0,1%TK25 1206 SMD-RESISTOR	0009.7595.00	PHILIPS_CO	MPC 01	
R131	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R132 ..135	RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7666.00	PHILIPS_CO	MPC 01	
R136	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R137	RG 1,0 KO +-0,1%TK25 1206 SMD-RESISTOR	0009.7595.00	PHILIPS_CO	MPC 01	
R138	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	ROEDERSTEI	D25	
R139	RG 301 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5643.00	ROEDERSTEI	D25	
R140	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R141	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R142	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5772.00	ROEDERSTEI	D25	
R143	RG 1,0 KO +-0,1%TK25 1206 SMD-RESISTOR	0009.7595.00	PHILIPS_CO	MPC 01	
R144	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R145	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R146	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R147	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R148	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R149	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	17+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R150	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R151	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R152	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R153	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R154	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R155	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R156	NICHT BESTUECKT/NOT FITTED RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R157	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R158	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R159	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R160	RG 5R62 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9100.00	DRALORIC	CR 0603	
R161	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R162	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R163	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R164	RG 5R62 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9100.00	DRALORIC	CR 0603	
R165	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R166	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R167	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R168	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R169	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R170	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R171	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R172	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R173	RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5750.00	ROEDERSTEI	D25	
R174	RG 6,19KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0741.00	ROEDERSTEI	D25	
R175	RG 1,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9951.00	ROEDERSTEI	D25	
R176	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R177	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R178	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R179	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R180	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R181	RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5489.00	ROEDERSTEI	D25	
R182	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R183	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R184	NICHT BESTUECKT/NOT FITTED RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R185	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R186	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R187	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	18+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R188	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R189	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R190	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R191	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R192	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R193	RK SMD-HEISSEL.220R 0805 SMD-NTC-RESISTOR	1039.1310.00	SIEMENS	B57620-C221-K62	
R194	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R195	RG 8R25 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9117.00	DRALORIC	CR 0603	
R196	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R198	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R199	RG 0,05W 56R +-1% 0805 RESISTOR	RG 0007.8971.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R200	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R201	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R202	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R203	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R205	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R206	RG 470K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7120.00	DRALORIC	CR 0603	
R207	RG 220K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7108.00	DRALORIC	CR 0603	
R208	RG 220K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7114.00	DRALORIC	CR 0603	
R209	RG 330K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R210	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R211	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R212	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R213	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R214	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R215	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R216	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R217	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R218	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R219	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0007.5595.00	ROEDERSTEI	D25	
R220	RG 182 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.0793.00	PHILIPS_CO	RC02	
R221	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	0009.6930.00	DRALORIC	CR 0603	
R222	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0006.7271.00	PHILIPS_CO	RC02	
R223	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R224	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R225	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9997.00	ROEDERSTEI	D25	
R226	RG 1,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0735.00	ROEDERSTEI	D25	
R227	RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R228	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.9968.00	ROEDERSTEI	D25	
R229	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR				

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R230	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R231	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	D25	
R232	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R233	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R234	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R235	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	ROEDERSTEI	D25	
R236	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R237	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R238	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R241	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R242	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R243	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R244	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R245	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R246	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	ROEDERSTEI	D25	
R247	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R248	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R249	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R250	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R251	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R252	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R253	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R254	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R255	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R256	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R257	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R258	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R259	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R260	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R261	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R262	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R263	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R264	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R265	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R266	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R267	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R268	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R269	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R270	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	

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	ROHDE & SCHWARZ	38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	20+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R271	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R272	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R273	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R274	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	D25	
R275	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	D25	
R276	RG 110 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8890.00	ROEDERSTEI	D25	
R277	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R278	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R279	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R280	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R281	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R282	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R283	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R284	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R285	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R286	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R287	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R288	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R289	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R290	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R291	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R292	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R293	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R294	RG 82,5 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9052.00	DRALORIC	CR 0603	
R295	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R296	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R297	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R298	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R299	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R300	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R301	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R302	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R303	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R304	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R305	RG 82,5 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9052.00	DRALORIC	CR 0603	
R306	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R307	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R308	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R309	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R310	RG 12,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0841.00	PHILIPS_CO	RCO2	
R311 ..314	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	D25	
R315	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R316	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R317	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RCO2	
R318	RG 12,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0841.00	PHILIPS_CO	RCO2	
R319 ..321	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R322 ..325	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R326	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R327	RG 1,0 OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8265.00	PHILIPS_CO	RC 02	
R328	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R329	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R331	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	D25	
R332	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R333	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R334	RG 27,4KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5895.00	ROEDERSTEI	D25	
R335	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R336	RG 182 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5595.00	ROEDERSTEI	D25	
R337	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R338	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R339	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R340	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R341	RG 12R1+-1%TK200 0603 SMD-RESISTOR EIA0603	0010.9275.00	ROEDERSTEI	D11 0603	
R342	RG 12R1+-1%TK200 0603 SMD-RESISTOR EIA0603	0010.9275.00	ROEDERSTEI	D11 0603	
R343	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R344	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R345	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R346	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R347	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT/NOT FITTED	RG 0009.5340.00	DRALORIC	CR 0603	
R348	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R349	RG 3,57KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5795.00	ROEDERSTEI	D25	
R350	RG 12,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0841.00	PHILIPS_CO	RCO2	
R351	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R352	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	D25	
R353	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R354	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R355 ..357	RG 16,2OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.8933.00	DRALORIC	CR 0603	
R358	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RCO2	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R359	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R360	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R361	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	D25	
R362	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R363	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT/NOT FITTED	RG 0009.5357.00	DRALORIC	CR 0603	
R364	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R365	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT/NOT FITTED	RG 0009.5357.00	DRALORIC	CR 0603	
R366	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R367	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R368	RG 3,57KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5795.00	ROEDERSTEI	D25	
R369	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R370	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	ROEDERSTEI	D25	
R371	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R372	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R373	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	D25	
R374	RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0735.00	ROEDERSTEI	D25	
R375	RG 13,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5443.00	ROEDERSTEI	D25	
R376	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R377	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R378	RG 9,09KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0787.00	ROEDERSTEI	D25	
R379	RG 7,50OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8471.00	PHILIPS	RC 02	
R380	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R381	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R382	RG 56R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	DRALORIC	CR 0603	
R383	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R384	RG 221 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6004.00	ROEDERSTEI	D25	
R385	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R386	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R387	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R388	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R389	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R390	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	ROEDERSTEI	D25	
R391	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R392	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	ROEDERSTEI	D25	
R393	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	D25	
R394	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	D25	
R395	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	D25	
R396	RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5750.00	ROEDERSTEI	D25	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R397	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R398	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R399	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R400	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R401	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R402	NICHT BESTUECKT RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R403	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R404	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R405	RG 6,81OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8465.00	PHILIPS	RC 02	
R406	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R407	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R408	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R409	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R410	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R411	RG 20,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7643.00	PHILIPS_CO	MPC 01	
R412	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R413	RG 82,5KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1925.00	ROEDERSTEI	D25	
R414	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R415	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	ROEDERSTEI	D25	
R416	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	ROEDERSTEI	D25	
R417	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R418	RG 357 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5666.00	ROEDERSTEI	D25	
R419	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R421	RG 4,75OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8420.00	PHILIPS	RC 02	
R422	RG 4,75OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8420.00	PHILIPS	RC 02	
R423	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R424	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R425	NICHT BESTUECKT RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R426	RG 4,75OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8420.00	PHILIPS	RC 02	
R427	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R428	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R429	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R430	RG 182 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9130.00	DRALORIC	CR 0603	
R431	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R432	RG 182 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9130.00	DRALORIC	CR 0603	
R433	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R434	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R435	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	


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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R436	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R437	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R438	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R439	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R440	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R441	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R442	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R443	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R444	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R445	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R446	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R447	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R450	SMD-RESISTOR EIA0603				
R451	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R452	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R453	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	D25	
R454	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R455	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R456	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R457	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R458	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R459	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R460	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R461	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R462	RS 0,3W 5KOHM+-10%CERMET CERMET POTENTIOMETER	RS 0086.7938.00	BI_TECHNOL	66X ODER 67X	
R463	RG 619 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9074.00	ROEDERSTEI	D25	
R464	RG 619 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9074.00	ROEDERSTEI	D25	
R465	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R466	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	
R467	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R468	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R469	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R470	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R471	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	ROEDERSTEI	D25	
R472	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R473	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R474	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R475	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R476	RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5750.00	ROEDERSTEI	D25	
R477	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R478	RG 681 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6110.00	ROEDERSTEI	D25	
R479	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	ROEDERSTEI	D25	
R480	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R481	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R482	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R483	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	D25	
R484	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R485	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R486	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R487	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R488	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R489	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R490	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R491	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R492	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	D25	
R493	RG 470K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7120.00	DRALORIC	CR 0603	
R494	RG 68K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7089.00	PHILIPS_CO	RC 22 H	
R495	RG 680K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7137.00	DRALORIC	CR 0603	
R496	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	D25	
R497	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R498	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R499	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R500	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R501	RG 43,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5550.00	ROEDERSTEI	D25	
R502	RG 243 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5620.00	ROEDERSTEI	D25	
R503	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R504	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R505	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R506	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R507	RG 35,7KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5920.00	ROEDERSTEI	D25	
R508	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R509	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R510	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R511	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R512	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R513	RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5914.00	ROEDERSTEI	D25	
R514	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	ROEDERSTEI	D25	
R515	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R516	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	


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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R517	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	D25	
R518	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R519	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R520	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R521	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R522	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R523	RG 15K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7043.00	DRALORIC	CR 0603	
R524	RG 39,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5937.00	ROEDERSTEI	D25	
R525	RG 15K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7043.00	DRALORIC	CR 0603	
R526	RG 0,05W 180R +-1% 0805 RESISTOR	RG 0007.9032.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R527	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R528	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R529	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5772.00	ROEDERSTEI	D25	
R530	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R531	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R532	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	D25	
R533	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	D25	
R534	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R535	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R536	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R537	RG 2,0KOHM+-0,1%TK25 1206 SMD-RESISTOR	0009.7608.00	PHILIPS_CO	MPC 01	
R539	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R540	RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5914.00	ROEDERSTEI	D25	
R541	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	ROEDERSTEI	D25	
R542	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R543	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R544	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R545	RG 6,19KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0741.00	ROEDERSTEI	D25	
R546	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R547	RG 43,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5943.00	ROEDERSTEI	D25	
R548	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R549	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R550	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R551	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R552	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R553	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R554	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R555	RG 301 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5643.00	ROEDERSTEI	D25	
R556	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R557	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R558	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R559	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R560	RG 9,09KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0787.00	ROEDERSTEI	D25	
R561	RG 9,09KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0787.00	ROEDERSTEI	D25	
R562	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
..566	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R568	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R569	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	ROEDERSTEI	D25	
R570	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R571	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R572	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R573	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R574	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R575	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R576	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R577	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R578	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R579	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R580	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R581	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R582	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
..584	RG 35,7KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5920.00	ROEDERSTEI	D25	
R585	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	ROEDERSTEI	D25	
R587	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R588	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R589	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	ROEDERSTEI	D25	
R590	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	ROEDERSTEI	D25	
R591	RG 3,57KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5795.00	ROEDERSTEI	D25	
R592	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R593	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R594	RS 0,25W 1KOHM +-20% SMD RG POTENTIOMETER	RS 0007.9610.00	BI_TECHNOL	23 B R... TR	
R595	RG 11,0KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0806.00	ROEDERSTEI	D25	
R596	RG 27,4KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5895.00	ROEDERSTEI	D25	
R597	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R598	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R599	RG 680K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7137.00	DRALORIC	CR 0603	

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R600	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CD	RCO2	
R601	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	ROEDERSTEI	D25	
R602	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0729.00	ROEDERSTEI	D25	
R603	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CD	RCO2	
R604	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	ROEDERSTEI	D25	
R605	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R606	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R607	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CD	RCO2	
R608	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CD	RCO2	
R609	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R610	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R650	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603 ERSETZT C392	RG 0009.5357.00	DRALORIC	CR 0603	
R651	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CD	RCO2	
R656	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM ERSETZT L82	RG 0007.5108.00	DRALORIC	CR 1206	
U1	BJ DAC08CS 1X8-DAC D/A-CONVERTER	6024.3137.00	PMI	DAC08C(S)	
U2	BJ DAC08CS 1X8-DAC D/A-CONVERTER	6024.3137.00	PMI	DAC08C(S)	
U3	BO LM339D 4X COMPAR COMPARATOR	BO 0007.3757.00	SIGNETICS	LM-339D	
U4	BO LM339D 4X COMPAR COMPARATOR	BO 0007.3757.00	SIGNETICS	LM-339D	
U5	BJ DAC08CS 1X8-DAC D/A-CONVERTER	6024.3137.00	PMI	DAC08C(S)	
V1	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V2	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V3	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V4	AK BFS17 N 30V 50MA TRANSISTOR	AK 0010.6460.00	VALVO	BFS17	
V5	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V6	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V7	AK NE85635 N 12V 100MA TRANSISTOR	0807.1080.00	NEC	NE85635	
V8	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V9	AE BB405B 11 2PF CD1 TUNING DIODE	AE 0596.6839.00	PHILIPS	BB405B	
V10	AM SST177 P-D 30V JFET FET NICHT BESTUECKT	4005.3003.00	SILICONIX	SST177	
V11	AE BZV55/C3V9 0.5W ZDI ZENER DIODE	AE 0006.9816.00	PHILIPS_SE	BZV55B3V9	
V12	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V13	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V14	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V15	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V16	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	

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V17	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V18	AE BB405B 11/ 2PF CDI TUNING DIODE	AE 0596.6839.00	PHILIPS	BB405B	
V19	AE BB405B 11/ 2PF CDI TUNING DIODE	AE 0596.6839.00	PHILIPS	BB405B	
V20	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V21	AK BFR193 N 12V 80MA TRANSISTOR	6024.2718.00	SIEMENS	BFR193 (E-6327)	
V22	AE BAS70-04 2XSCHOTTKY DIODE	AE 0644.0976.00	SIEMENS	BAS70-04	
V23	AM BSS84 P-E 50V MOSF TRANSISTOR	4021.1524.00	SIEMENS	BSS84(Q62702-S568)	
V24	AE BAR14-1 2X 100V PIN PIN DIODE	0820.3283.00	SIEMENS	BAR14-1	
V25	AK BSR12 P 15V 100MA TRANSISTOR	AK 0007.2067.00	PHILIPS_SE	BSR12	
V26	AE BB535 18,7/2,1P CDI TUNING DIODE	1039.3107.00	SIEMENS	BB535/Q62702-B580	
V27	AM BF998 N-D DG MOSF TRANSISTOR	1051.4522.00	SIEMENS	BF998(Q62702F1129)	
V28	AM CF739 10V DG MESF DUAL-GATE GAAS MESFET	4017.0604.00	SIEMENS	CF739 E7845	
V29	AE BB833 9,310,75P CDI VARACTOR	1051.4751.00	SIEMENS	BB833	
V30	AE BB833 9,310,75P CDI VARACTOR	1051.4751.00	SIEMENS	BB833	
V31	NICHT BESTUECKT/NOT FITTED AE BB833 9,310,75P CDI VARACTOR	1051.4751.00	SIEMENS	BB833	
V32	AE BB639 2.9/36.0P CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V33	NICHT BESTUECKT/NOT FITTED AM CF739 10V DG MESF DUAL-GATE GAAS MESFET	4017.0604.00	SIEMENS	CF739 E7845	
V34	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V35	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V36	NICHT BESTUECKT AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V37	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V38	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V39	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V40	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V41	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V42	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V43	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V44	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V45	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V46	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V47	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V48	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V49	AE BAT62 1+1 40V SCHOTTKY DIODE PAIR	1051.4045.00	SIEMENS	BAT62 (62)	
V50	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V54	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V55	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V56	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	


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V57	AK BSR12 P 15V 100MA TRANSISTOR	AK 0007.2067.00	PHILIPS_SE	BSR12	
V58	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V59 ..62	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V63	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
V64	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V65	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V66 ..68	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V69	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V70	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V76 ..75 ..80	AE BAR63-03W PIN PIN DIODE	1051.4851.00	SIEMENS	BAR63 (AUFDRUCK G3)	
V81	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V82	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V83	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V84	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V85	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V86	AE BZV55/10V 0,5W ZDI ZENER DIODE	AE 0006.9880.00	PHILIPS_SE	BZV55C10	
V87	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799	
V88	AE BB620 45/03PF CDI TUNING DIODE	0848.5251.00	SIEMENS	BB620	
V89	AM BF998 N-D DG MOSF TRANSISTOR	1051.4522.00	SIEMENS	BF998(Q62702F1129)	
V90	AM BF998 N-D DG MOSF TRANSISTOR	1051.4522.00	SIEMENS	BF998(Q62702F1129)	
V91	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V92	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V93	AE BZV55/C7V5 0,5W ZDI ZENER DIODE	AE 0007.3428.00	PHILIPS_SE	BZV55B7V5	
V94	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V95	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V96	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V97	AK BFS17 N 30V 50MA TRANSISTOR	AK 0010.6460.00	VALVO	BFS17	
V98	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V99	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V100	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V101	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V102	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V103	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V104	AE BZV55/10V 0,5W ZDI ZENER DIODE	AE 0006.9880.00	PHILIPS_SE	BZV55C10	
V105	AM SST4393 35V JFET JFET	0828.4737.00	SILICONIX	SST4393	
V106	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V107	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V108	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V109	AM SST4393 35V JFET JFET	0828.4737.00	SILICONIX	SST4393	

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V110 ..113	AE BAR80 35V SHUNT-PIN SHUNT DIODE	1051.4868.00	SIEMENS	BAR80 (AUFDRUCK AAS)	
V114 ..116	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V117	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V118	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V119	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V120	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V121	NICHT BESTUECKT/NOT FITTED AE BB535 18,7/2,1P CDI TUNING DIODE	1039.3107.00	SIEMENS	BB535/Q62702-B580	
V122	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V123	AE BZV55/C18 0,5W ZDI ZENER DIODE	AE 0006.9916.00	PHILIPS_SE	BZV55B18	
V124	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V125	AK BFS17 N 30V 50MA TRANSISTOR	AK 0010.6460.00	VALVO	BFS17	
V126	AK BFR193 N 12V 80MA TRANSISTOR	6024.2718.00	SIEMENS	BFR193 (E-6327)	
V127	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V128	AE BAR14-1 2X 100V PIN PIN DIODE	0820.3283.00	SIEMENS	BAR14-1	
V150	AE BB811 8,8/1,02PF CDI TUNING DIODE	4024.6179.00	SIEMENS	Q62702-B478 (BB811)	
V151	ERSETZT R363 AE BB639 2.9/36.OP CDI TUNING DIODE ERSETZT L152	4032.4265.00	SIEMENS	BB639(Q62702B586)	
X1	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X2	FP STIFTLISTE 30P.2REIH. CONNECTOR 30P	FP 0520.6550.00	BINDER	11-0215-00-30	
X3	FP STIFTLISTE 30P.2REIH. CONNECTOR 30P	FP 0520.6550.00	BINDER	11-0215-00-30	
X4	FP STIFTLISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X5	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	90MMCX-S50-0-51/1190	
X6	FP STIFTLISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X7	FP STIFTL.WIN 3P.R2,54 ANGLE PIN CONNECTOR	FP 0009.7195.00			
X8	FP STIFTL.WIN 3P.R2,54 ANGLE PIN CONNECTOR	FP 0009.7408.00			
X9	FP STIFTLISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X10	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X11	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	90MMCX-S50-0-51/1190	
X12	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	90MMCX-S50-0-51/1190	
X13	FP STIFTLISTE 5P.R2,54 PIN CONNECTOR	FP 0009.6153.00			
X31	FP STECKERLEISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X301	FJ EINBAUWINKELST. SMC ANGLE CONNECTOR	FJ 0249.9684.00	IMS	82.1524.201	
X400	FP STIFTLISTE 8P.R2,54 PIN CONNECTOR	FP 0009.6182.00			
Z1 ..4	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z5	LD T-FILTER 33PF SMD SMD-T-FILTER 33PF	1062.6744.00	MURATA	NFM61ROOT330	
Z6	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z7	LD T-FILTER 33PF SMD SMD-T-FILTER 33PF	1062.6744.00	MURATA	NFM61ROOT330	

1CMK	510 3PU-D	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
		38	16.02.98	EE RF_SYNTHEISIZER	1051.2307.01 SA	32+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
Z8	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z9	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z10	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z11	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z12	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z13	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z14	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z15	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z16	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
..25					
Z26	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z27	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
..30					
Z31	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z32	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z33	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
..37					
Z38	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z39	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z40	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z41	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z42	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
..45					
Z46	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z47	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z48	LD T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z49	LD T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
..52					

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		38	16.02.98	EE RF_SYNTHESIZER	1051.2307.01 SA	33-



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC_MODEL VARO4=AUSF.F.TETRA MODO4=MODEL F. TETRA				
C1	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C9	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C15	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C16	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C23	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
. . 27					
C38	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
D1	BL PC74HCT157T 4X2IN MUX QUAD 2INPUT MULTIPLEXER	BL 0007.6404.00	PHILIPS_SE	(PC)74HCT157(D/T)	
D14	HS FPGA TX CORR. NUR VAR/ONLY MOD: 02	1051.2936.00			
D14	HS FPGA TX CORR. NUR VAR/ONLY MOD: 04	1051.2942.00			
D26	BJ AD7228ACP MUX-8X8B-DAC IC D/A CONVERTER	1051.4874.00	ANALOG_DEV	AD7228ACP	
D27	BJ AD7837AR2X12B.MPY-DAC IC DUAL 12B DAC	1051.4880.00	ANALOG_DEV	AD7837AR (BR)	
D36	BC AM29F010 10% FL.EPROM IC MEMORY NUR VAR/ONLY MOD: 02	1050.0769.00	AMD	AM29F010-55JI	
D36	BC AM29F040 10% FL.EPROM IC MEMORY NUR VAR/ONLY MOD: 04	0009.6818.00	AMD	AM29F040B-120JC	
L9	LD 10UH 10% 0.18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
R1	RG 10,0KOHM+-1%*100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R2	RG 1,0 KO +-1%*100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R9	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R10	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R11	RG 1,0 KO +-1%*100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R16	RG 1,0 KO +-1%*100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R20	RG 10,0KOHM+-1%*100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R21	RG 10,0KOHM+-1%*100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R28	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R29	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
X2	FP BUCHSELEISTE 30POL. SOCKET CONNECTOR	FP 0283.1830.00	DUPONT CON	76325-...	
X3	FP BUCHSELEISTE 30POL. SOCKET CONNECTOR	FP 0283.1830.00	DUPONT CON	76325-...	

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	07	16.02.98	EE TX_CORRECTION_BOARD	1051.2907.01 SA	1-	



XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

- Part:** Bauelement-Kennzeichen.
- Side:** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- X/Y:** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG:** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part:** Identification of instrument part.
- Side:** Side of the PC board on which instrument part is positioned.
- X/Y:** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG:** Square and page of the diagram for the respective instrument part.



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
L169	B	201	50	7C	10	R5	B	81	124	5C	7	X8	B	98	69	6B	11
P3	B	192	10	7B	10	R462	B	224	17	3C	10	X9	B	137	121	3E	8
P4	B	231	29	3A	10	R594	B	149	137	9E	8	X10	B	204	13	5C	10
P7	B	45	55	6A	15	X1	B	153	97	5A	8	X11	B	147	115	4D	8
P8	B	196	39	8C	10	X2	B	96	67	9D	11	X12	B	244	87	11C	3
P9	B	192	13	9B	10	X3	B	142	36	11D	11	X13	B	218	79	9C	3
P10	B	156	116	8E	8	X4	B	223	26	7E	10	X31	B	132	11	2C	2
P11	B	152	125	10E	8	X5	B	71	105	1A	14	X301	B	225	123	12D	2
P12	B	45	52	5A	15	X6	B	19	83	11B	14	X400	B	241	45	11E	10
P13	B	173	86	7E	3	X7	B	101	69	6B	11						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
B1-A	B	27	11	4D	13	C34	B	21	77	11A	14	C71	B	19	31	7E	14
B1-B				3F	13	C35	B	81	87	6B	14	C72	A	16	29	7A	14
B2	B	151	87	5B	8	C36	A	35	72	10C	14	C73	B	24	122	7B	13
B3	B	186	135	2D	6	C37	A	35	77	10C	14	C74	A	55	38	5B	14
B4	B	217	26	3D	10	C38	B	197	120	4C	6	C75	A	67	32	5B	14
B5	B	217	49	7D	10	C39	B	194	124	4C	6	C76	A	58	35	5D	14
C1	B	118	28	2F	2	C40	B	34	128	8B	13	C77	B	79	66	6D	14
C2	B	138	28	2E	2	C41	B	194	121	4C	6	C78	A	54	89	6B	14
C3	B	133	28	2E	2	C42	B	197	123	4C	6	C79	B	54	86	5C	14
C4	B	123	28	2D	2	C43	B	197	116	5C	6	C80	B	49	79	4B	14
C5	B	128	28	2D	2	C44	A	191	139	2B	6	C81	A	62	69	4E	14
C6	B	187	106	7B	6	C45	A	196	105	8B	6	C82	A	70	70	4E	14
C7	A	191	108	7B	6	C46	B	51	65	4C	15	C83	A	70	80	4E	14
C8	A	36	94	3B	13	C47	A	46	71	3C	15	C84	B	19	114	6B	13
C9	A	65	53	7C	15	C48	A	46	115	3E	16	C85	A	67	81	3E	14
C10	B	201	107	7C	6	C49	A	32	104	2B	13	C86	A	61	48	2F	14
C11	B	192	113	5C	6	C50	B	76	90	3B	14	C87	A	72	48	1F	14
C12	B	194	116	5C	6	C51	B	15	107	7B	13	C88	B	54	98	3B	14
C13	B	46	115	2B	16	C52	A	23	57	11E	14	C89	B	66	99	2A	14
C14	A	68	126	5E	7	C53	A	13	78	11D	14	C90	B	66	97	2A	14
C15	A	106	118	7D	7	C54	A	16	81	11E	14	C91	B	72	97	2A	14
C16	B	97	121	8C	7	C55	B	30	69	10D	14	C92	B	59	104	2B	14
C17	B	97	123	8C	7	C56	A	31	76	10C	14	C93	A	56	69	3E	15
C18	B	35	11	5E	13	C57	A	23	72	11B	14	C94	A	81	47	7C	15
C19	B	26	104	5B	13	C58	B	22	75	11A	14	C95	B	19	97	6C	13
C20	B	37	110	4B	13	C59	B	15	54	9B	14	C96	A	65	32	7C	15
C21	B	37	97	4B	13	C60	B	15	63	10B	14	C97	A	50	46	7C	15
C22	B	113	38	3C	11	C61	B	21	64	10A	14	C98	B	22	110	5B	13
C24	A	27	94	3B	13	C62	B	16	121	7B	13	C99	B	108	36	2B	11
C25	A	20	8	2F	13	C63	B	21	55	9A	14	C100	B	129	59	4D	11
C26	B	20	10	2F	13	C64	A	27	29	9E	14	C101	A	137	57	4E	11
C27	A	33	20	3E	13	C65	A	35	51	9E	14	C102	A	125	57	4F	11
C28	A	22	17	3E	13	C66	B	30	54	9D	14	C103	B	125	61	4E	11
C29	B	37	120	8B	13	C67	B	15	43	9B	14	C104	B	115	38	3B	11
C30	B	31	8	2D	13	C68	B	33	43	8E	14	C105	B	102	31	2B	11
C31	A	36	8	2E	13	C69	B	29	31	8E	14	C106	B	97	32	2E	11
C32	A	33	100	2B	13	C70	B	31	57	7E	14	C107	B	94	29	2F	11

ROHDE & SCHWARZ	AEI	Datum Date		XY-Liste fuer XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		02 17.02.95		RF_SYNTHESIZER	1051.2307.01 XY	1+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C108	B	99	32	2E	11	C163	A	156	93	2B	8	C218	B	222	118	3F	6
C109	B	106	74	5D	12	C164	B	167	99	8A	8	C219	A	192	86	4A	3
C110	A	125	64	7D	12	C165	B	163	70	8A	8	C220	B	232	87	10C	3
C111	B	136	74	7D	12	C166	B	163	103	8B	8	C221	B	238	73	6B	3
C112	A	125	67	7D	12	C167	B	159	104	9B	8	C222	B	211	111	1F	6
C113	A	129	70	2B	12	C168	B	141	120	4D	8	C223	A	237	91	10D	3
C114	A	221	11	3D	10	C169	B	151	97	5A	8	C224	A	236	86	10D	3
C115	B	103	129	8D	7	C170	B	154	127	5C	8	C225	A	244	91	11D	3
C116	B	104	27	2C	11	C171	A	147	127	5C	8	C226	B	219	115	10E	5
C117	B	94	32	2D	11	C172	B	152	127	6C	8	C227	B	222	80	8C	3
C118	B	99	29	2D	11	C173	B	152	113	7D	8	C228	B	231	86	10D	3
C119	B	97	29	2E	11	C174	B	162	116	8D	8	C229	B	237	68	7A	3
C120	B	108	34	3C	11	C175	B	154	112	7D	8	C230	A	197	86	4B	3
C121	A	218	13	4D	10	C176	B	154	120	7D	8	C231	B	242	82	12D	3
C122	B	101	129	8D	7	C177	B	158	40	3F	9	C232	A	192	75	5E	3
C123	A	81	130	7A	7	C178	B	163	40	4B	9	C233	A	187	75	5D	3
C124	A	114	133	10C	7	C179	B	153	41	4B	9	C234	A	212	77	8D	3
C125	B	106	138	11D	7	C180	B	160	87	6B	8	C235	A	207	74	8D	3
C126	A	72	123	5F	7	C181	B	155	58	2B	9	C236	A	264	69	3E	4
C127	B	92	116	5C	7	C182	B	150	50	2B	9	C237	B	249	83	4D	4
C128	B	90	132	5D	7	C183	B	166	55	4D	9	C238	B	254	82	4C	4
C129	B	202	51	6C	10	C184	A	156	61	5D	9	C239	B	250	93	3D	4
C130	A	175	132	4D	6	C185	B	164	130	9D	8	C240	B	264	78	6D	4
C131	B	119	118	10B	7	C186	A	162	58	5D	9	C241	B	111	38	3B	11
C132	A	186	133	4D	6	C187	A	149	52	4E	9	C242	B	229	105	10D	5
C133	B	119	134	10E	7	C188	A	166	51	2F	9	C243	B	261	73	5D	4
C134	A	196	142	1B	6	C189	A	152	36	2D	9	C244	B	264	87	6D	4
C135	B	102	121	7C	7	C190	A	159	30	2D	9	C245	B	237	103	9D	5
C136	B	96	129	7D	7	C191	B	151	36	4B	9	C246	B	220	105	10D	5
C137	A	68	128	5F	7	C192	B	163	31	3F	9	C247	A	257	114	5E	5
C138	B	106	122	7E	7	C193	B	164	22	4F	9	C248	A	229	105	9E	5
C139	B	92	118	7F	7	C194	A	151	24	5F	9	C249	B	211	114	2F	6
C140	B	90	134	8E	7	C195	B	156	44	2F	9	C250	B	209	128	3E	6
C141	B	104	136	8F	7	C196	A	153	103	2A	8	C251	B	215	117	3E	6
C142	B	119	120	10B	7	C197	A	159	10	8D	9	C252	B	109	27	2A	11
C143	A	114	111	2A	7	C198	B	155	10	8B	9	C253	B	199	139	2C	6
C144	A	120	111	2A	7	C199	B	156	87	6B	8	C254	B	212	128	3F	6
C145	A	126	111	2B	7	C200	B	144	123	4C	8	C255	B	265	108	4D	5
C146	A	106	124	8E	7	C201	B	161	112	7D	8	C256	B	273	101	3D	5
C147	A	107	111	8F	7	C202	A	137	112	6E	8	C257	B	265	117	4D	5
C148	B	203	40	7D	10	C203	B	152	137	6C	8	C258	B	255	118	6D	5
C149	B	180	47	11C	10	C204	B	155	131	10D	8	C259	B	259	123	6D	5
C150	B	155	41	4B	9	C205	B	162	138	10D	8	C260	B	255	109	7D	5
C151	B	149	123	6D	8	C206	B	174	128	11C	8	C261	B	200	102	5C	3
C152	A	162	97	2B	8	C207	B	164	123	9D	8	C262	B	213	87	6C	3
C153	B	166	111	8D	8	C208	A	234	76	8B	3	C263	B	213	91	6C	3
C154	A	162	119	11B	8	C209	A	215	126	3E	6	C264	B	227	91	7C	3
C155	A	154	133	11C	8	C210	B	189	134	3B	6	C265	A	234	48	2B	10
C156	B	151	90	5B	8	C211	B	222	95	6C	3	C266	B	196	8	8B	10
C157	B	153	89	5B	8	C212	A	184	93	6D	3	C267	B	198	8	8B	10
C158	B	162	81	7C	8	C213	B	241	91	11C	3	C268	A	101	51	5F	11
C159	B	162	74	7B	8	C214	A	209	117	3E	6	C269	A	61	119	3E	16
C160	B	159	94	7A	8	C215	B	237	95	10C	3	C270	B	61	140	4C	16
C161	B	157	72	7C	8	C216	B	189	139	2B	6	C271	B	60	131	4C	16
C162	B	165	88	7B	8	C217	B	188	136	2B	6	C272	B	53	131	3C	16

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C273	B	52	131	3C	16	C328	A	193	25	6E	10	C384	A	81	124	8A	7
C274	B	52	136	3C	16	C329	A	180	31	4E	10	C386	B	16	48	9B	14
C275	B	186	22	3E	10	C330	A	222	37	8E	10	C387	B	140	133	5E	8
C276	B	15	72	10B	14	C331	A	232	11	3C	10	C389	A	79	115	7E	7
C277	B	199	136	2C	6	C332	B	228	7	3C	10	C390	B	200	123	3B	6
C278	B	15	45	9B	14	C333	A	210	23	4D	10	C391	B	175	125	3B	6
C279	B	96	51	6F	11	C334	B	181	13	5B	10	C392	B	176	120	4B	6
C280	A	180	19	3E	10	C335	B	180	11	5B	10	C393	B	183	117	4B	6
C281	A	124	44	7F	11	C336	A	100	74	2C	12	C394	B	181	114	5A	6
C282	A	137	36	7F	11	C337	B	125	74	2E	12	C395	B	183	112	5B	6
C283	B	116	34	3A	11	C338	B	115	75	2F	12	C396	B	176	109	5B	6
C284	B	108	37	2C	11	C339	B	111	79	6E	12	C397	B	184	105	7B	6
C285	B	101	91	8E	12	C340	B	111	91	7E	12	C399	B	274	84	7E	4
C286	B	154	104	4D	8	C341	B	136	93	8E	12	C400	B	274	117	4E	5
C287	B	153	86	5B	8	C342	B	120	83	7E	12	C401	B	219	91	6C	3
C288	A	188	23	3E	10	C343	B	132	83	8E	12	C402	A	123	68	4E	12
C289	B	212	49	7E	10	C344	B	204	82	7D	3	C403	A	111	63	4F	12
C290	B	137	37	6F	11	C345	A	178	86	5A	3	C404	B	22	49	9A	14
C291	A	203	17	2E	10	C346	A	183	86	5B	3	C405	B	25	70	10A	14
C292	A	201	25	2E	10	C347	B	257	92	3D	4	C406	B	23	46	9A	14
C293	B	201	29	8B	10	C348	B	273	70	6D	4	C407	B	60	130	2C	16
C294	B	195	16	10B	10	C349	B	255	84	3C	4	C408	A	118	88	1B	12
C295	B	229	36	2A	10	C350	B	255	78	4C	4	C409	B	48	124	2C	16
C296	A	221	20	4E	10	C351	B	250	70	4D	4	C410	B	57	129	2C	16
C297	A	207	23	10B	10	C352	B	262	80	6C	4	C411	B	60	114	3B	16
C298	A	110	74	2E	12	C353	B	267	88	6C	4	C412	B	62	123	2A	16
C299	B	199	134	3C	6	C354	B	262	88	7C	4	D1-A	A	13	10	4D	13
C300	A	141	90	11D	12	C355	B	265	93	7D	4	D1-B				4E	13
C301	A	213	26	10A	10	C356	B	263	109	4C	5	D1-C				2F	13
C302	B	184	124	3A	6	C357	B	265	101	3D	5	D2-A	B	77	84	6C	14
C303	A	127	81	4E	12	C358	B	269	112	4C	5	D2-B				6C	14
C304	B	138	98	5E	12	C359	B	261	118	4C	5	D2-C				6A	14
C305	A	216	29	11B	10	C360	B	264	125	5D	5	D2-D				6A	14
C306	B	212	35	4E	10	C361	B	250	127	6D	5	D2-E				6B	14
C307	A	210	41	6D	10	C362	B	259	117	6C	5	D3-A	B	38	57	8C	14
C308	A	111	30	6F	11	C363	B	251	114	6C	5	D3-B				10E	14
C309	B	205	41	7C	10	C364	B	257	108	7C	5	D3-C				10E	14
C310	B	209	43	7D	10	C365	B	253	103	7D	5	D3-D				10D	14
C311	B	215	42	7D	10	C366	B	235	116	9D	5	D3-E				9E	14
C312	A	102	80	6E	12	C367	B	229	101	10C	5	D4-A	B	34	33	8A	14
C313	B	204	32	8D	10	C368	B	225	108	10C	5	D4-B				9D	14
C314	B	247	48	3B	10	C369	B	218	102	10C	5	D4-C				9E	14
C315	B	197	40	8C	10	C370	B	212	105	11D	5	D4-D				9E	14
C316	A	204	41	7C	10	C371	B	237	84	11C	3	D4-E				9E	14
C317	B	198	49	6C	10	C372	A	89	134	9E	7	D5-A	B	38	46	8C	14
C318	A	196	47	6C	10	C373	A	89	112	8E	7	D5-B				8C	14
C319	B	187	36	9C	10	C374	A	83	112	8E	7	D5-C				8E	14
C320	A	208	32	9C	10	C375	A	83	138	9E	7	D6-A	B	23	33	8A	14
C321	B	192	41	8B	10	C376	B	122	134	9E	7	D6-B				8B	14
C322	A	205	36	9D	10	C377	B	122	117	10E	7	D6-C				8E	14
C323	B	183	41	9C	10	C378	B	111	128	9E	7	D7-A	A	30	53	7C	14
C324	A	180	44	5E	10	C379	B	116	112	10E	7	D7-B				7C	14
C325	A	248	50	3C	10	C381	A	117	128	10C	7	D7-C				7E	14
C326	B	187	46	10C	10	C382	A	127	128	10B	7	D8-A	A	18	29	7A	14
C327	B	181	34	11D	10	C383	A	91	124	8A	7	D8-B				7B	14

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D8-C				7E	14	D25-A	A	100	90	2C	7	D46-B				6E	12
D9-A	A	70	50	2D	14	D25-B				2E	7	D47-A	B	116	81	5A	12
D9-B				2D	14	D26	B	191	109	8B	6	D47-B				5B	12
D9-C				2D	14	D27	B	50	45	5A	15	D47-C				5B	12
D9-D				2E	14	D29	B	149	131	4D	8	D47-D				5B	12
D9-E				2F	14	D30-A	A	158	37	3D	9	D47-E				6E	12
D10-A	A	55	50	2B	14	D30-B				1F	9	D48-A	B	116	94	7A	12
D10-B				2C	14	D31-A	B	156	31	6B	9	D48-B				7E	12
D10-C				2C	14	D31-B				6B	9	D49-A	B	105	94	5C	12
D10-D				2C	14	D31-C				3F	9	D49-B				5C	12
D10-E				1F	14	D32-A	B	156	21	6B	9	D49-C				9E	12
D11-A	B	58	75	4B	14	D32-B				7A	9	D49-D				9E	12
D11-B				3F	14	D32-C				7A	9	D49-E				8E	12
D12	B	61	97	2A	14	D32-D				7B	9	D50-A	B	133	86	8C	12
D13-A	A	47	75	3C	15	D32-E				7B	9	D50-B				8E	12
D13-B				4C	15	D32-F				7B	9	D51-A	B	125	86	7B	12
D13-C				2C	15	D32-G				4F	9	D51-B				7E	12
D13-D				4C	15	D33-A	A	160	23	7C	9	D52-A	B	128	76	4D	12
D13-E				4C	15	D33-B				7D	9	D52-B				3E	12
D13-F				4E	15	D33-C				5F	9	G1	B	207	84	6D	3
D13-G				3E	15	D34-A	A	258	72	2B	4	L1	A	119	28	3F	2
D14	B	191	142	1B	6	D34-B				3C	4	L2	B	141	14	2E	2
D15-A	B	74	114	4B	7	D34-C				5B	4	L3	B	137	14	2E	2
D15-B				4C	7	D34-D				5C	4	L4	A	135	28	3E	2
D15-C				4C	7	D34-E				3E	4	L5	B	126	21	2D	2
D15-D				4C	7	D37-A	A	220	105	9B	5	L6	A	30	65	10D	14
D15-E				5F	7	D37-B				9C	5	L7	A	119	20	2D	2
D16-A	B	74	128	4D	7	D37-C				11D	5	L8	A	123	28	3D	2
D16-B				4D	7	D37-D				11E	5	L9	B	131	21	2D	2
D16-C				4E	7	D37-E				9E	5	L10	A	126	20	2D	2
D16-D				4E	7	D38-A	A	248	112	3B	5	L11	A	127	28	3D	2
D16-E				6F	7	D38-B				3C	5	L12	A	112	20	2F	2
D17-A	A	69	111	3D	7	D38-C				5B	5	L13	A	29	92	3B	13
D17-B				3D	7	D38-D				5C	5	L14	B	13	66	10B	14
D17-C				7F	7	D38-E				5E	5	L15	B	19	48	9A	14
D18-A	A	118	91	2D	7	D39-A	A	201	18	8B	10	L16	B	13	48	9B	14
D18-B				1E	7	D39-B				2F	10	L17	A	142	28	3E	2
D19-A	B	111	43	4B	11	D40-A	B	183	20	6B	10	L18	A	138	28	3E	2
D19-B				5F	11	D40-B				6F	10	L19	B	136	21	2E	2
D20-A	B	134	41	7B	11	D40-C				5B	10	L20	A	135	14	2E	2
D20-B				7F	11	D40-D				6B	10	L21	A	135	18	2E	2
D21-A	A	102	30	2A	11	D40-E				3F	10	L22	A	131	28	3E	2
D21-B				2B	11	D41-A	A	189	18	7B	10	L23	A	62	76	1E	14
D21-C				2B	11	D41-B				3F	10	L24	B	37	126	8B	13
D21-D				2C	11	D42-A	B	215	32	9E	10	L25	A	56	97	2A	14
D21-E				6F	11	D42-B				4F	10	L26	A	76	61	3E	15
D22-A	A	110	44	6B	11	D44-A	A	189	46	9D	10	L27	A	69	44	6C	15
D22-B				7F	11	D44-B				10D	10	L28	A	62	114	2E	16
D23-A	A	69	131	4B	7	D44-C				5F	10	L29	B	58	135	4C	16
D23-B				6F	7	D45-A	A	196	35	2D	10	L30	B	52	133	3C	16
D24-A	A	128	37	5A	11	D45-B				3D	10	L31	B	55	133	3C	16
D24-B				7B	11	D45-C				3E	10	L32	B	61	126	2C	16
D24-C				5E	11	D45-D				3E	10	L33	A	27	65	10D	14
D24-D				5E	11	D45-E				6F	10	L34	A	111	36	3B	11
D24-E				7F	11	D46-A	B	105	80	4A	12	L35	B	15	110	6B	13

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
L36	A	21	77	10C	14	L98	A	179	69	2D	3	L160	B	259	121	6D	5
L37	B	13	57	9B	14	L99	A	211	123	3E	6	L161	B	261	121	4D	5
L38	B	19	57	9A	14	L100	B	209	125	3E	6	L162	B	261	105	4D	5
L39	A	65	72	3E	14	L101	B	222	91	6C	3	L163	A	205	70	2F	3
L40	B	152	116	7D	8	L102	B	230	91	9C	3	L166	A	217	91	6B	3
L44	B	18	94	5B	13	L103	B	237	90	11C	3	L167	B	240	58	1A	10
L45	B	33	97	4B	13	L104	B	217	120	3E	6	L168	A	204	46	6C	10
L46	B	30	111	5A	13	L105	A	213	114	3E	6	L170	A	220	44	7D	10
L47	B	35	18	6D	13	L106	B	105	30	3C	11	L171	A	197	51	6D	10
L48	A	28	17	3E	13	L107	A	104	41	3A	11	L172	B	192	39	8C	10
L49	B	19	66	10A	14	L108	B	185	105	7B	6	L173	A	212	36	8D	10
L50	A	114	114	2A	7	L109	A	184	69	2D	3	L174	B	184	47	10C	10
L51	A	140	100	1B	7	L110	B	182	107	7B	6	L175	B	190	29	10B	10
L52	A	120	114	2A	7	L111	B	111	31	3A	11	L176	A	187	50	5E	10
L53	A	126	114	2B	7	L112	A	110	41	3C	11	L177	A	192	22	6E	10
L54	B	191	134	2B	6	L113	B	201	110	7C	6	L178	B	255	58	1B	10
L55	B	196	136	2C	6	L114	B	248	95	12C	3	L179	A	184	34	4E	10
L56	B	182	124	3A	6	L115	B	234	113	9D	5	L180	B	216	51	7D	10
L57	B	200	125	3C	6	L116	B	254	91	3D	4	L181	B	260	58	1B	10
L58	B	180	105	6B	6	L117	B	252	73	4D	4	L182	B	232	39	3A	10
L59	B	100	124	8C	7	L118	B	271	73	6D	4	L183	B	180	21	5B	10
L60	B	106	127	9D	7	L119	A	121	36	6E	11	L184	B	186	25	3E	10
L61	B	164	105	8B	8	L120	B	268	93	7D	4	L185	B	192	18	9B	10
L62	B	163	114	8D	8	L121	A	189	69	2E	3	L186	B	200	21	10B	10
L63	A	129	100	1A	7	L122	B	213	107	10D	5	L187	B	196	21	10B	10
L64	A	136	100	1A	7	L124	B	222	108	10D	5	L188	A	105	65	2C	12
L65	A	163	71	2A	8	L125	A	102	44	5E	11	L189	A	109	66	2E	12
L66	B	149	93	5B	8	L126	A	95	45	2D	11	L195	B	224	93	6C	3
L67	B	165	97	8B	8	L127	A	95	60	2D	11	L196	A	198	82	5E	3
L68	B	164	68	8B	8	L128	A	95	57	2E	11	L197	B	210	88	5C	3
L69	B	162	101	8B	8	L129	A	95	41	2E	11	N1	B	29	122	7B	13
L70	B	163	105	8B	8	L130	A	95	49	2E	11	N2-A	A	177	131	6E	6
L71	B	158	104	9B	8	L131	A	95	53	2F	11	N2-B				4D	6
L72	B	152	131	6D	8	L132	B	200	105	7C	6	N2-C				3D	6
L74	A	159	27	3C	9	L134	B	267	84	6C	4	N3-A	B	18	77	11B	14
L75	A	162	27	3B	9	L135	B	216	102	10D	5	N3-B				11E	14
L76	A	157	112	3B	8	L136	B	231	102	10D	5	N4-A	A	62	34	5D	14
L77	B	165	42	3D	9	L137	A	194	69	2E	3	N4-B				5E	14
L78	B	162	51	4D	9	L138	B	261	91	7C	4	N4-C				5B	14
L79	B	165	52	4D	9	L139	B	261	76	6C	4	N5	B	52	124	2C	16
L80	A	163	34	2D	9	L140	B	252	78	4D	4	N6	B	50	115	2B	16
L81	A	151	11	8D	9	L146	B	252	86	3D	4	N7	B	190	128	3B	6
L82	B	164	10	8B	9	L147	B	268	103	3D	5	N8-A	B	84	116	5B	7
L85	A	153	27	3B	9	L148	B	266	126	4D	5	N8-B				8E	7
L86	A	166	78	2D	8	L149	B	199	109	6C	6	N9-A	B	82	133	5D	7
L87	B	164	126	9C	8	L150	B	268	114	4D	5	N9-B				9E	7
L88	B	134	118	2D	8	L151	B	253	126	6D	5	N10	A	117	121	10C	7
L89	B	137	136	2E	8	L152	B	177	117	4B	6	N11	A	83	127	8A	7
L90	B	134	128	2E	8	L153	B	177	114	5B	6	N12	A	83	117	8B	7
L92	B	162	129	9C	8	L154	B	185	109	5B	6	N13	A	117	130	10B	7
L93	B	158	131	10D	8	L155	B	188	114	5C	6	N14-A	B	112	118	10A	7
L94	B	157	134	10C	8	L156	B	252	112	6D	5	N14-B				10E	7
L95	B	160	136	10D	8	L157	B	250	103	7D	5	N15-A	B	112	135	10D	7
L96	B	161	135	10C	8	L158	A	199	69	2E	3	N15-B				9E	7
L97	B	155	91	6B	8	L159	B	259	105	7D	5	N16-A	B	132	48	9D	11

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
N16-B				9E	11	R8	A	27	11	3D	13	R63	A	29	45	7C	14
N16-C				11E	11	R9	A	33	108	5C	13	R64	A	34	64	7C	14
N17-A	A	162	104	2B	8	R10	B	22	116	7B	13	R65	A	32	31	7A	14
N17-B				2B	8	R11	B	14	99	6B	13	R66	A	32	34	7A	14
N17-C				2A	8	R12	B	17	97	5B	13	R67	A	71	39	4D	14
N18-A	A	154	122	7E	8	R13	B	26	102	5B	13	R68	A	62	28	6E	14
N18-B				9E	8	R14	B	36	100	4B	13	R69	A	58	44	5D	14
N18-C				11B	8	R15	B	35	111	4A	13	R70	A	72	45	6D	14
N19-A	A	157	51	4D	9	R16	A	35	31	7D	13	R71	B	57	89	5C	14
N19-B				2F	9	R17	B	20	16	5E	13	R72	A	54	86	6C	14
N20-A	B	156	37	4B	9	R18	B	15	20	4E	13	R73	A	35	116	8A	13
N20-B				3F	9	R19	B	34	15	4D	13	R74	B	68	89	6C	14
N21	B	52	140	3C	16	R20	A	27	14	3D	13	R75	B	68	86	5C	14
N22-A	B	197	86	3A	3	R21	A	35	17	3D	13	R76	B	46	84	4B	14
N22-B				5D	3	R22	A	35	14	2E	13	R77	B	48	84	4B	14
N22-C				4A	3	R23	B	79	132	5C	7	R78	B	54	84	4B	14
N23	B	207	77	7D	3	R24	B	90	118	5B	7	R79	A	58	74	4B	14
N24	B	211	118	2F	6	R25	B	87	118	5B	7	R80	A	61	80	4B	14
N25	B	214	125	3F	6	R26	B	82	115	5B	7	R81	B	50	79	4B	14
N27-A	B	117	74	2D	12	R27	A	74	123	7A	7	R82	B	50	81	4B	14
N27-B				4D	12	R28	A	77	127	7A	7	R83	A	81	89	3E	14
N27-C				2E	12	R29	A	78	130	7A	7	R84	B	22	124	7B	13
N28	B	196	132	3C	6	R30	A	81	122	8B	7	R85	A	81	86	3E	14
N30-A	B	125	99	8A	12	R31	B	69	125	4E	7	R86	A	81	84	3E	14
N30-B				8B	12	R32	A	82	115	8B	7	R87	A	81	71	3E	14
N30-C				3E	12	R33	B	45	62	8D	14	R88	A	81	74	3E	14
N31-A	A	232	69	8A	3	R34	A	177	105	4B	6	R89	A	81	76	3E	14
N31-B				6A	3	R35	B	180	114	4A	6	R90	A	81	79	3E	14
N31-C				7A	3	R36	A	57	28	6E	14	R91	A	81	81	3E	14
N32-A	B	192	75	4E	3	R37	A	60	32	6E	14	R92	A	74	89	3B	14
N32-B				4D	3	R38	A	19	48	11E	14	R93	A	74	86	3B	14
N32-C				5D	3	R39	A	34	69	11D	14	R94	A	74	84	3B	14
N33	B	203	91	5C	3	R40	A	15	107	5C	13	R95	B	21	119	7B	13
N34-A	A	212	19	10B	10	R41	A	27	81	10C	14	R96	A	74	71	3B	14
N34-B				4F	10	R42	A	31	78	10C	14	R97	A	74	74	3B	14
N35-A	A	128	57	4D	11	R43	A	13	66	10B	14	R98	A	74	76	3B	14
N35-B				4F	11	R44	A	22	64	10B	14	R99	A	74	79	3B	14
N36	B	128	69	7D	12	R45	B	19	72	10B	14	R100	A	60	61	3C	14
N37-A	B	221	77	8D	3	R46	A	29	98	2B	13	R101	A	57	61	3C	14
N37-B				8E	3	R47	B	17	83	11A	14	R102	A	55	61	3C	14
N38-A	B	183	86	10A	3	R48	B	14	74	10B	14	R103	B	52	101	2B	14
N38-B				10B	3	R49	B	27	72	10A	14	R104	B	54	104	1B	14
N38-C				5A	3	R50	B	26	62	10D	14	R105	A	59	83	4E	15
N42-A	B	117	68	6D	12	R51	A	81	100	3C	13	R106	A	91	46	1D	15
N42-B				4E	12	R52	B	31	28	9D	14	R107	B	108	91	7A	12
P1	B	157	48	3D	9	R53	E	30	44	9C	14	R108	A	79	56	2D	15
P2	B	149	22	5B	9	R54	B	30	51	9C	14	R109	A	91	58	1D	15
P5	B	198	46	6C	10	R55	B	18	43	9B	14	R110	A	91	64	1C	15
P6	B	202	32	8D	10	R56	B	20	43	9A	14	R111	A	81	68	2C	15
R1	B	73	87	6A	14	R57	B	26	46	8C	14	R112	A	77	36	5D	15
R2	B	74	125	4C	7	R58	B	30	49	8D	14	R113	A	74	46	5D	15
R3	B	54	129	2C	16	R59	B	15	40	8B	14	R114	A	52	28	5B	15
R4	A	58	126	2B	16	R60	B	22	28	8A	14	R115	A	55	28	5A	15
R6	B	84	135	5D	7	R61	A	39	59	8D	14	R116	B	48	67	3C	15
R7	B	81	105	3C	13	R62	A	39	113	8A	13	R117	A	50	57	4C	15

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R118	A	49	86	4C	15	R173	B	113	123	10B	7	R229	A	156	58	4D	9
R119	A	74	81	3B	14	R174	B	112	126	9B	7	R230	A	154	48	4D	9
R120	A	19	54	11E	14	R175	B	117	126	11B	7	R231	A	162	81	3B	8
R121	A	29	72	9C	14	R176	B	74	111	3E	7	R232	A	152	52	4E	9
R122	A	72	61	3D	14	R177	B	122	115	11B	7	R233	A	153	61	5D	9
R123	A	65	61	3D	14	R178	B	122	131	11D	7	R234	A	157	33	2D	9
R124	A	62	61	3C	14	R179	B	82	138	4D	7	R235	A	154	55	5D	9
R125	A	104	51	6B	11	R180	B	83	122	5B	7	R236	A	162	62	5D	9
R126	A	105	57	5B	11	R181	A	150	101	3A	8	R237	A	153	58	5D	9
R127	A	107	57	5B	11	R182	A	154	76	3C	8	R238	A	153	38	3E	9
R128	B	209	109	1F	6	R183	A	153	72	3C	8	R239	A	155	41	2E	9
R129	B	109	115	10B	7	R184	A	166	84	2D	8	R240	A	155	43	2E	9
R130	B	108	123	9A	7	R185	B	190	114	5C	6	R241	A	165	30	2D	9
R131	B	113	121	10A	7	R186	B	195	111	6C	6	R242	A	160	91	2C	8
R132	A	112	127	9C	7	R187	A	177	116	8D	6	R243	A	162	48	3E	9
R133	A	112	133	9C	7	R188	A	183	112	8D	6	R244	B	149	34	5B	9
R134	A	118	118	10C	7	R189	B	161	122	8C	8	R245	B	149	31	5B	9
R135	A	114	126	10C	7	R190	B	164	124	9D	8	R246	B	153	34	4B	9
R136	B	209	111	1F	6	R191	B	164	134	11D	8	R247	B	150	24	5A	9
R137	B	108	121	9B	7	R192	A	164	93	2B	8	R248	B	165	25	6A	9
R138	B	109	127	10D	7	R193	B	150	120	6D	8	R249	B	166	27	6A	9
R139	B	123	125	10C	7	R194	B	166	134	11D	8	R250	B	153	24	6B	9
R140	B	108	137	10D	7	R195	B	165	133	11C	8	R251	A	163	14	6D	9
R141	B	113	137	10D	7	R196	A	135	112	2F	8	R252	A	157	90	2C	8
R142	A	107	133	10D	7	R198	B	159	43	4B	9	R253	A	165	17	2C	9
R143	B	106	133	9D	7	R199	B	151	39	4B	9	R254	A	163	20	7C	9
R144	B	95	113	6B	7	R200	B	159	100	3B	8	R255	A	151	18	7D	9
R145	A	108	88	2C	7	R201	A	150	72	5B	8	R256	B	164	16	7B	9
R146	A	95	126	7B	7	R202	B	156	94	7B	8	R257	A	175	93	10A	3
R147	A	99	129	7B	7	R203	B	159	91	7A	8	R258	A	180	105	4C	6
R148	A	106	122	7C	7	R204	B	160	89	6A	8	R259	B	217	116	10D	5
R149	A	99	131	7B	7	R205	B	157	92	6A	8	R260	B	213	101	10C	5
R150	B	92	110	2B	7	R206	B	161	83	6A	8	R261	B	212	104	11C	5
R151	A	93	137	7D	7	R207	B	161	90	7B	8	R262	B	226	116	9E	5
R152	A	99	134	7D	7	R208	B	164	81	7B	8	R263	B	236	135	8A	5
R153	A	99	137	7D	7	R209	B	160	81	7B	8	R264	B	235	127	8B	5
R154	B	91	127	6D	7	R210	B	152	102	3B	8	R265	B	221	115	10E	5
R155	B	209	114	2F	6	R211	B	210	136	1A	6	R266	B	224	115	10E	5
R156	A	182	119	3A	6	R212	B	163	92	7A	8	R267	A	215	112	9C	5
R157	A	195	121	3B	6	R213	B	153	92	5A	8	R268	B	219	110	10C	5
R158	A	180	122	4A	6	R214	B	156	74	8C	8	R269	B	190	123	4C	6
R159	B	230	118	4F	6	R215	B	160	72	8C	8	R270	A	209	110	10C	5
R160	B	230	120	4F	6	R216	B	165	90	8B	8	R271	A	229	109	11E	5
R161	B	177	106	6B	6	R217	B	163	89	8B	8	R272	B	230	123	4F	6
R162	B	175	106	6B	6	R218	B	162	94	8A	8	R273	A	187	115	7D	6
R163	B	178	105	6B	6	R219	B	163	72	8A	8	R274	A	187	108	7D	6
R164	B	195	102	8B	6	R220	B	159	68	8C	8	R275	A	199	107	7E	6
R165	B	193	102	8B	6	R221	A	162	93	2C	8	R276	B	214	89	5B	3
R166	B	198	102	8B	6	R222	B	143	121	4D	8	R277	B	262	103	3C	5
R167	B	198	111	6C	6	R223	A	160	88	3C	8	R278	A	264	105	3C	5
R168	B	197	113	6C	6	R224	B	152	59	2A	9	R279	A	196	115	7E	6
R169	A	186	105	5C	6	R225	B	165	58	3A	9	R280	B	261	109	4C	5
R170	A	127	90	2D	7	R226	B	150	59	2A	9	R281	B	274	107	4D	5
R171	A	184	105	5B	6	R227	B	155	62	2B	9	R282	B	275	119	4D	5
R172	B	180	111	5B	6	R228	A	152	46	3B	9	R283	B	263	117	4C	5

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R284	B	262	125	5C	5	R339	A	253	104	7C	5	R394	A	231	84	10D	3
R285	B	275	110	3E	5	R340	B	218	93	6C	3	R395	A	241	91	11D	3
R286	B	262	135	2A	5	R341	B	189	143	3D	6	R396	B	218	73	8D	3
R287	B	255	127	2B	5	R342	B	184	141	2D	6	R397	B	242	68	6B	3
R288	B	274	116	4E	5	R343	B	186	143	3D	6	R398	B	241	72	6B	3
R289	B	274	112	4E	5	R344	B	186	83	11A	3	R399	A	241	74	6B	3
R290	B	216	91	6C	3	R345	B	169	144	1D	6	R400	B	140	98	1F	8
R291	A	260	118	3C	5	R346	B	172	137	2D	6	R401	A	240	79	5A	3
R292	B	270	117	4C	5	R347	B	172	144	1D	6	R402	A	240	76	6A	3
R293	A	268	116	4C	5	R348	A	23	81	11D	14	R403	B	225	91	7C	3
R294	B	244	116	6E	5	R349	A	147	138	9E	8	R404	B	234	71	7A	3
R295	A	260	123	6C	5	R350	A	144	134	9E	8	R405	B	244	70	7A	3
R296	B	247	125	5C	5	R351	B	56	113	3B	16	R406	B	243	92	12C	3
R297	B	257	117	6C	5	R352	A	58	124	3A	16	R407	A	243	82	12D	3
R298	B	246	119	6D	5	R353	B	58	118	3B	16	R408	A	185	89	10A	3
R299	B	246	107	7D	5	R354	B	58	113	3B	16	R409	B	194	76	4E	3
R300	B	259	109	7C	5	R355	B	46	122	1B	16	R410	B	183	78	4D	3
R301	A	194	117	8E	6	R356	B	46	119	2B	16	R411	B	184	81	4D	3
R302	A	259	109	6C	5	R357	B	45	121	1B	16	R412	A	215	77	8D	3
R303	B	258	103	7C	5	R358	A	83	42	2D	15	R413	A	211	80	7D	3
R304	B	246	114	6E	5	R359	A	177	126	6E	6	R414	A	194	89	4A	3
R305	B	246	110	7E	5	R360	A	67	61	3E	14	R415	A	208	80	7D	3
R306	B	252	135	5A	5	R361	A	172	135	6E	6	R416	A	215	83	7D	3
R307	B	245	127	5B	5	R362	A	175	139	6E	6	R417	B	204	77	7D	3
R308	A	107	48	3B	11	R363	B	171	120	4A	6	R418	A	204	77	7E	3
R309	A	187	121	8E	6	R364	B	180	118	4B	6	R419	A	180	76	3D	3
R310	A	185	124	6D	6	R365	B	171	109	5A	6	R420	A	180	79	3D	3
R311	A	95	34	2D	11	R366	B	150	103	2E	8	R421	A	175	76	4E	3
R312	A	95	27	2F	11	R367	B	144	117	4C	8	R422	A	184	81	11B	3
R313	A	97	34	2E	11	R368	B	78	127	5C	7	R423	A	198	76	3F	3
R314	A	100	34	2E	11	R369	B	81	120	5C	7	R424	A	198	79	3F	3
R315	B	137	81	9D	12	R370	B	78	117	4B	7	R425	B	199	86	3A	3
R316	B	121	80	2D	12	R371	A	209	123	3E	6	R426	A	192	81	4E	3
R317	A	110	77	5D	12	R372	A	120	68	5D	12	R427	A	251	85	3B	4
R318	A	117	71	2D	12	R373	B	80	112	4B	7	R428	B	258	92	3C	4
R319	B	124	52	3B	11	R374	B	80	138	4D	7	R429	B	253	83	3C	4
R320	A	121	39	3B	11	R375	B	77	115	4B	7	R430	B	258	84	3D	4
R321	A	105	45	3C	11	R376	A	217	114	3E	6	R431	B	234	119	9C	5
R322	A	107	54	6B	11	R377	A	112	71	2D	12	R432	B	258	79	4D	4
R323	A	121	42	6B	11	R378	B	87	135	5D	7	R433	B	253	81	4C	4
R324	A	137	43	5E	11	R379	B	77	135	4D	7	R434	B	258	83	4D	4
R325	B	121	37	7A	11	R380	B	207	69	2A	3	R435	B	251	70	4C	4
R326	A	118	62	6D	12	R381	B	239	95	10C	3	R436	B	202	86	3B	3
R327	A	48	112	2E	16	R382	B	234	87	10C	3	R437	B	274	73	5C	4
R328	A	51	115	2E	16	R383	B	182	94	6D	3	R438	A	270	76	5C	4
R329	A	58	129	4E	16	R384	A	38	75	10C	14	R439	B	260	80	6C	4
R330	B	53	135	3C	16	R385	A	237	51	2A	10	R440	B	274	77	6D	4
R331	A	141	77	9C	12	R386	B	189	87	6D	3	R441	B	270	86	7D	4
R332	A	105	84	5E	12	R387	B	187	89	6D	3	R442	B	260	87	7C	4
R333	A	120	65	3D	12	R388	B	212	69	5E	3	R443	A	266	84	5C	4
R334	A	181	129	6D	6	R389	A	212	11	4D	10	R444	B	264	93	7C	4
R335	A	103	77	5E	12	R390	A	234	89	10D	3	R445	B	253	60	2A	4
R336	A	115	74	2D	12	R391	B	244	91	11C	3	R446	B	275	79	6E	4
R337	A	111	81	2D	12	R392	A	234	91	10D	3	R447	B	187	93	4B	3
R338	B	250	109	8C	5	R393	A	234	86	10D	3	R448	B	258	68	2B	4

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R449	B	258	60	5A	4	R505	B	231	12	5C	10	R561	A	145	114	7E	8
R450	B	263	68	5B	4	R506	A	180	38	9D	10	R562	A	273	123	3B	5
R451	B	274	86	7E	4	R507	A	195	44	9D	10	R563	A	245	105	6B	5
R452	B	272	80	6E	4	R508	B	181	37	10D	10	R564	A	219	103	9B	5
R453	B	269	80	6C	4	R509	A	187	7	6F	10	R565	A	270	87	5B	4
R454	A	270	78	7C	4	R510	A	187	31	3E	10	R566	A	253	78	4B	4
R455	A	233	106	9C	5	R511	A	219	42	8D	10	R567	A	178	76	4E	3
R456	B	234	101	10C	5	R512	A	226	34	8E	10	R568	A	210	62	8E	3
R457	B	229	115	10D	5	R513	A	226	23	2D	10	R569	A	229	70	8A	3
R458	A	237	45	2A	10	R514	A	230	13	2C	10	R570	A	224	76	9B	3
R459	A	215	11	4D	10	R515	A	232	13	3C	10	R571	A	227	74	9A	3
R460	A	210	13	4C	10	R516	A	227	17	2C	10	R572	B	237	76	8A	3
R461	B	229	10	4C	10	R517	B	148	120	6D	8	R573	B	229	69	8B	3
R463	A	224	23	3C	10	R518	B	150	116	7D	8	R574	A	241	85	11D	3
R464	A	226	11	3C	10	R519	A	107	27	2B	11	R575	A	239	88	11D	3
R465	B	181	15	5B	10	R520	B	158	116	7D	8	R576	B	223	87	9D	3
R466	B	186	10	5B	10	R521	A	115	33	1C	11	R577	B	228	86	9D	3
R467	B	189	10	6B	10	R522	B	157	112	7D	8	R578	B	217	68	8D	3
R468	B	184	8	6B	10	R523	B	156	110	8D	8	R579	B	219	71	8C	3
R469	A	240	48	2A	10	R524	B	153	123	7C	8	R580	A	223	86	9D	3
R470	A	180	7	6B	10	R525	B	158	123	8C	8	R581	B	197	74	4E	3
R471	A	199	34	9D	10	R526	B	161	117	8D	8	R582	B	201	131	2A	6
R472	B	194	10	7B	10	R527	B	102	33	2C	11	R583	B	212	138	1A	6
R473	A	203	23	2E	10	R528	A	161	112	8D	8	R584	B	201	141	2A	6
R474	B	201	12	9B	10	R529	A	141	131	5C	8	R585	A	136	50	9D	11
R475	A	221	13	4E	10	R530	B	134	44	6A	11	R586	A	133	52	9E	11
R476	A	207	26	10B	10	R531	A	124	39	7C	11	R587	A	130	50	9E	11
R477	A	203	29	10A	10	R532	A	100	27	2D	11	R588	A	136	55	9E	11
R478	A	216	31	11A	10	R533	A	97	27	2E	11	R589	A	145	111	7E	8
R479	A	222	31	11B	10	R534	A	121	76	3D	12	R590	A	140	112	7E	8
R480	B	252	51	2B	10	R535	B	125	79	4D	12	R591	A	135	118	6E	8
R481	A	226	29	11B	10	R536	B	144	119	5C	8	R592	A	142	117	6E	8
R482	A	232	31	8E	10	R537	A	132	64	8D	12	R593	A	161	129	10E	8
R483	A	207	49	6C	10	R539	B	108	78	4B	12	R595	A	161	135	9E	8
R484	A	208	45	6C	10	R540	B	130	99	8A	12	R596	A	164	125	9D	8
R485	A	214	41	6D	10	R541	B	127	101	8B	12	R597	B	163	99	7B	8
R486	B	207	41	7D	10	R542	A	119	83	7B	12	R598	A	141	123	6E	8
R487	B	209	49	7D	10	R543	A	103	72	2C	12	R599	B	36	79	10C	14
R488	B	200	32	8D	10	R544	A	110	72	2E	12	R600	B	26	84	12B	14
R489	B	207	34	8C	10	R545	A	132	104	9B	12	R601	B	31	76	11B	14
R490	B	196	36	8C	10	R546	A	141	96	9B	12	R602	B	33	76	11B	14
R491	A	260	51	2B	10	R547	A	138	93	9B	12	R603	A	79	97	11A	14
R492	B	195	41	8C	10	R548	A	127	83	11B	12	R604	A	13	83	11A	14
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R494	B	199	42	7C	10	R550	B	137	100	11D	12	R606	B	143	115	4D	8
R495	B	201	41	7C	10	R551	B	135	98	11D	12	R607	B	232	68	7A	3
R496	A	203	51	6D	10	R552	B	139	89	11D	12	R608	A	70	61	3D	14
R497	A	198	41	8B	10	R553	B	166	116	8D	8	R610	A	29	95	3B	13
R498	A	205	39	8C	10	R554	A	152	119	7E	8	R611	B	22	66	10A	14
R499	B	184	39	9C	10	R555	A	158	119	8E	8	R612	B	22	57	10A	14
R500	B	181	39	9C	10	R556	B	108	100	9E	12	R613	B	16	57	10B	14
R501	B	189	41	10C	10	R557	A	135	76	2B	12	R614	B	16	66	10B	14
R502	A	258	49	2B	10	R558	A	133	70	2B	12	R615	A	21	72	10B	14
R503	B	189	38	8C	10	R559	A	149	116	8E	8	U1-A	B	106	118	7B	7
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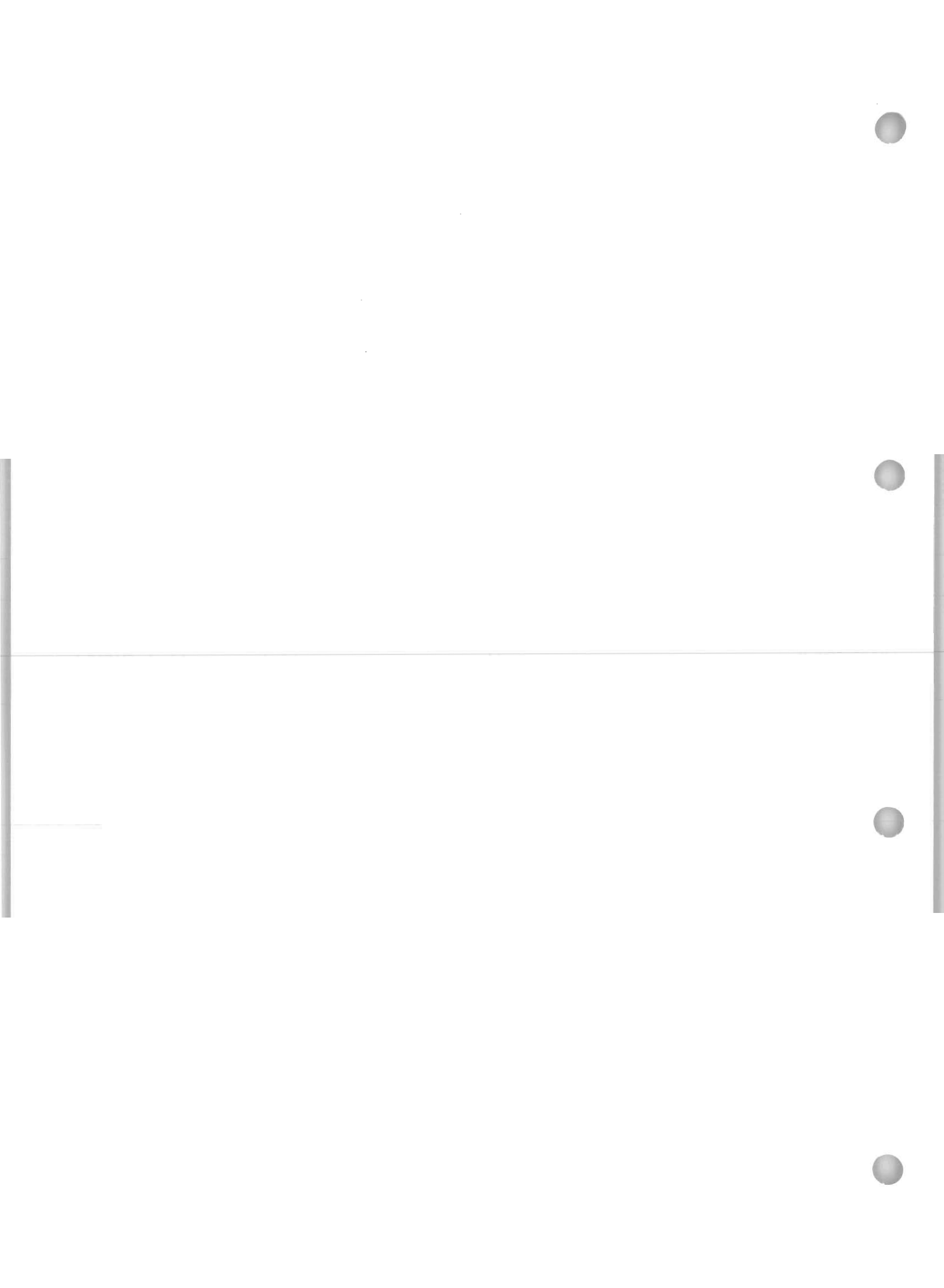
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		Date	XY-list for	Stock-Nr	Page
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	02	17.02.95		1051.2307.01 XY	9+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
U2-A	B	92	131	7D	7	V42	B	254	88	3D	4	V97	A	215	13	4D	10
U2-B				8F	7	V43	B	249	76	4D	4	V98	B	210	38	6C	10
U3-A	A	130	78	10B	12	V44	A	274	71	6C	4	V99	A	120	71	5D	12
U3-B				10B	12	V45	A	223	70	9A	3	V100	A	194	113	8E	6
U3-C				10C	12	V46	A	265	94	7B	4	V101	A	114	68	5D	12
U3-D				10C	12	V47	B	271	76	6D	4	V102	B	101	75	5E	12
U3-E				4E	12	V48	B	266	91	7D	4	V103	A	51	119	3E	16
U4-A	A	130	89	10D	12	V49-A	B	241	89	12C	3	V104	B	103	72	5E	12
U4-B				10D	12	V50	A	274	80	6C	4	V105	A	115	77	2D	12
U4-C				11D	12	V51	A	233	113	9C	5	V106	A	115	83	1D	12
U4-D				10D	12	V52	A	211	103	10B	5	V107	A	131	73	2B	12
U4-E				5E	12	V53	A	211	108	10C	5	V108	A	138	73	2B	12
U5-A	A	103	123	7C	7	V54	B	271	91	7D	4	V109	A	121	81	11E	3
U5-B				8F	7	V55	B	266	76	6D	4	V110	B	226	105	10D	5
V1	B	157	101	3B	8	V56	A	112	117	2A	7	V111	B	255	116	6D	5
V2	B	150	52	2B	9	V57	B	62	86	5C	14	V112	B	265	110	4D	5
V3	A	46	69	4C	15	V58	B	51	71	3C	15	V113	B	265	82	6D	4
V4	B	151	32	5B	9	V59	B	216	107	10D	5	V114	B	125	131	11D	7
V5	A	163	86	3B	8	V60	B	231	112	10D	5	V115	B	125	121	11A	7
V6	A	157	78	2C	8	V61	B	215	112	10D	5	V116	A	125	133	11B	7
V7	B	18	102	6B	13	V62	B	231	107	10D	5	V117	A	126	55	10E	11
V8	A	14	102	5C	13	V63	B	235	89	10C	3	V118	A	126	52	10E	11
V9	B	23	111	5B	13	V64	B	254	76	4D	4	V119	A	121	60	6D	12
V10	B	31	78	11C	14	V65	B	225	71	9C	3	V120	B	175	112	5B	6
V11	A	13	50	11E	14	V66	B	266	121	4D	5	V121	B	190	121	4C	6
V12	A	31	84	11C	14	V67	B	271	105	4D	5	V122	A	190	122	8E	6
V13	A	16	68	10B	14	V68	B	249	121	6D	5	V123	A	177	121	4A	6
V14	A	33	81	11C	14	V69	A	266	103	3C	5	V124	A	100	84	5E	12
V15	A	72	28	6E	14	V70	A	265	123	4B	5	V125	B	227	15	5D	10
V16	A	61	42	5D	14	V71	A	266	120	4C	5	V126	B	186	41	10C	10
V17	B	64	89	5C	14	V72	A	252	123	6C	5	V127	A	135	67	8D	12
V18	B	30	97	4B	13	V73	A	180	117	8D	6	Z1	B	121	21	2F	2
V19	B	31	99	4B	13	V74	A	248	103	7B	5	Z2	B	141	21	2E	2
V20	A	36	29	6E	13	V75	A	253	107	6C	5	Z3	B	172	72	1A	8
V21	A	33	10	2E	13	V76	B	271	121	4D	5	Z4	B	172	77	1D	8
V22	B	34	84	12B	14	V77	B	266	105	4D	5	Z5	B	128	116	1D	8
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V24	B	163	118	9D	8	V79	B	254	105	7D	5	Z7	B	128	126	1E	8
V25	B	158	85	6B	8	V80	B	249	105	7D	5	Z8	B	149	48	3B	9
V26	B	149	89	5B	8	V81	A	180	108	8D	6	Z9	B	208	133	1A	6
V27	B	158	74	7C	8	V82	B	130	79	4E	12	Z10	B	136	105	1F	8
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V32	B	175	117	4B	6	V87	B	210	47	6D	10	Z15	B	179	62	2D	3
V33	B	161	119	8D	8	V88	B	214	51	7D	10	Z16	B	179	101	5C	3
V34	A	189	81	11A	3	V89	B	203	34	8D	10	Z17	B	189	101	5B	3
V35	A	227	89	9D	3	V90	B	198	38	8C	10	Z18	B	220	62	8E	3
V36	B	249	88	3D	4	V91	A	243	48	2B	10	Z19	B	245	81	6B	3
V37	A	244	70	7A	3	V92	B	247	51	2B	10	Z20	B	250	62	12E	3
V38	B	180	78	4D	3	V93	A	271	51	2C	10	Z21	B	255	68	2B	4
V39	B	197	79	4E	3	V94	A	230	22	2D	10	Z22	B	260	68	5B	4
V40	A	251	92	3C	4	V95	A	228	8	3C	10	Z23	B	232	128	8B	5
V41	A	255	72	4B	4	V96	A	232	20	3D	10	Z24	B	243	118	8E	5

ROHDE	AEI	Datum	XY-Liste fuer	Sach-Nummer	Blatt
&		Date	XY-list for	Stock-Nr	Page
SCHWARZ			RF_SYNTHESIZER		
	02	17.02.95		1051.2307.01 XY	10+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
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Z26	B	184	62	2D	3	Z36	B	184	101	4B	3	Z46	B	91	85	1E	16
Z27	B	260	95	2E	5	Z37	B	215	62	5E	3	Z47	B	84	95	11A	14
Z28	B	255	95	2F	5	Z38	B	91	105	3C	13	Z48	B	39	39	11D	14
Z29	B	258	128	2B	5	Z39	B	91	100	3C	13	Z49	B	91	34	5F	14
Z30	B	248	128	5B	5	Z40	B	34	21	6D	13	Z50	B	91	29	5F	14
Z31	B	189	62	2E	3	Z41	B	50	96	2A	14	Z51	B	91	39	5F	14
Z32	B	194	62	2E	3	Z42	B	91	80	2D	15	Z52	B	91	44	4F	14
Z33	B	199	62	2E	3	Z43	B	91	50	2D	15						
Z34	B	204	62	2F	3	Z44	B	91	55	2D	15						

ROHDE & SCHWARZ	AEI	Datum Date	XY-Liste fuer XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		02 17.02.95	RF_SYNTHESIZER	1051.2307.01 XY	11-



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D14	B	27	25			X2	B	48	40								
D36	B	34	11			X3	B	3	9								

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	B	48	13			C27	B	40	19			R10	B	42	63		
C9	B	5	59			C38	B	40	2			R11	B	9	16		
C10	B	4	70			D1	B	45	8			R16	B	30	59		
C15	B	42	67			D26	B	17	62			R20	B	48	27		
C16	B	45	70			D27	B	39	62			R21	B	48	30		
C23	B	11	19			L9	B	8	10			R28	B	2	50		
C24	B	5	56			R1	B	3	63			R29	B	2	48		
C25	B	42	60			R2	B	43	5								
C26	B	48	37			R9	B	3	56								

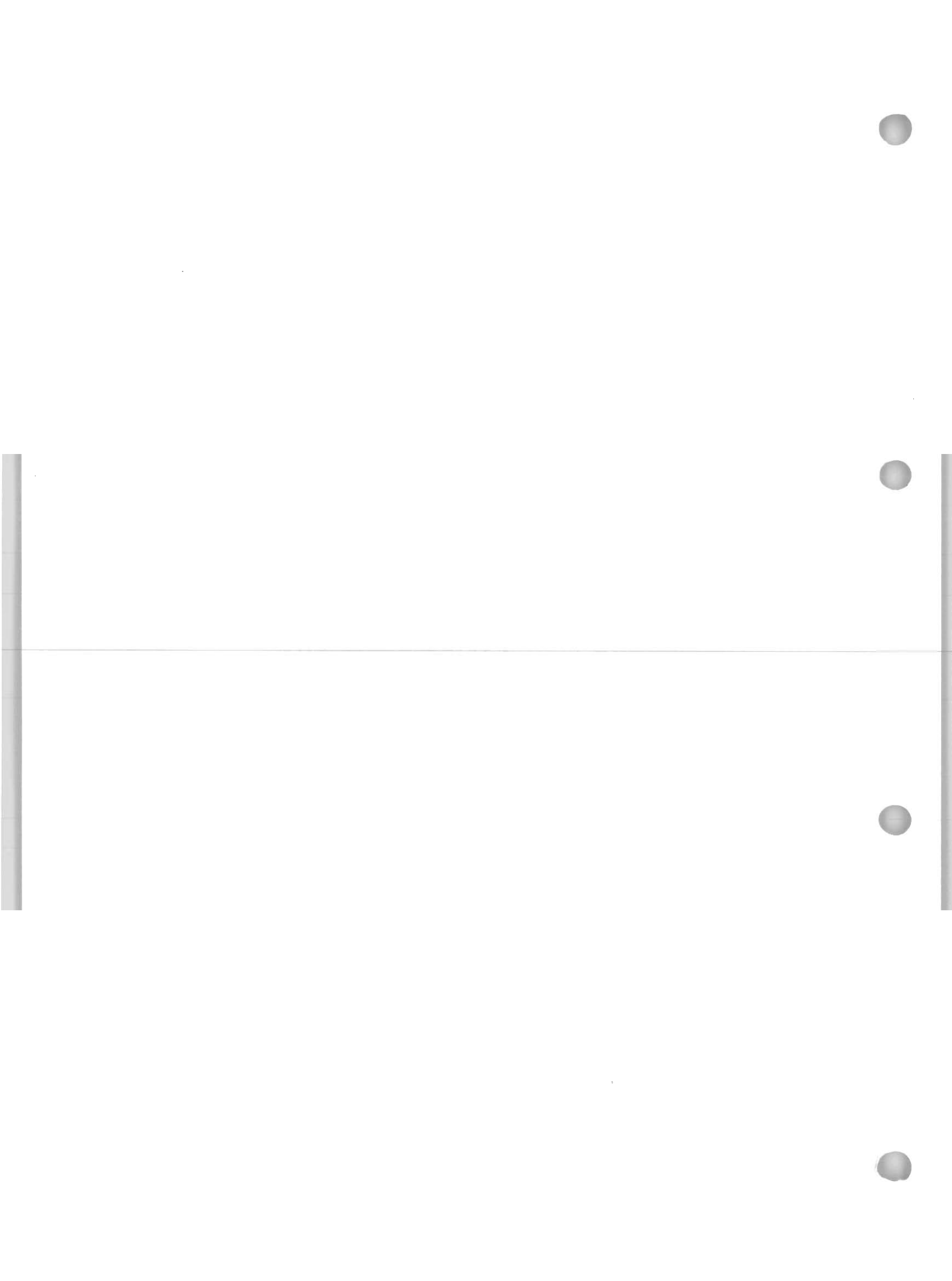
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&		Date	XY-list for	Stock-Nr	Page
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	- 0 2 -	25.01.95		1051.2907.01 XY	1-





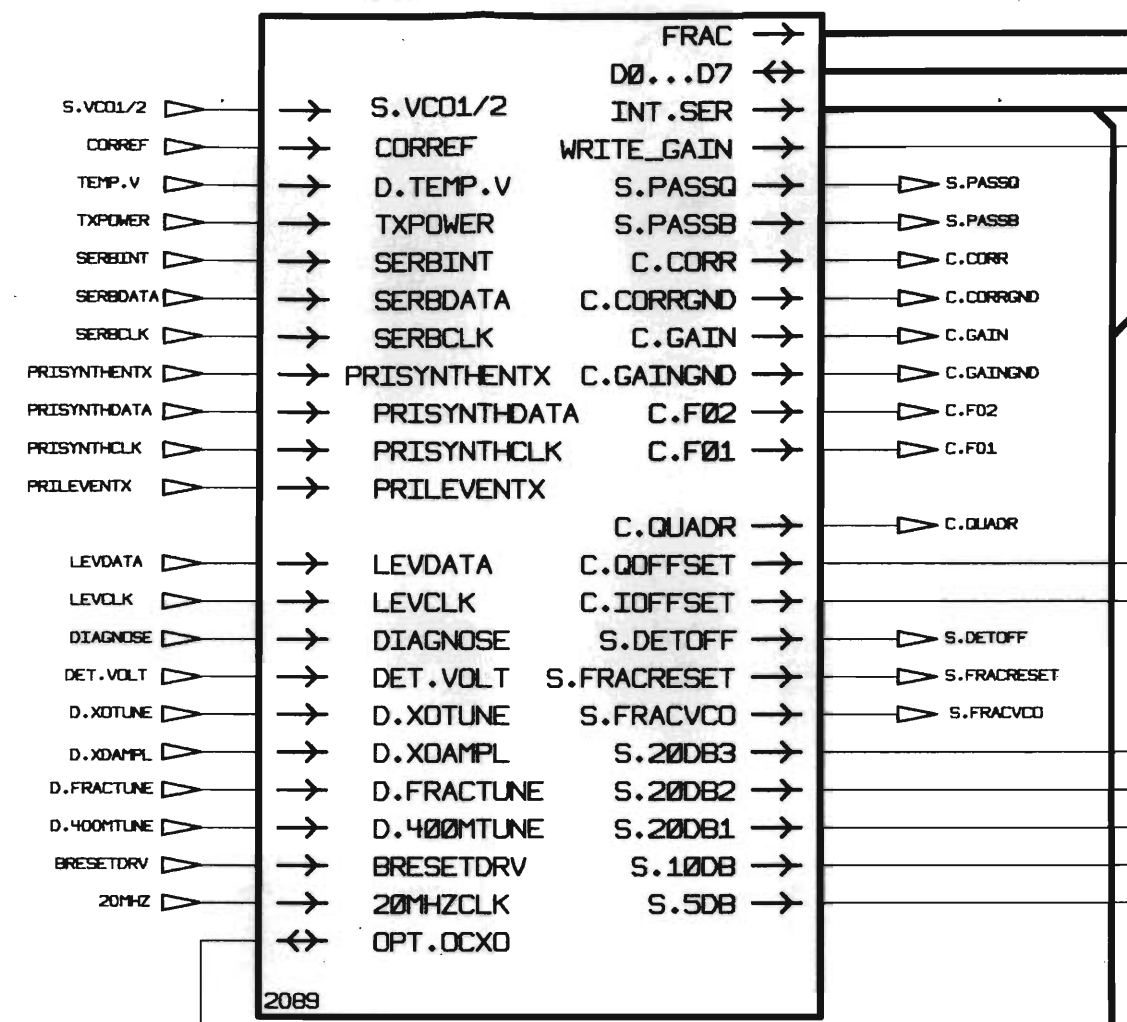
ROHDE & SCHWARZ

Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants

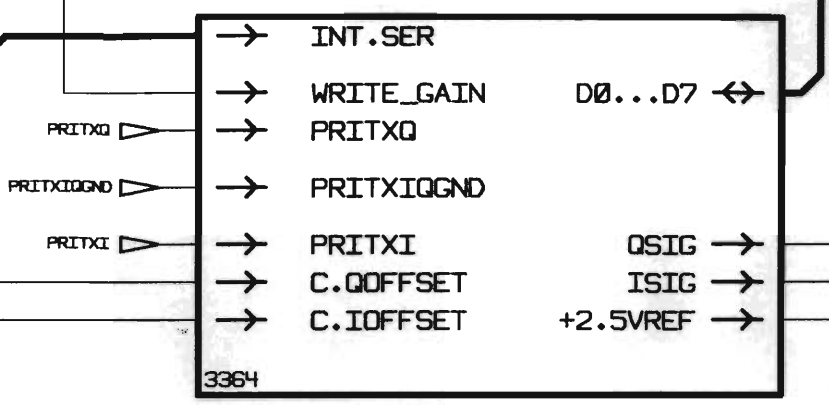


FLIER DIESE UNTERLAGE ERHALTEN WIR UNS ALLE RECHTE VOR

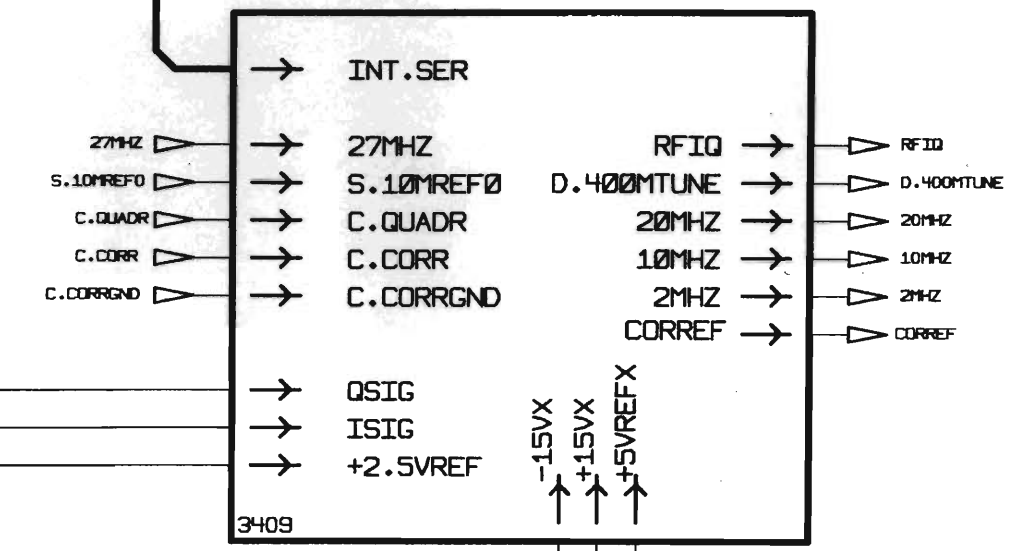
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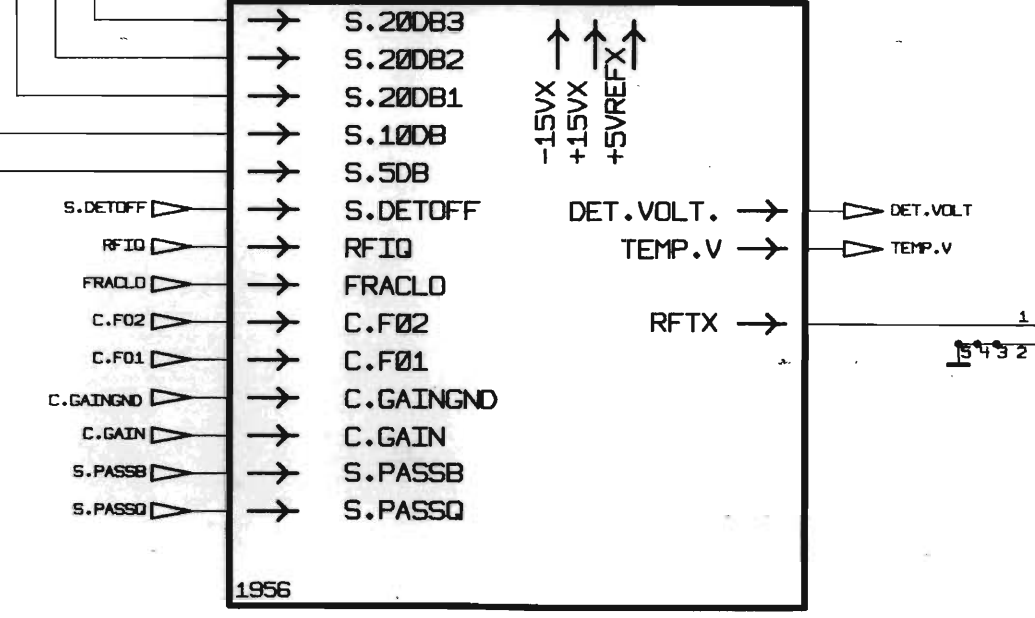
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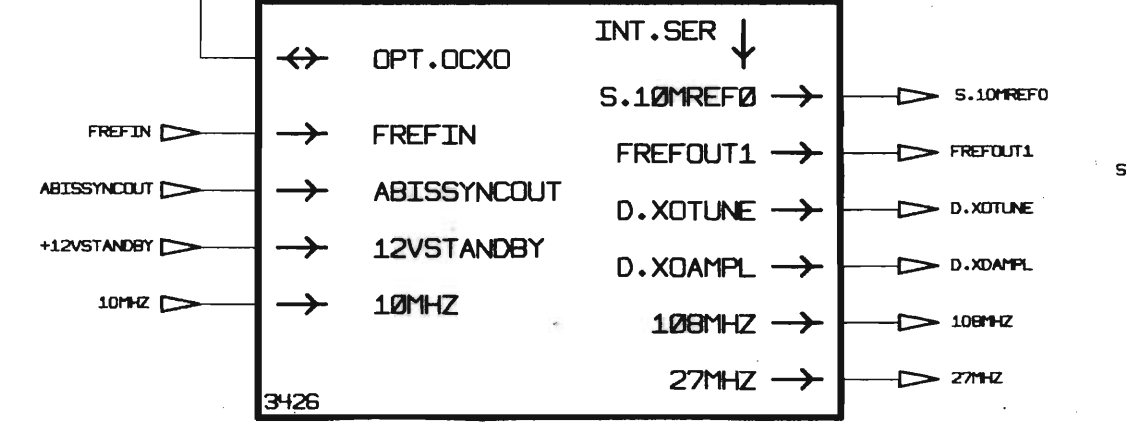
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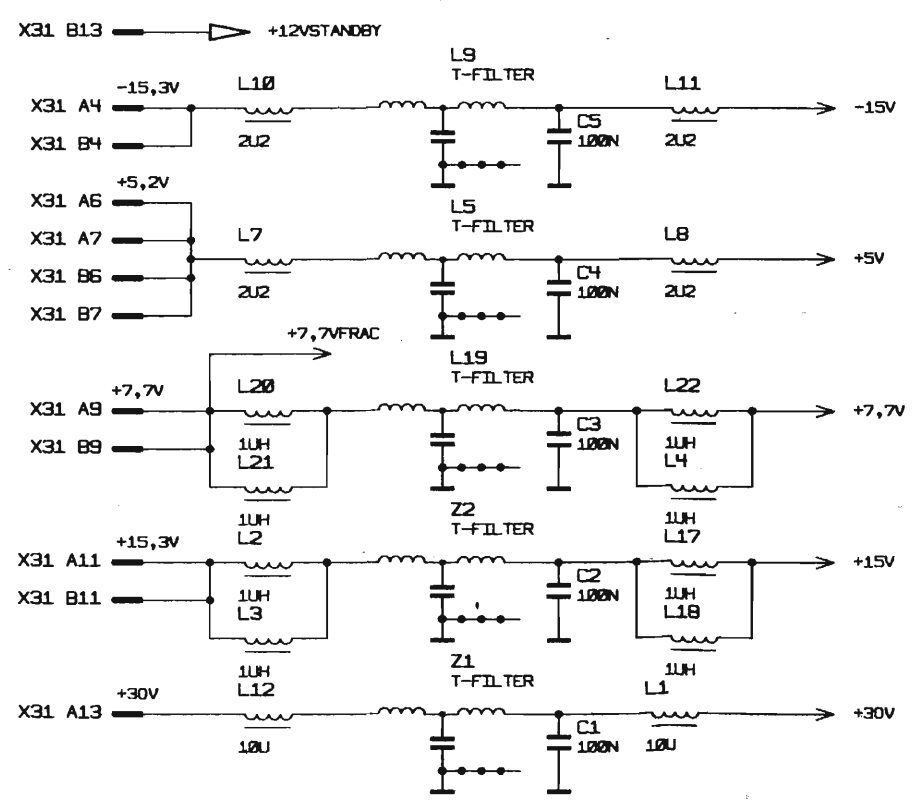
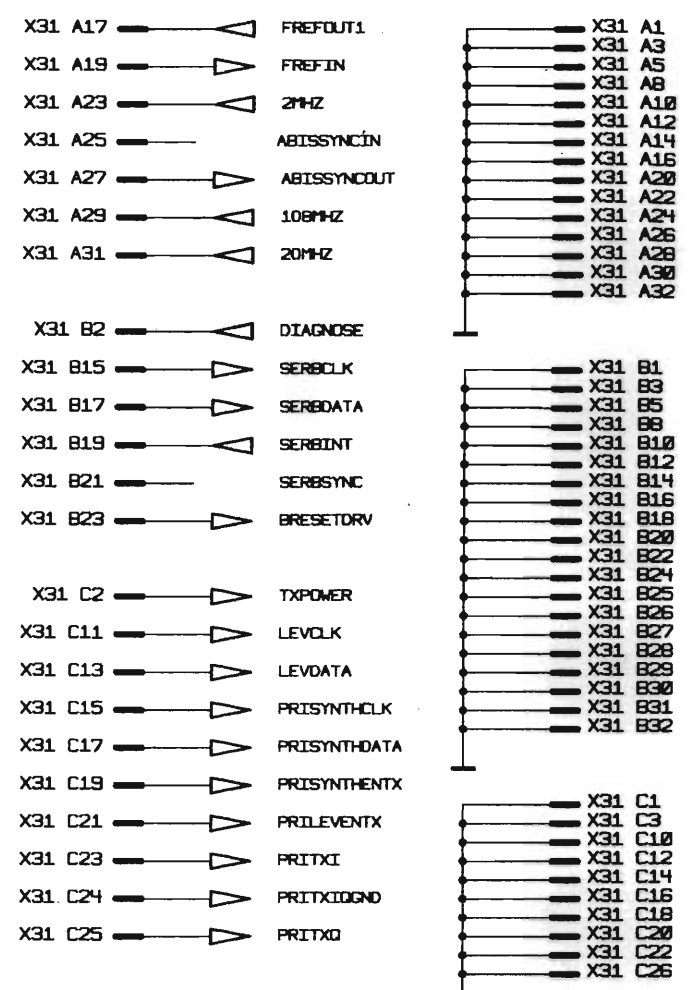
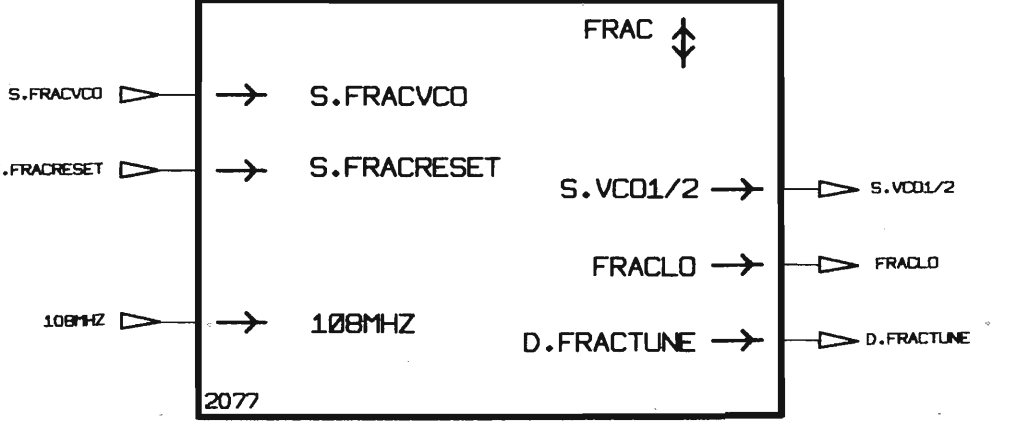
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referenz

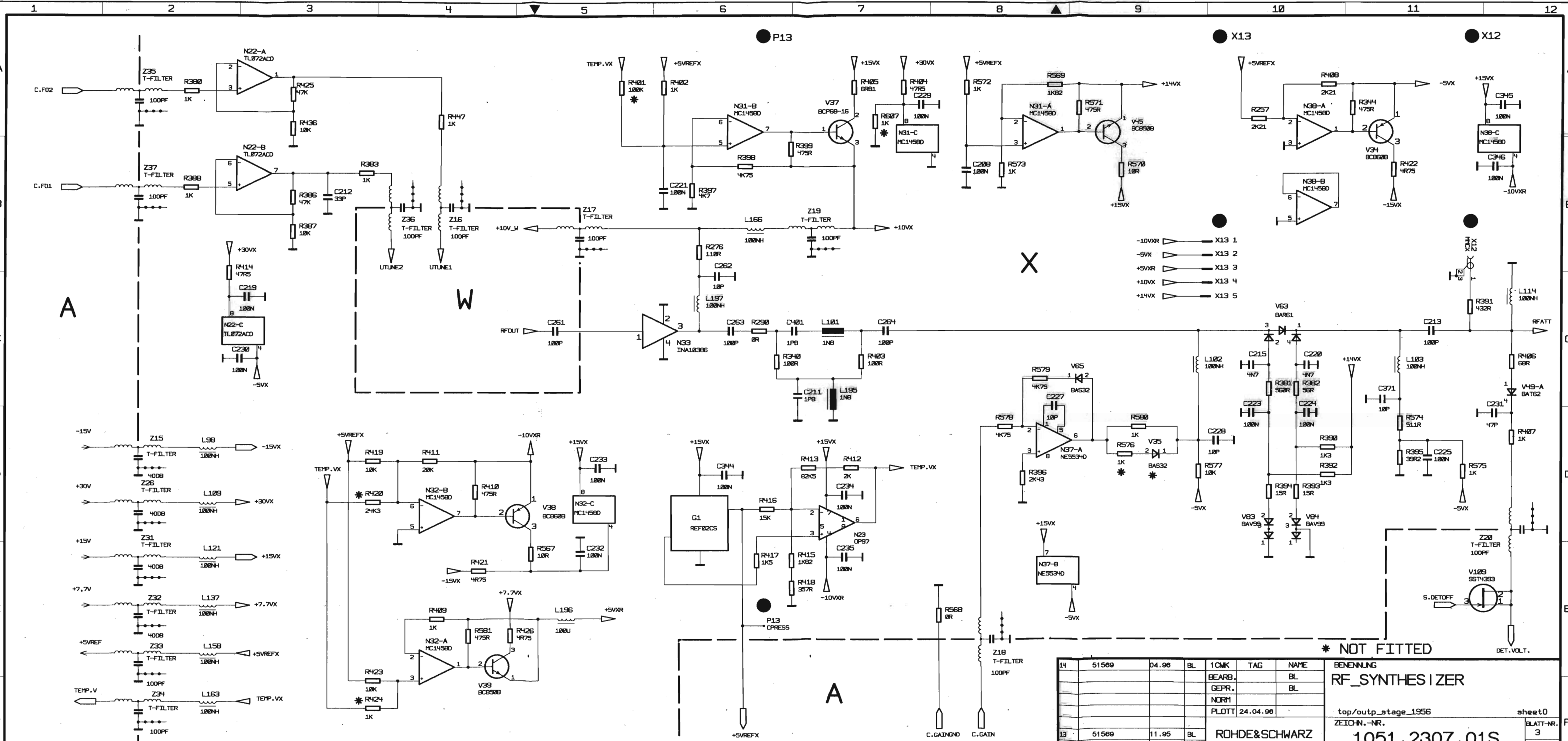


fracsyn



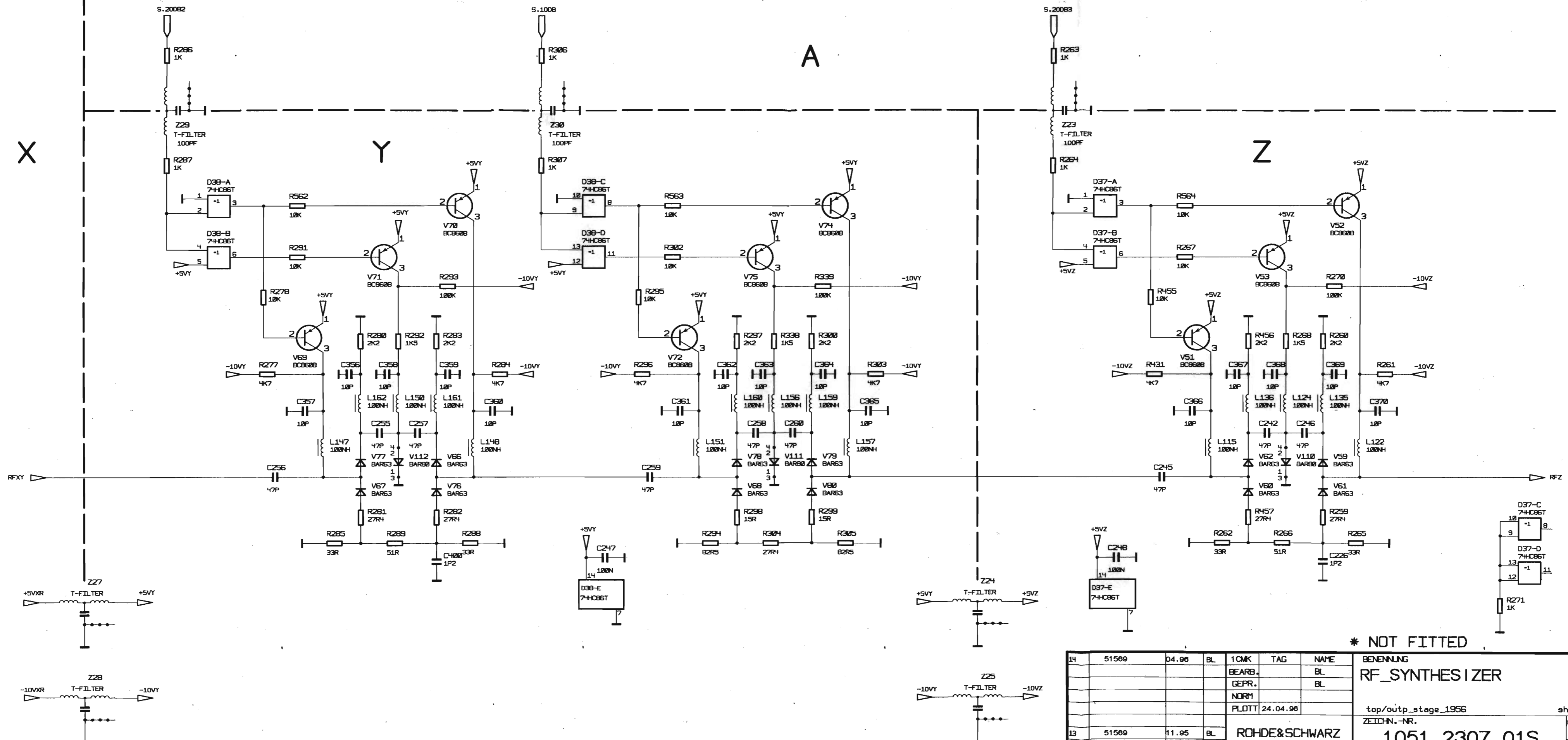
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				GEPR.		BL	
				NORM			
				PLOTT	24.04.90		
13	51509	11.95	BL	ROHDE&SCHWARZ			top
				AENDERUNGS-MITTEILUNG			ZEICHN.-NR.
				ZU GERAET CMD			1051.2307.01S
				REG.I.V. 1050.9008			sheet1
				ERSTE Z. 1050.9008			BLATT-NR. 2
							v.16 BL.

FLIER DIESE UNTERLAGE ERHALTEN WIR UNS ALLE RECHTE VOR



14	51509	04.90	BL	1CMK	TAG	NAME	BENENNUNG	top/outp_stage_1956	sheet0
				BEARB.		BL	RF_SYNTHESIZER		
				GEPR.		BL			
				NORM					
				PLOTT	24.04.90				
13	51509	11.95	BL	ROHDE&SCHWARZ			ZEICHN.-NR.		BLATT-NR.
ÄND. IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD		1051.2307.01S		3
							REG.-I.V. 1050.9008		v. 16 BL.
							ERSTE Z. 1050.9008		

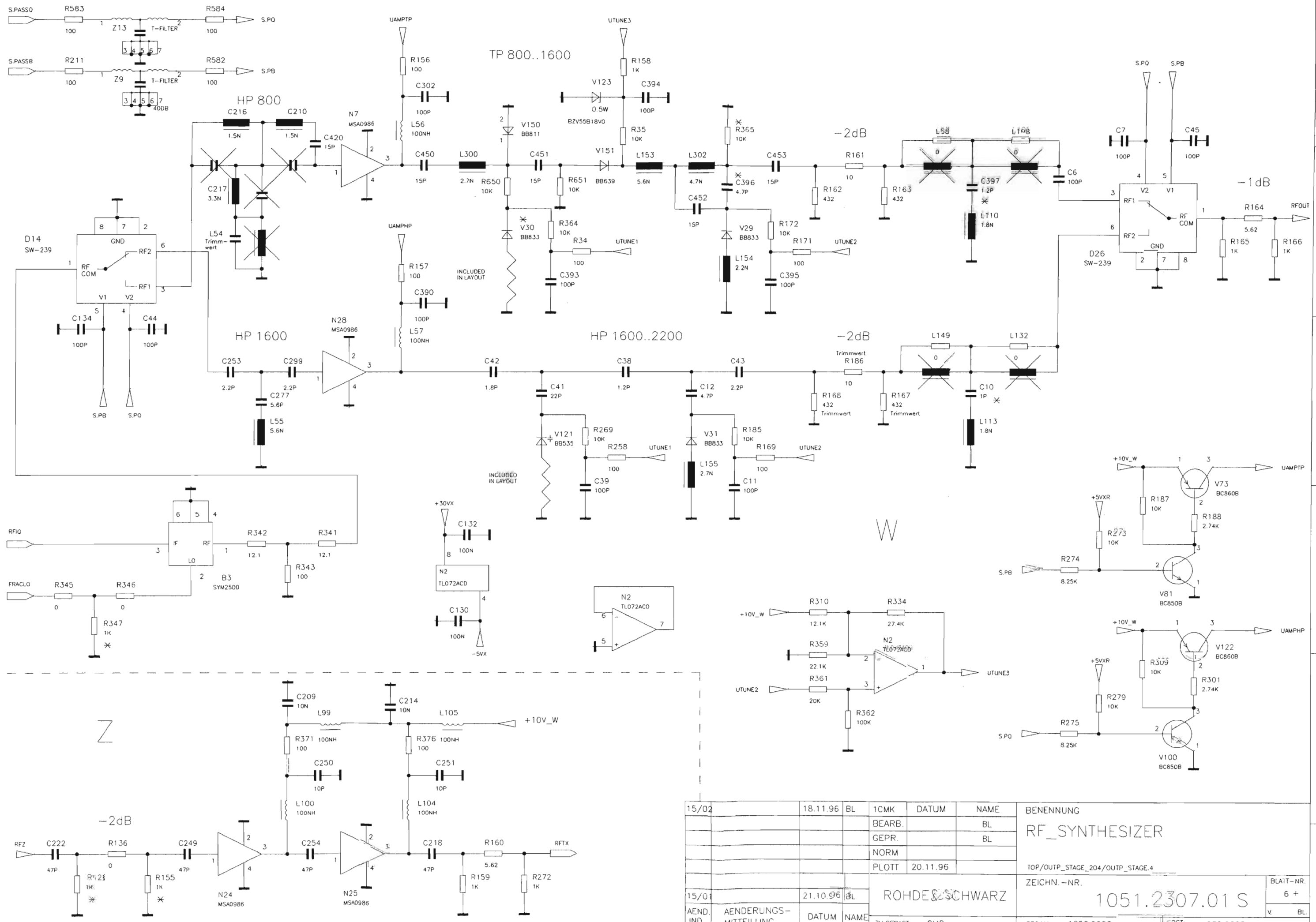
FLIER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

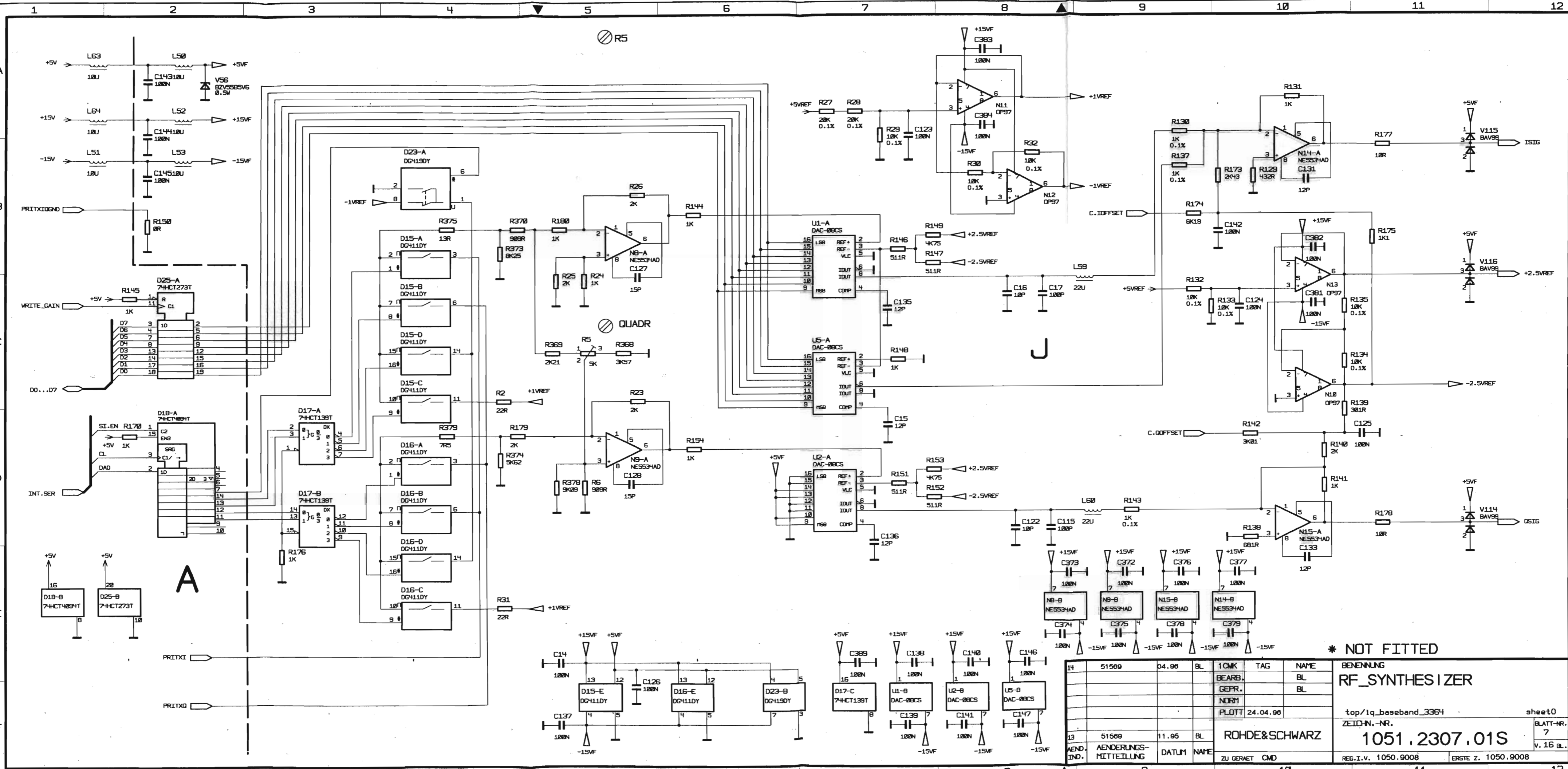
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				GEPR.		BL	
				NORM			
				PLOTT	24.04.96		
13	51569	11.95	BL	ROHDE&SCHWARZ		top/outp_stage_1956	
ÄND. IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT CMD		ZEICHN.-NR. 1051.2307.01S	
						sheet2	
						BLATT-NR. 5	
						V. 16 BL.	
				REG.I.V. 1050.9008		ERSTE Z. 1050.9008	

BEHALTEN WIR UNS ALLE RECHTE VOR

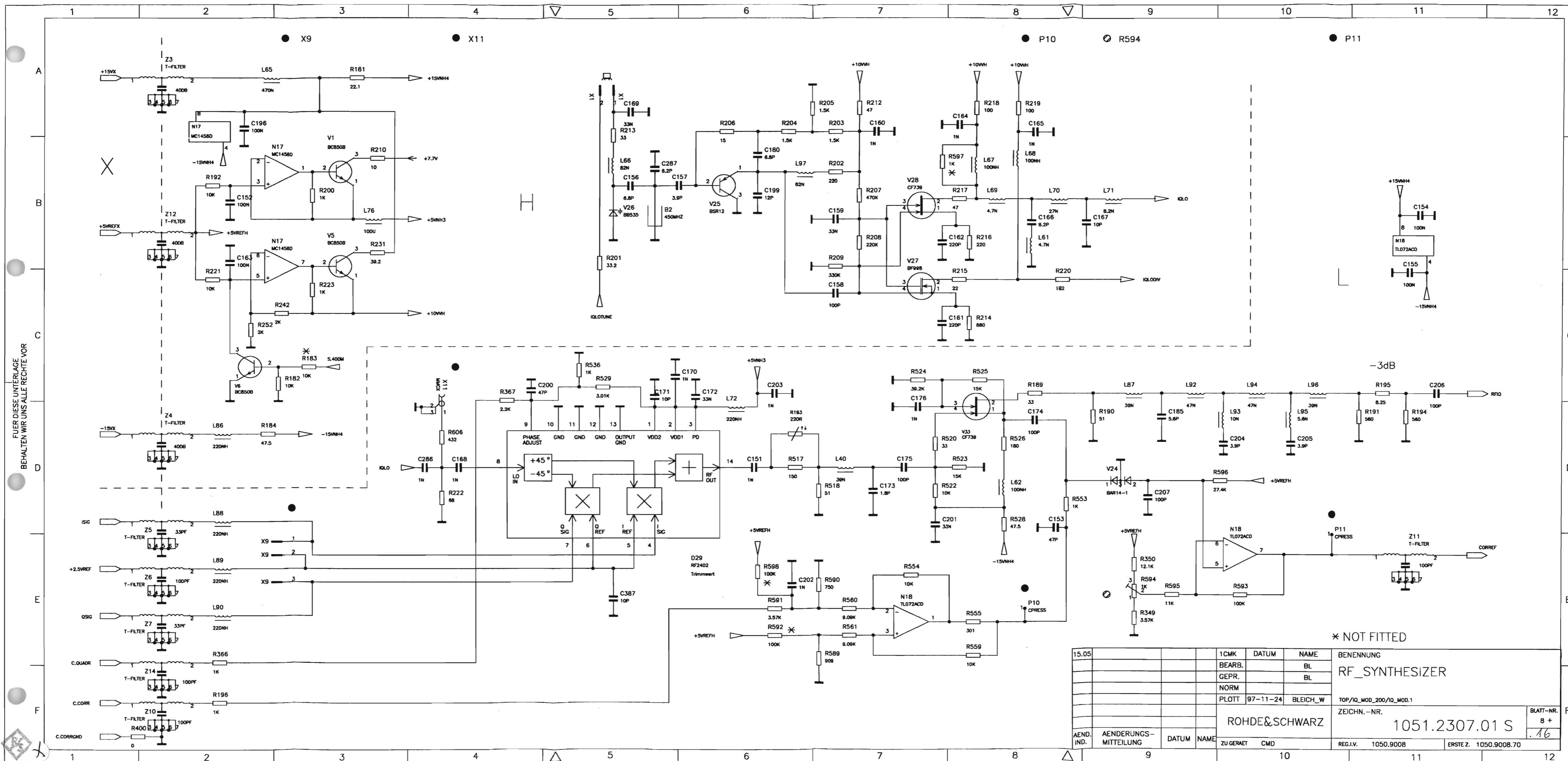


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			GEPR.		BL	
			NORM			
			PLOTT	20.11.96		TOP/OUTP_STAGE_204/OUTP_STAGE_4
15/01	21.10.96	BL	ROHDE & SCHWARZ			ZEICHN.-NR.
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAEET	CMD	REG.I.V. 1050.9008
						1050.9008
						BLAIT-NR. 6 +
						1051.2307.01 S

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



				* NOT FITTED						
NO.	51569	04.98	BL	1CMK	TAG	NAME	BENENNUNG			
14				BEARB.		BL	RF_SYNTHESIZER			
				GEPR.		BL				
				NORM						
				PLOTT	24.04.98					
							top/lq_baseband_3364	sheet 0		
13	51569	11.95	BL	ROHDE&SCHWARZ		ZEICHN.-NR.		7		
							1051.2307.01S		v. 16 Bl.	
AEND.	AENDERUNGS-	DATUM	NAME	ZU GERÄT		CMD	REG.I.V.	1050.9008	ERSTE Z.	1050.9008
IND.	MITTEILUNG									

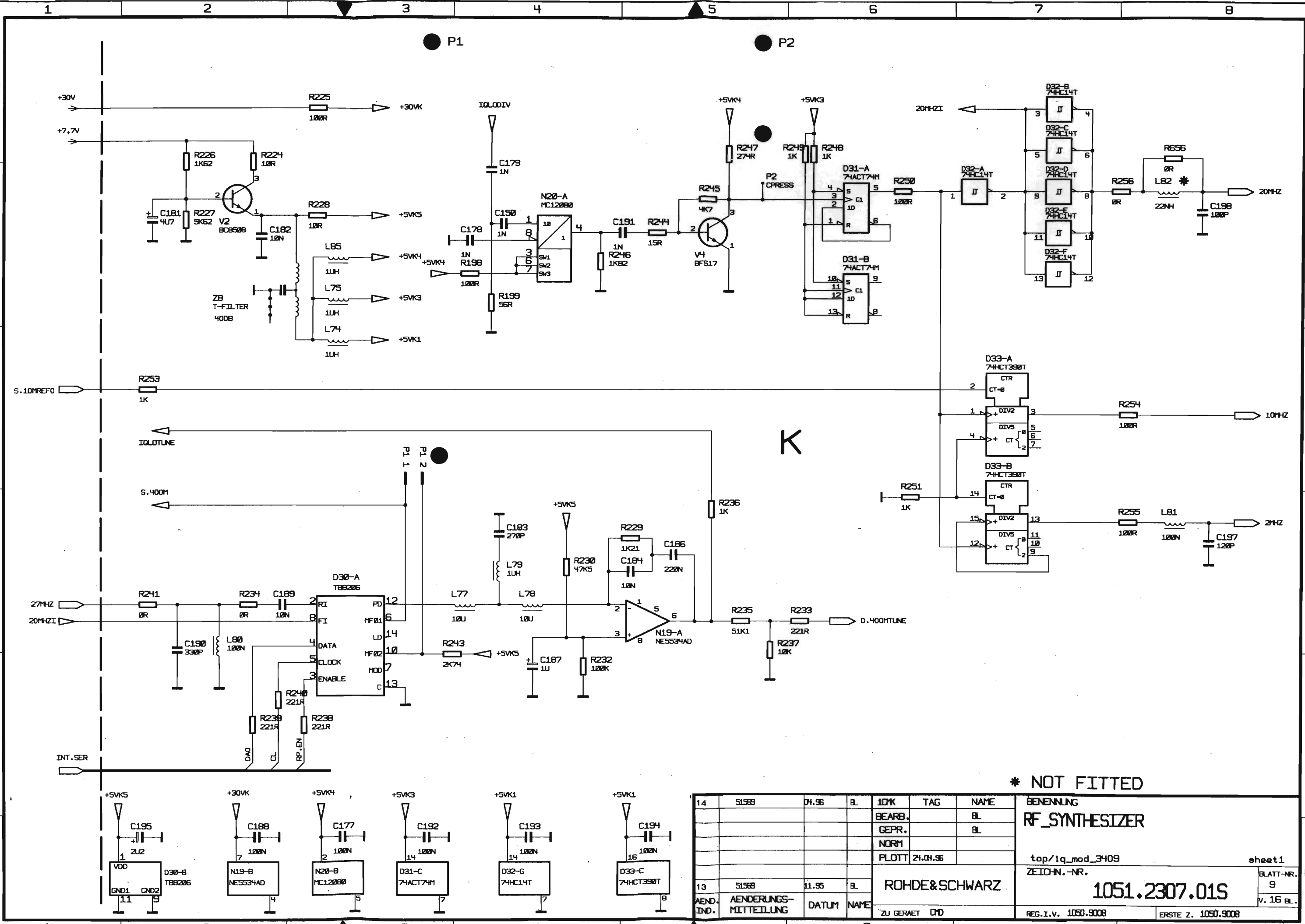


FUER DIESE UNTERLAGE
 BEHALTEN WIR UNS ALLE RECHTE VOR

15.05		1CMK	DATUM	NAME	BENENNUNG
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		GEPR.		BL	
		NORM			
		PLOTT	97-11-24	BLEICH_W	TOP/IQ_MOD_200/IQ_MOD.1
					ZEICHN.-NR.
					1051.2307.01 S
					BLATT-NR.
					8 +
					16
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD
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				ERSTE Z.	1050.9008.70

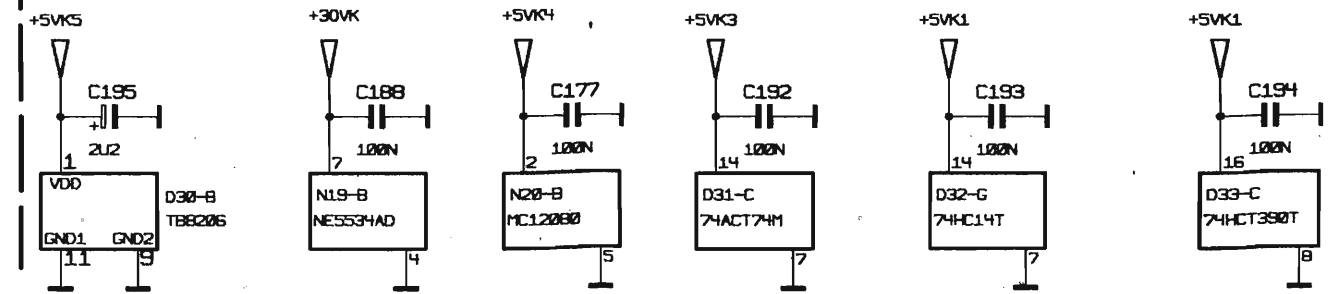
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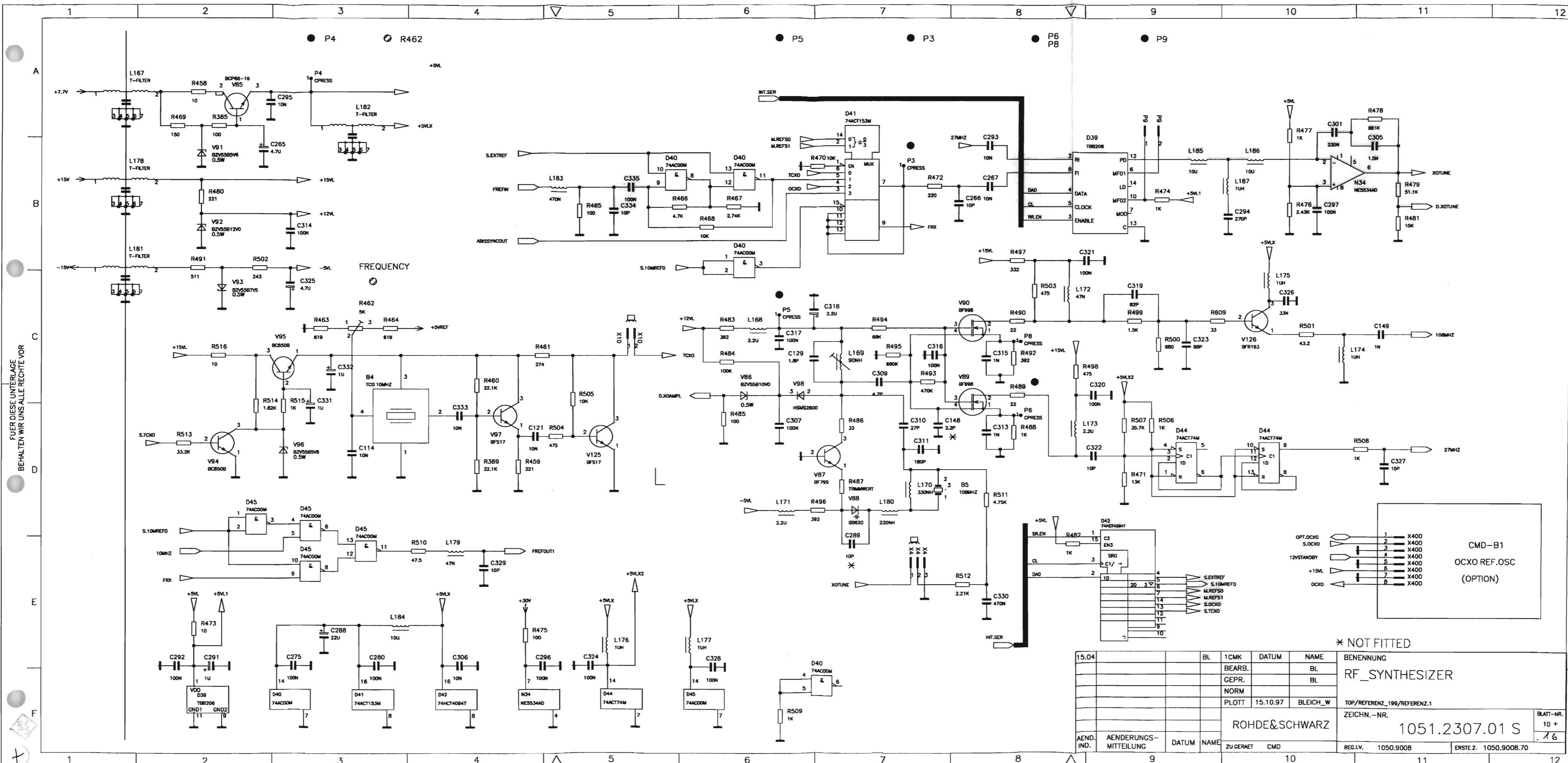
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



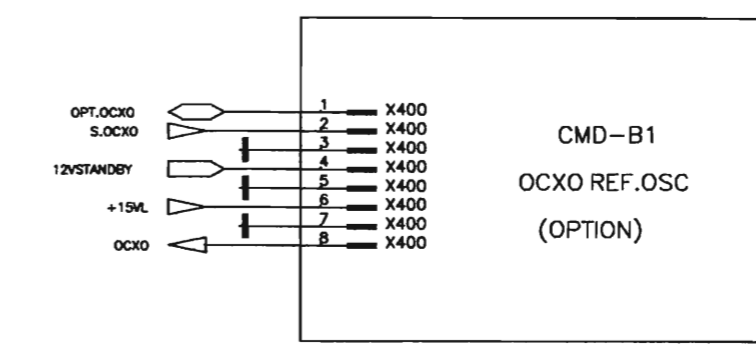
* NOT FITTED

14	51588	04.96	BL	10K	TAG	NAME	BENENNUNG	top/lq_mod_3409	sheet1
				BEARB.		BL	RF_SYNTHESIZER		BLATT-NR.
				GEPR.		BL			9
				NORM					v. 16 Bl.
				PLOTT	24.04.96				
13	51588	11.95	BL	ROHDE & SCHWARZ			1051.2307.01S		
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT CMD			REG. I.V. 1050.9008	ERSTE Z. 1050.9008	



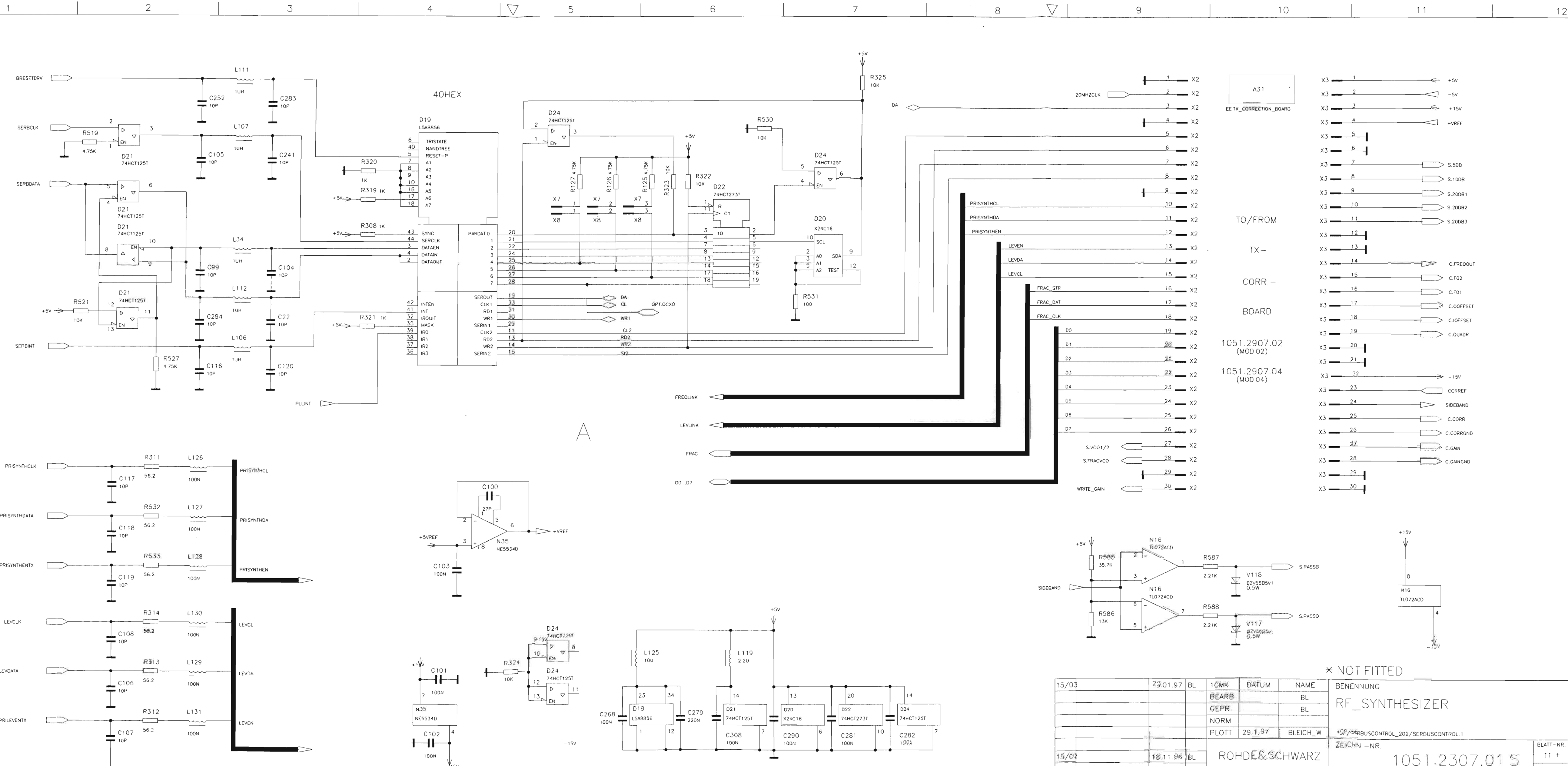


FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



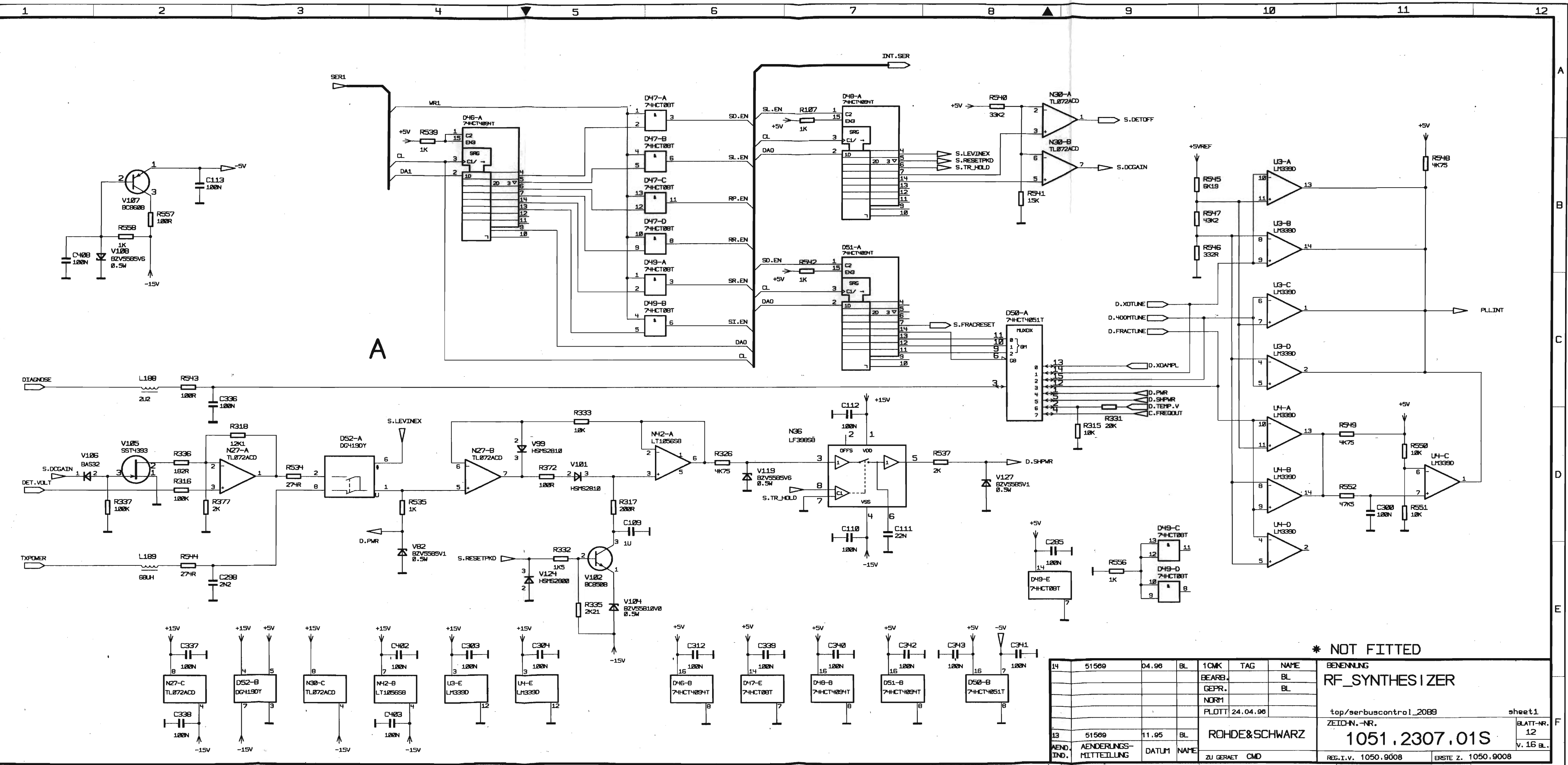
15.04		BL	1CMK	DATUM	NAME	BENENNUNG
		BEARB.			BL	RF_SYNTHESIZER
		GEPR.			BL	
		NORM				
		PLOTT	15.10.97	BLEICH_W		TOP/REFERENZ_199/REFERENZ_1
		ROHDE&SCHWARZ		ZEICHN.-NR.		1051.2307.01 S
		AENDERUNGS-MITTEILUNG		DATUM		BLATT-NR.
		ZU GERAET		NAME		10 +
		1050.9008		1050.9008.70		16

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



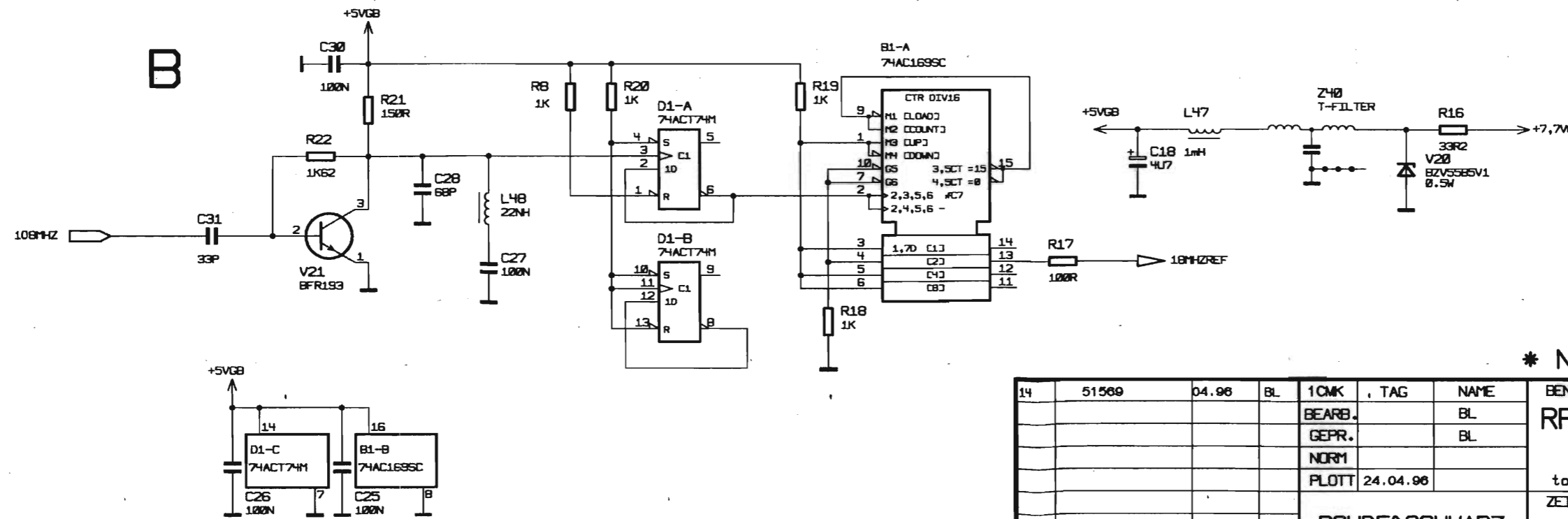
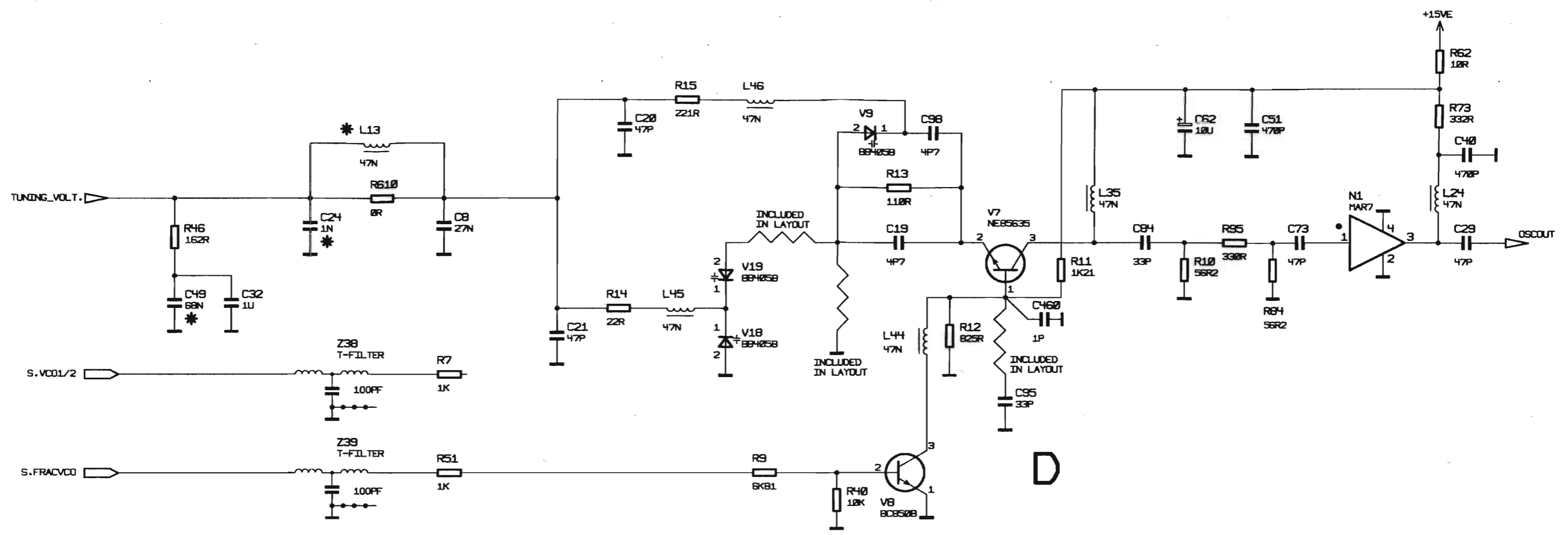
15/03		23.01.97		BL	1CMK	DATUM	NAME	BENENNUNG	
					BEARB.		BL	RF_SYNTHESIZER	
					GEPR.		BL		
					NORM				
					PLOTT	29.1.97	BLEICH_W	40P/SERBUSCONTROL_202/SERBUSCONTROL.1	
								ZEICHN.-NR.	
								1051.2307.01 S	
15/03		18.11.96	BL		ROHDE & SCHWARZ			BLATT-NR.	
					ZU GERÄT	CMD		11 +	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME		REC.I.V.	1050.9005	ERSTE Z.	1050.9008.76	

FÜR DIESE UNTERLAGE
HALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

14	51569	04.96	BL	1CMK	TAG	NAME	BENENNUNG	top/serbuscontrol_2089	sheet1
				BEARB.		BL	RF_SYNTHESIZER	ZEICHN.-NR.	BLATT-NR.
				GEPR.		BL			12
				NORM					v. 16 BL.
				FLOTT	24.04.96				
13	51569	11.95	BL	ROHDE&SCHWARZ					
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT CMD				1051.2307.01S	
								REG.I.V. 1050.9008	ERSTE Z. 1050.9008

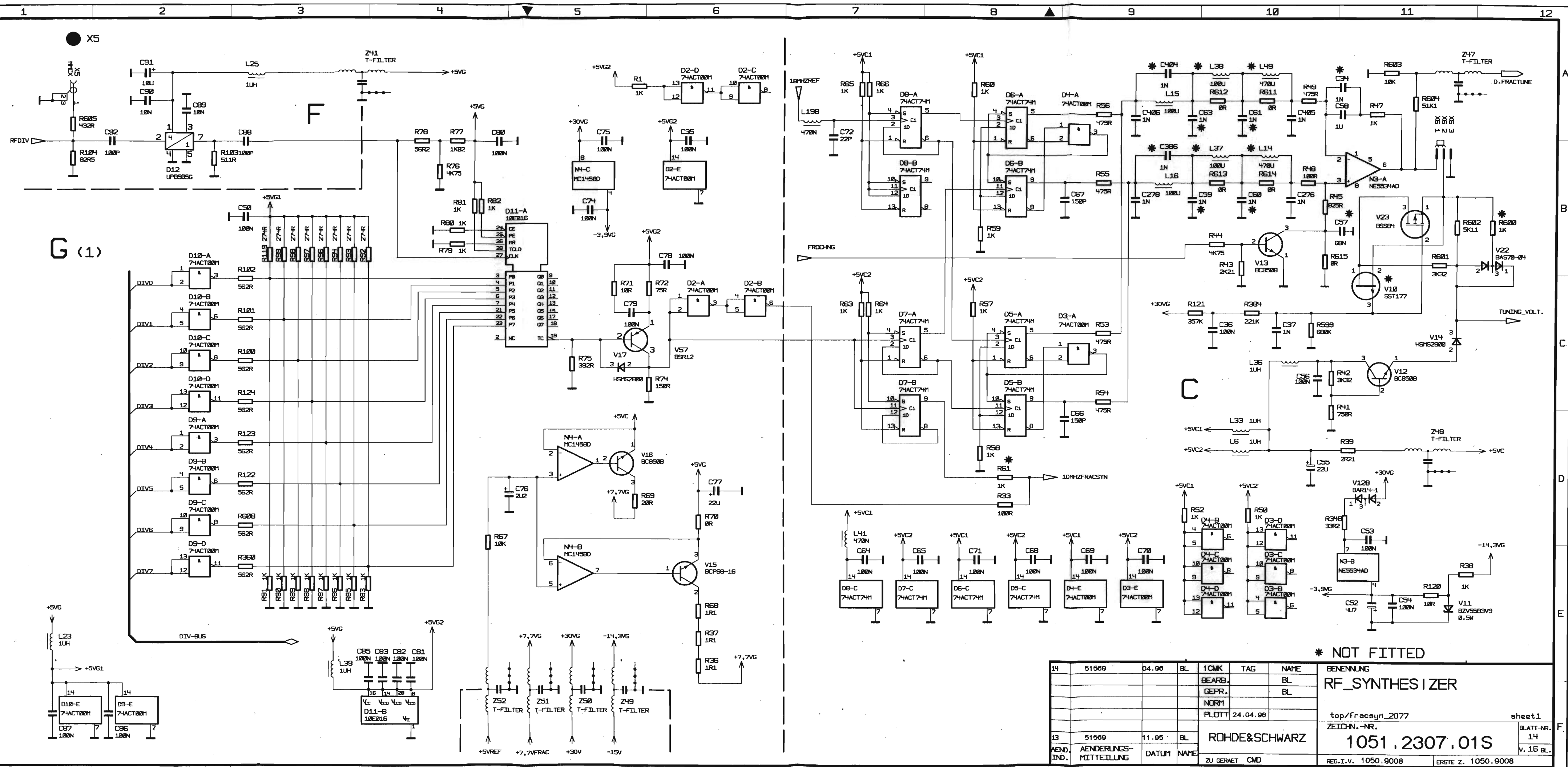


* NOT FITTED

14	51569	04.98	BL	10MK	TAG	NAME	BENENNUNG	top/fracsyn_2077	sheet0
				BEARB.		BL	RF_SYNTHESIZER		
				GEPR.		BL			
				NORM					
				PLOTT	24.04.98				
13	51569	11.95	BL	ROHDE&SCHWARZ			ZEICHN.-NR.		BLATT-NR.
AEND.	AENDERUNGS-	DATUM	NAME				1051.2307.01S		13
IND.	MITTEILUNG			ZU GERAET CMD			REG.I.V. 1050.9008		v. 16 BL.
							ERSTE Z. 1050.9008		

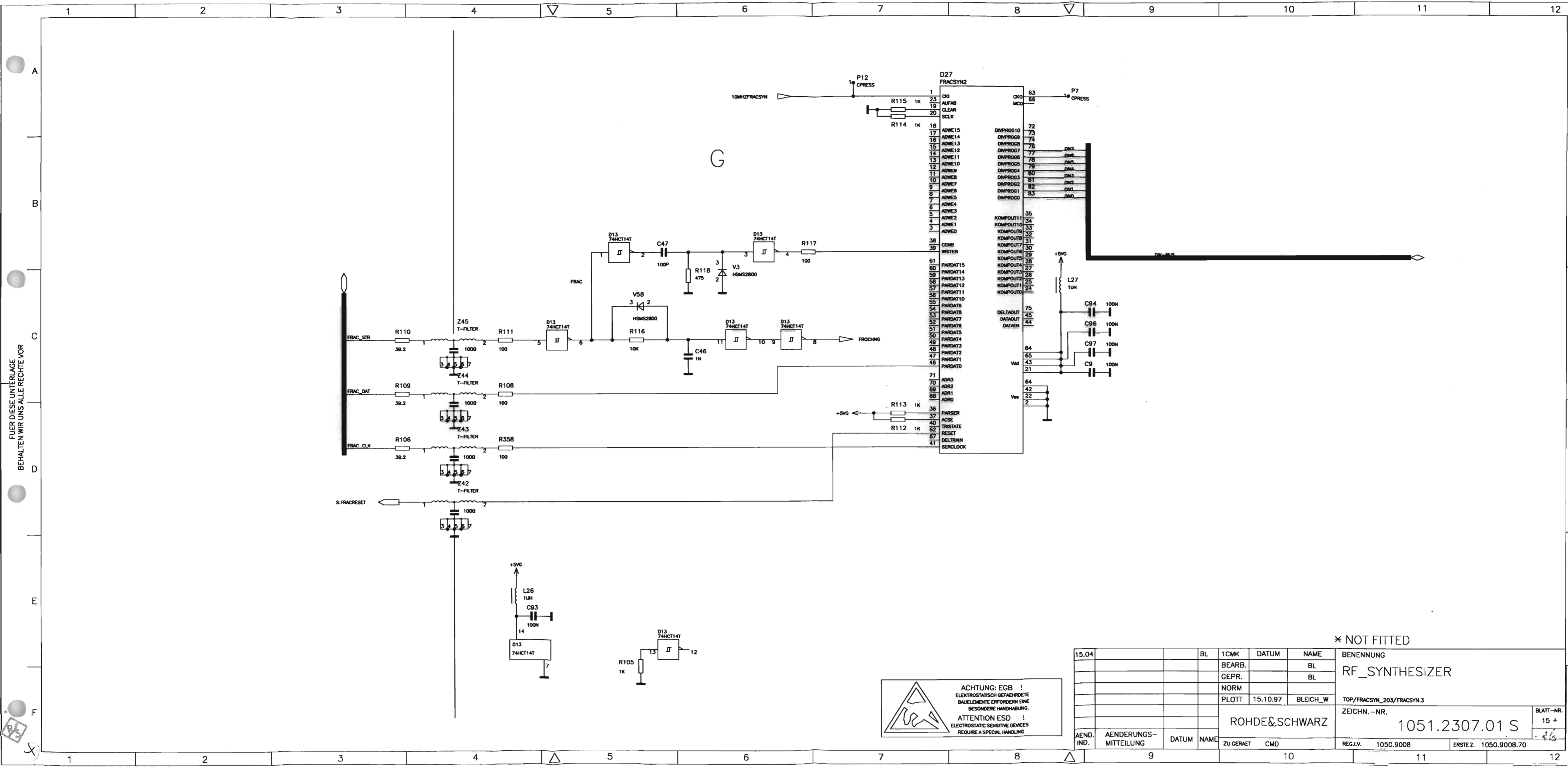
FÜR DIESE UNTERLAGE
 BEHALTEN WIR UNS ALLE RECHTE VOR

BEHALTEN WIR UNS ALLE RECHTE VOR
FUER DIESE UNTERLAGE




14		51569		04.96		BL		1CMK		TAG		NAME		BENENNUNG	
														RF_SYNTHESIZER	
														top/fracsyn_2077	
														sheet1	
														BLATT-NR.	
														14	
														v. 16 BL.	
13		51569		11.95		BL		ROHDE&SCHWARZ		DATE		NAME		REG.I.V. 1050.9008	
AEND. IND.		AENDERUNGS-MITTEILUNG		DATUM		NAME		ZU GERÄT CMD						ERSTE Z. 1050.9008	

* NOT FITTED



FUER DIESE UNTERLAGE
 BEHALTEN WIR UNS ALLE RECHTE VOR

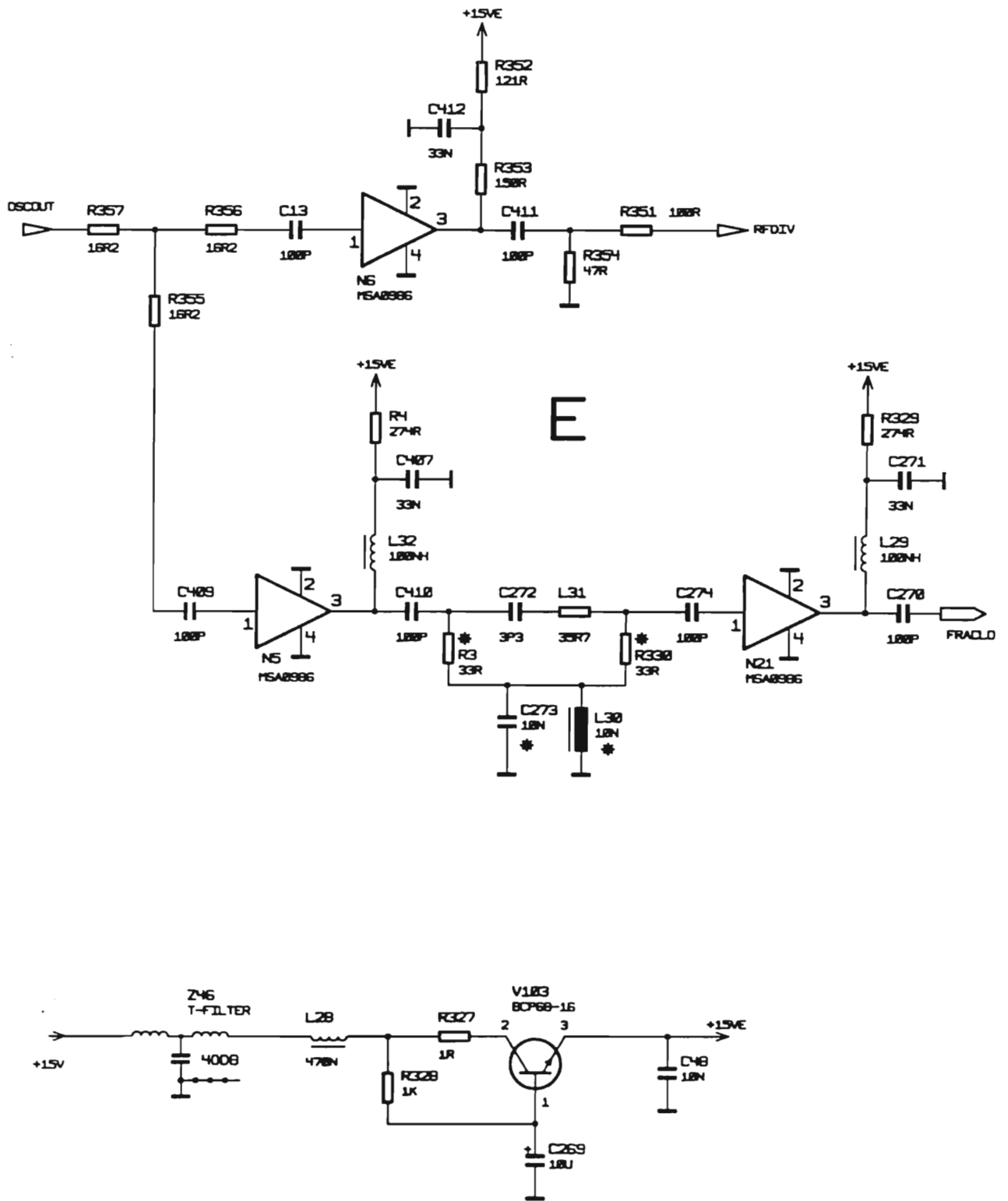


ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

* NOT FITTED

15.04		BL	1CMK	DATUM	NAME	BENENNUNG	
			BEARB.		BL	RF_SYNTHESIZER	
			GEPR.		BL		
			NORM				
			PLOTT	15.10.97	BLEICH_W	TOP/FRACSYN_203/FRACSYN.3	
						ZEICHN.-NR.	
						1051.2307.01 S	
						BLATT-NR.	
						15 +	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD	REG.IV.	1050.9008
						ERSTE Z.	1050.9008.70

FUER DIESE UNTERLAGE
BEHALTEN VIR UNS ALLE RECHTE VOR



14	51509	04.06	BL	1CMK	TAG	NAME	BENENNUNG
				BEARB.		BL	RF_SYNTHESIZER
				GEPR.		BL	
				NORM			
				PLOTT	24.04.06		
				ROHDE&SCHWARZ			top/fracsyn_2077
							sheet3
							ZEICHN.-NR.
							1051.2307.01S
							BLATT-NR.
							16
							v. 16 BL.
13	51509	11.05	BL				
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD		REG.I.V. 1050.9008	ERSTE Z. 1050.9008

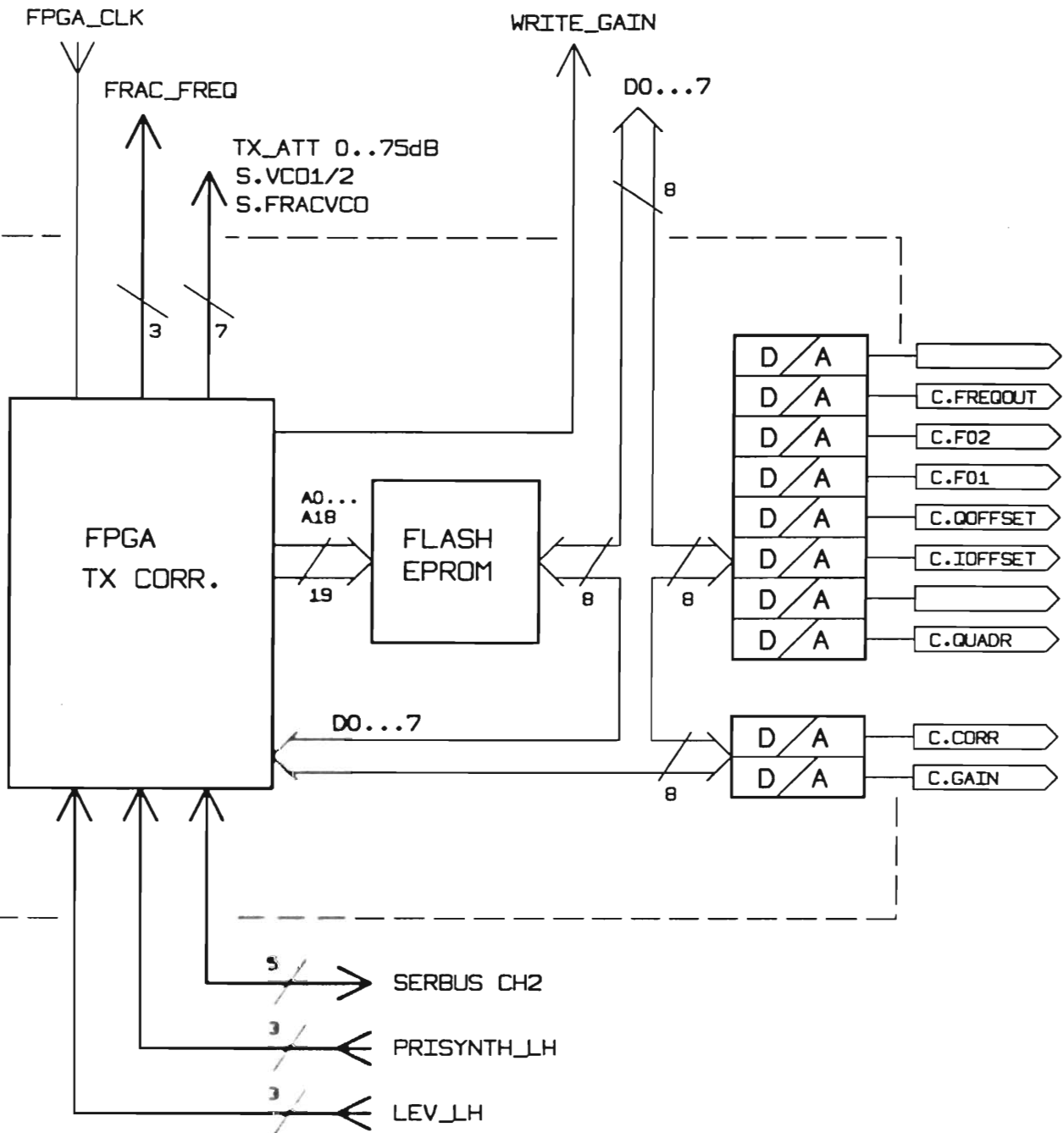
1

2

3

4

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



ACHTUNG: ESD!
ELECTROSTATIC SENSITIVE
EQUIPMENT. OBSERVE THE
RECOMMENDED HANDLING.
ATTENTION: ESD!
ELECTRONIC DEVICES/DEVICE
REQUIRE A SPECIAL HANDLING

BEZÜGGELE ANGABEN LIEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.

FOR BEZUGGE INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

04/01		01.97	BL	10MK	TAG	NAME	BENENNUNG	
				BEARB.		GL	TX_CORRECT ON_BOARD	
				GEPR.		GL		
				NORM				
				PLOTT	24.01.97			
01	50681	01.95	GL	ROHDE&SCHWARZ			top	s01
AEND. IND.	AENDERUNGS- MITTEILUNG	DATUM	NAME	ZU GERÄT CMD			ZEICHN.-NR. 1051.2907.01S	BLATT-NR. 1
				REG.I.V. 1050.9008			ERSTE Z. 1051.2307	V.2 BL.

1

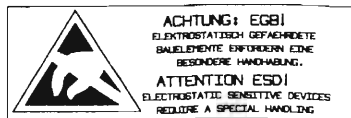
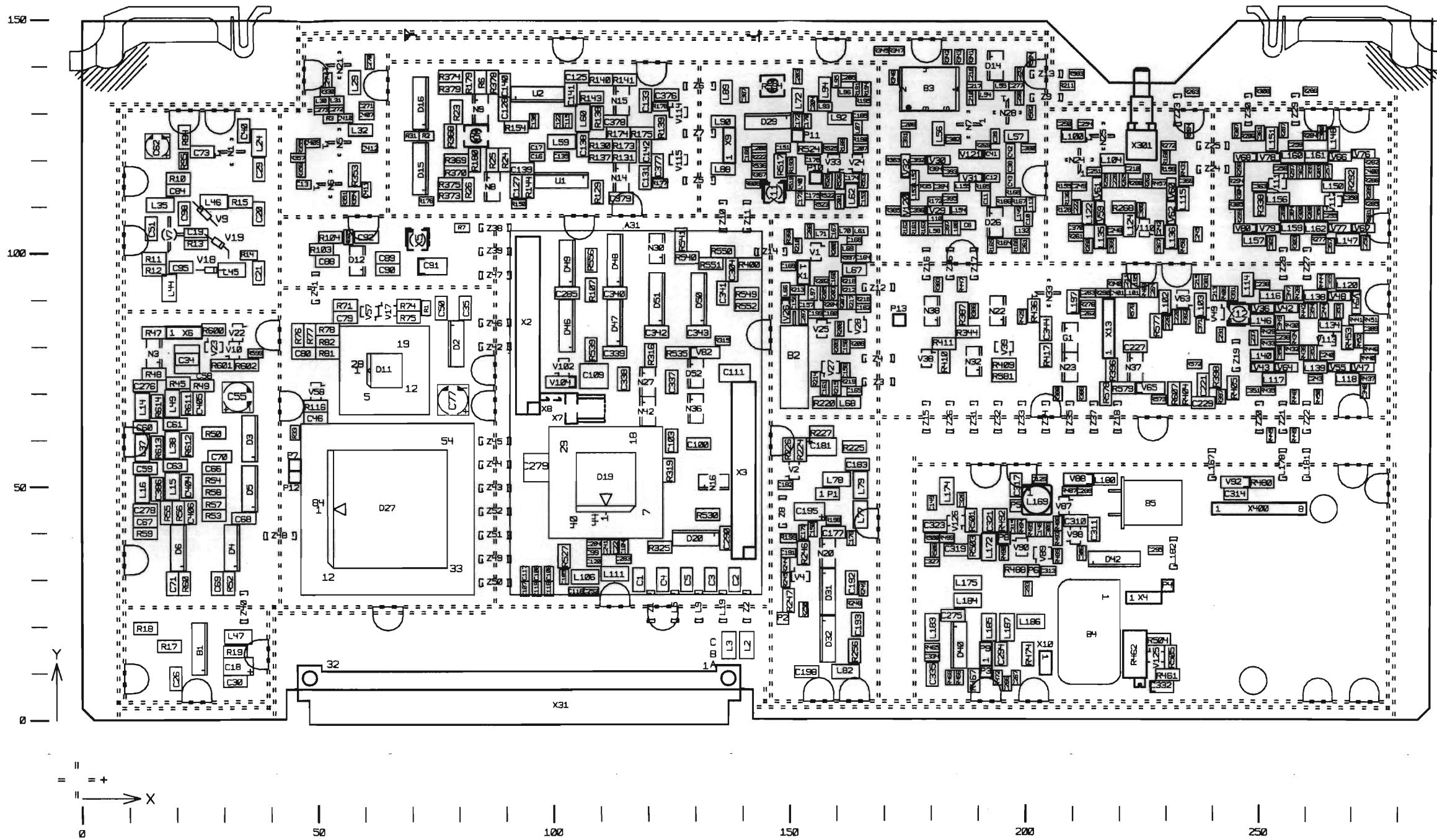
2

3

4

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

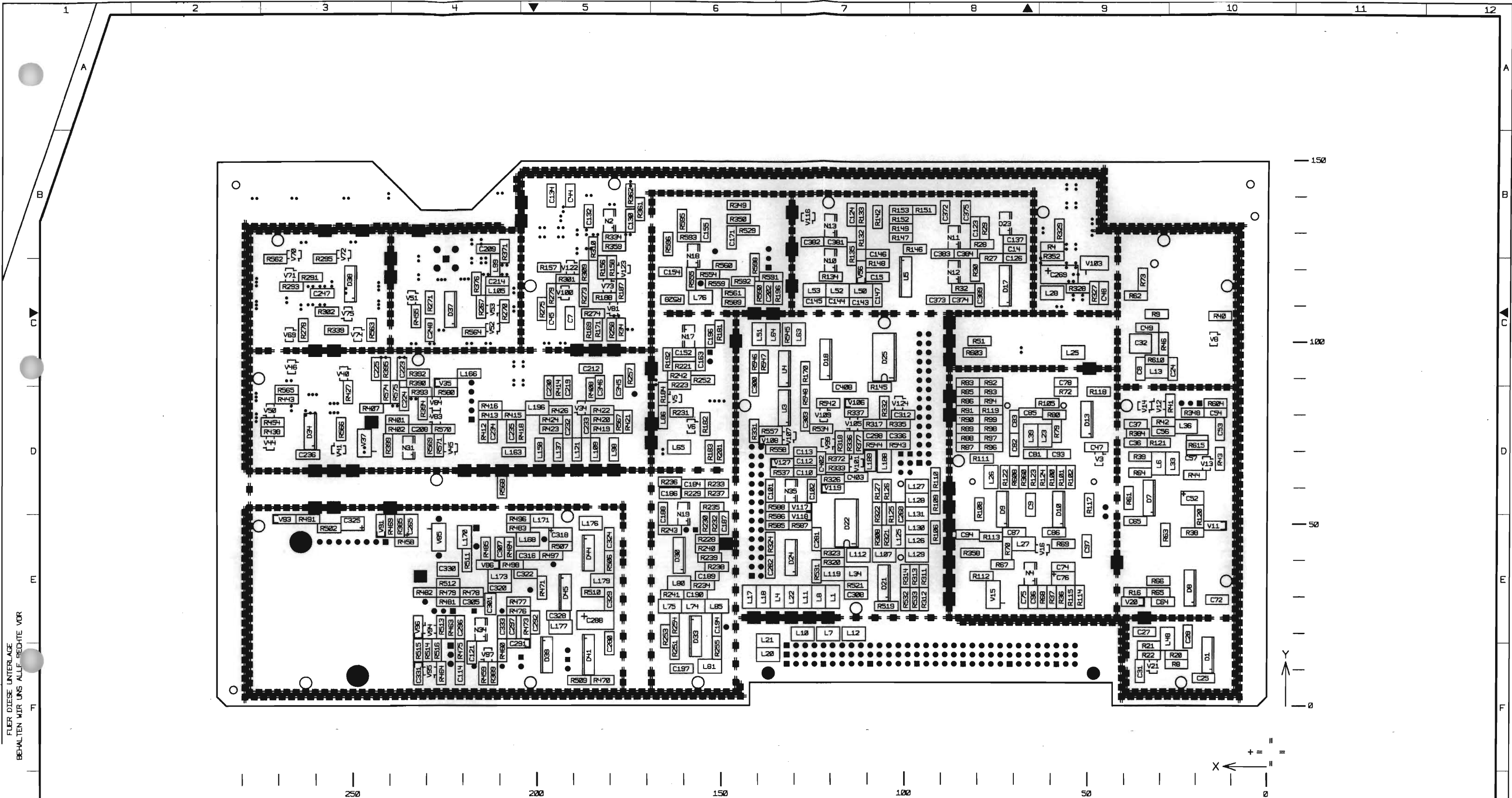
DARSTELLUNG SEITE B
VIEW ON SIDE B



FÜR BINDUNG ANGABEN LIEFER VARIANTEN,
TRÜMMERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.

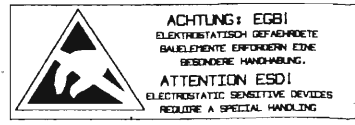
FOR BINDING INFORMATION ON MODELS,
TRIPPING AND COMPONENTS VALUES AND
NON-FITTED COMPONENTS SEE PARTS LIST.

07	50881	02.05	BL	↑OMK	TAG	NAME	BENENNUNG	
				BEARB.		BL	RF_SYNTHESIZER	
				GEPR.		BL		
				NORM				
				PLOTT	21.02.05			
06	50881	02.05	BL				ZEICHN.-NR.	BLATT-NR.
AEND. IND.	AENDERUNGS- MITTEILUNG	DATUM	NAME	ROHDE & SCHWARZ		1051.2307.01		1+
				ZU GERÄT	CMD	REG.I.V. 1050.9008	ERSTE Z. 1050.9008	V. BL.



FLIER DIESE LAYERLAGE BEHALTEN WIR UNS ALLF. RECHTE VOR

DARSTELLUNG SEITE A
VIEW ON SIDE A



ACHTUNG: ESD!
ELEKTROSTATISCH EMPFINDLICHE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN LIEFERN VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NON-FITTED COMPONENTS SEE PARTS LIST.

07	50881	02.05	BL	1CMK	TAG	NAME	BENENNUNG
				BEARB.		BL	RF_SYNTHESIZER
				GEPR.		BL	
				NORM			
				PLOTT	21.02.95		
06	50881	02.05	BL	ROHDE & SCHWARZ			ZEICHN.-NR.
AEND.	AENDERUNGS-	DATUM	NAME	ZU GERÄT CMD			1051.2307.01
IND.	MITTEILUNG						BLATT-NR.
							2+
							V. BL.
				REG. I. V. 1050.9008			ERSTE Z. 1050.9008

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

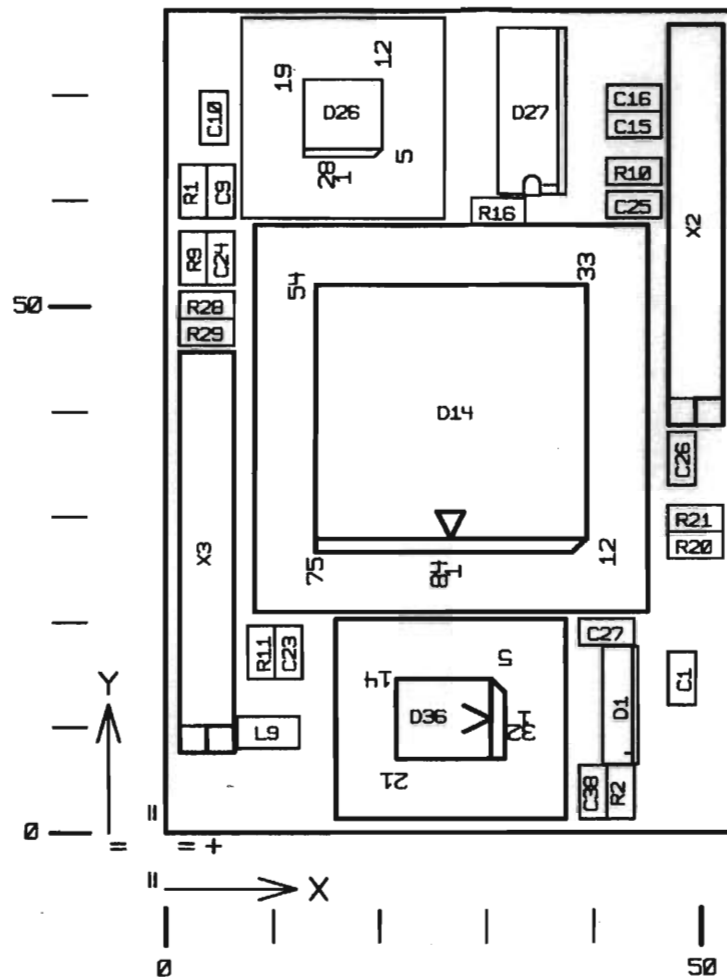
DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ENFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

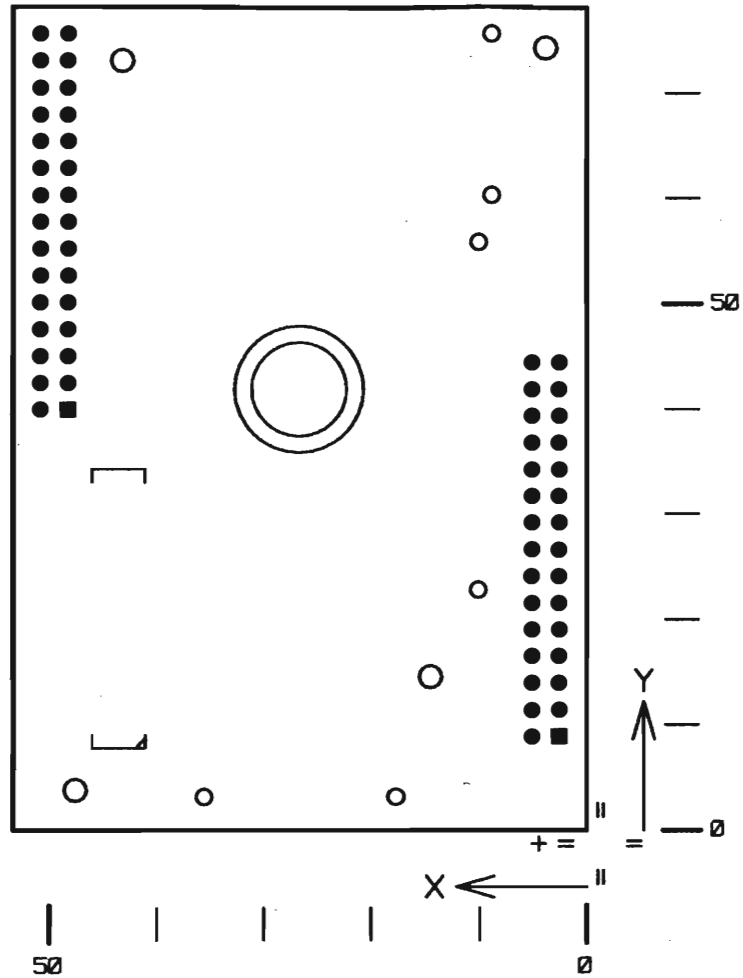
BINDENDE ANGABEN LIEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.



01	50681,	1.95	GL	1CMK	TAG	NAME	BENENNUNG TX_CORRECTION_BOARD	
				BEARB.		GL		
				GEPR.		GL		
				NORM				
				PLOTT	24.01.95			
AEND. IND.	AENDERUNGS- MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2907.01	BLATT-NR. 1+
				ZU GERÄT CMD			REG.I.V. 1050.9008	ERSTE Z. 1051.2307

FLIER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



DARSTELLUNG SEITE A
VIEW ON SIDE A



ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN LIEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.


FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

OH	50681	1.05	GL	1CMK	TAG	NAME	BENENNUNG	
				BEARB.		GL	TX_CORRECT I ON_BOARD	
				GEPR.		GL		
				NORM				
				PLOTT	24.01.05			
							ZEICHN.-NR.	
							1051.2907.01	
							REG.I.V. 1050.9008	ERSTE Z. 1051.2307
AEND. IND.	AENDERUNGS- MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ				BLATT-NR. 2+
				ZU GERÄT CMD				V. BL.



Für diese Unterlage behalten
wir uns alle Rechte vor.

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC MODEL VARO4=AUSF. F. CMD70/80 MODO4=MODEL F. CMD70/80 VARO6=AUSF. F. CTS-B1 MODO6=MODEL F. CTS-B1				
C4 . .6	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
G1	EO 10MHZ-QU.OSZ.OCXO 10V CRYSTAL OSCILLATOR OCXO NUR VAR/ONLY MOD: 02 06	0840.6413.00	TELEQUARZ	OCO 100-02 T 10 MHZ	
G1	EO 10MHZ-QU.OSZ.OCXO 10V CRYSTAL OSCILLATOR OCXO NUR VAR/ONLY MOD: 04	1051.6077.00	TELEQUARZ	EO 1051.6077	
R1	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R2	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R3	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R4	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RCO2	
R5	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R7	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R10	RS 0,3W 20KOHM+-10% CERMET CERMET POTENTIOMETER	RS 0086.7950.00	BOURNS	3296X-FB9-203	
V1	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V2	AE BZV55/C12 0,5W ZDI ZENER DIODE NICHT BESTUECKT	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V3	AD BAS32 75V UDI DIODE NICHT BESTUECKT	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V4	AD BAS32 75V UDI DIODE NICHT BESTUECKT	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V5	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V10	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V11	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V12	AD BAS32 75V UDI DIODE NICHT BESTUECKT	AD 0006.7288.00	PHILIPS	BAS32 (L)	
X1	FP BUCHSENLEISTE 8POL. RECEPTACLE BOARD NUR VAR/ONLY MOD: 02 04	FP 0286.8459.00	BERG_ELEKT	76323-.....	
X1	FP STIFTLAISTE 8P.R2,54 PIN CONNECTOR NUR VAR/ONLY MOD: 06	FP 0009.6182.00			

MENP1	510 3PU-D	Äi	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
		12	16.02.98	EE OCXO REFERENCE OSC.	1051.6054.01 SA	1-

095.0026-0693



XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

- Part** Bauelement-Kennzeichen.
- Side** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- XY** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part** Identification of instrument part.
- Side** Side of the PC board on which instrument part is positioned.
- XY** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG** Square and page of the diagram for the respective instrument part.

Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R10	B	43	13	2C	1	X1	B	36	40	1E	1						

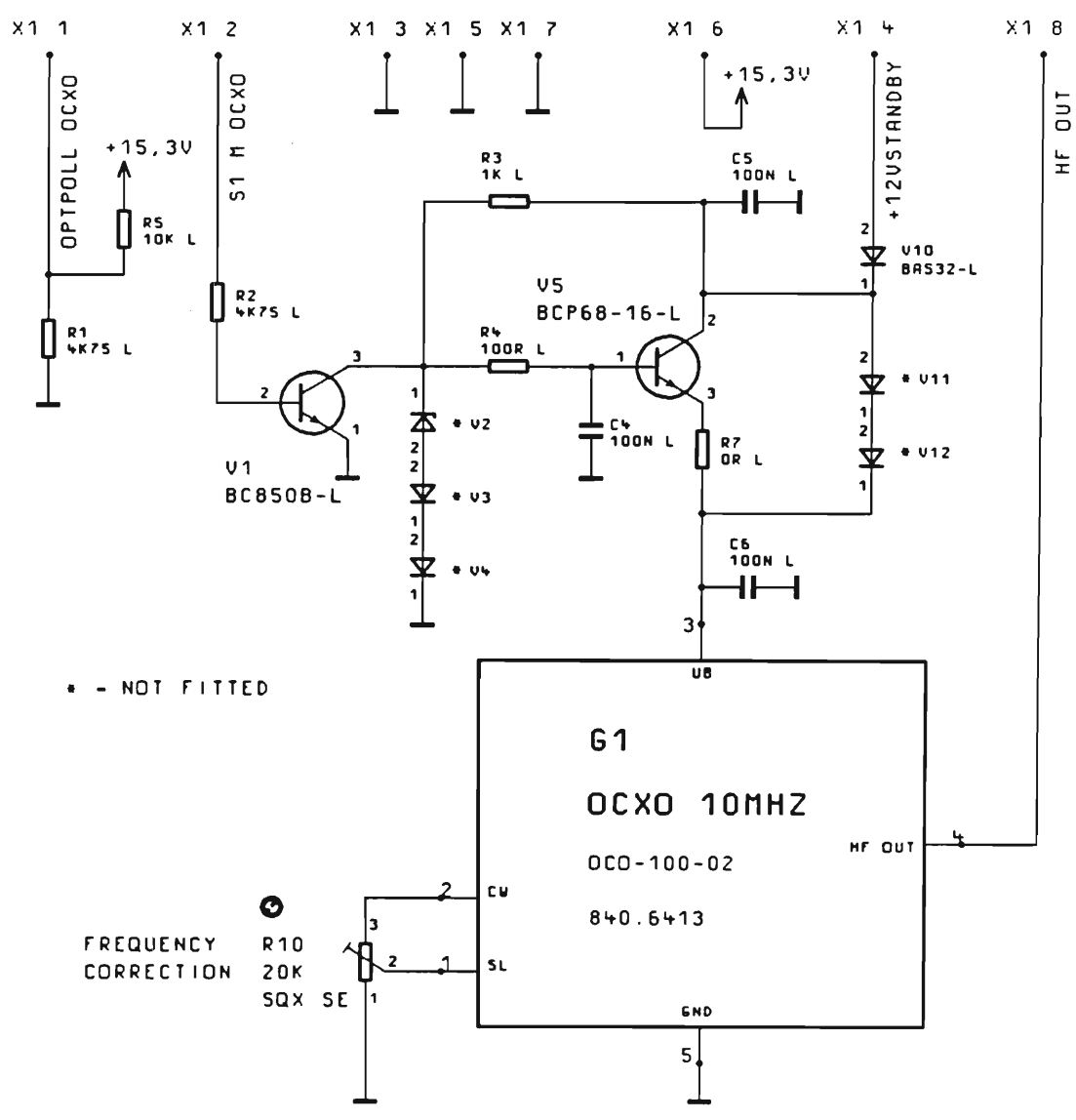
Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C4	A	20	23	3D	1	R3	A	23	15	2E	1	V3	A	20	12	2D	1
C5	A	16	27	3E	1	R4	A	22	19	2D	1	V4	A	12	12	2D	1
C6	A	34	27	3D	1	R5	A	28	34	2E	1	V5	A	14	24	3D	1
G1	B	34	13	2C	1	R7	A	25	28	3D	1	V10	A	24	36	4E	1
R1	A	34	36	1D	1	V1	A	29	19	2D	1	V11	A	20	32	4D	1
R2	A	30	29	2E	1	V2	A	27	16	2D	1	V12	A	27	27	4D	1

ROHDE & SCHWARZ	ÄI	Datum Date	03 13.03.95	XY-Liste für XY-list for	EE OCXO_REFERENCE_OSC.	Sach-Nummer Stock-Nr	1051.6054.01 XY	Blatt: Page	1-
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Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN. 1051.6054.01 S BL. 1



* - NOT FITTED

FREQUENCY CORRECTION R10 20K SQX SE



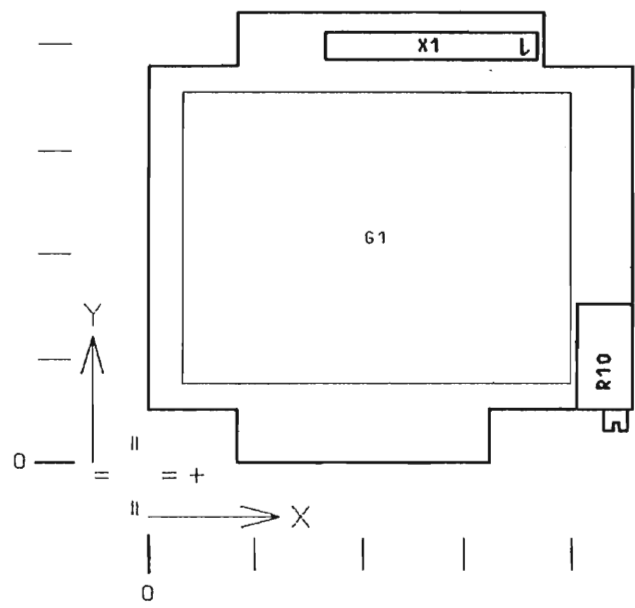
ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN ÜBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTÜCKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

04/	49546	03.95	NG	1CMK	TAG	NAME	BENENNUNG
				BEARB.		NG	OCXO REFERENCE OSC.
				GEPR.			
				WOPN			
				PLOTT	13.03.95		
03/	49546	04.93	GL			ZEICHN.-NR.	BLATT-NR.
REND. IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ		1051.6054.01S	1-
				ZU GERÄT	CMD-B1	PG 1 U	BL
						1051.6002	EPSTE 2
							1051.6002

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR
 FÜR ERNEUERUNG, VERÄNDERUNGEN KÖNNEN NUR DURCH RENDT
 DATENSATZES ERFOLGEN
 DIESE ZEICHNUNG IST E



DARSTELLUNG SEITE B
VIEW ON SIDE B



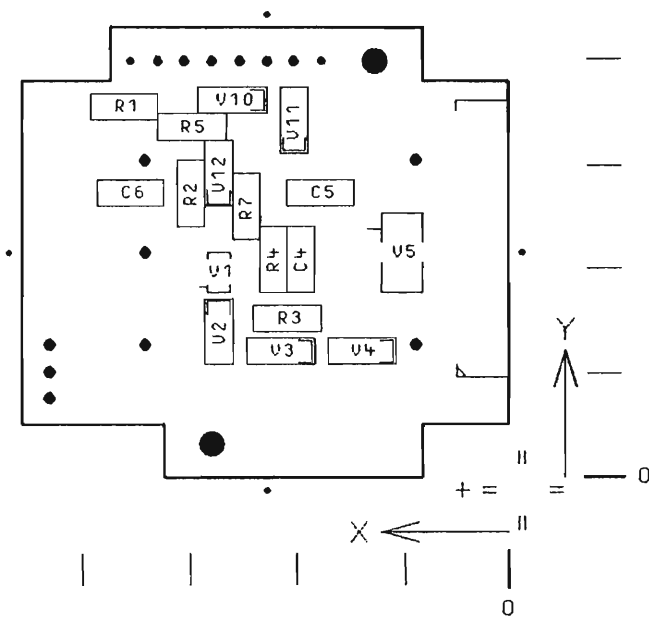
ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
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 REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTÜCKTE BAUTEILE SIEHE SA.

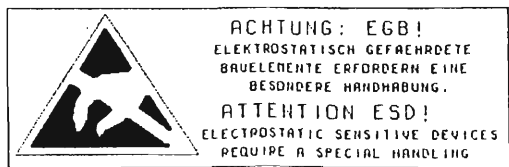
FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

03/	49546	03.95	NG	1CHK	TAG	NAME	BENENNUNG		Z
				BERPB.		NG	OCXO REFERENCE OSC.		
				GEPP.					
				NOPR	13.03.95				
02/	49546	03.93	GL			ZEICHN.-NP.		BLATT-NR.	
REND. IND.	RENDPUNGS- MITTEILUNG	DATUM	NAME	ROHDE & SCHWARZ ZU GEPRÄGT CHD-B1		1051.6054.01	EE	1+	
				PEG. I. V.	1051.6002	ERSTE Z.	1051.6002	BL.	

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE AN
 DIESE ZEICHNUNG IST IN RECHNERDRUCK, REBERUNGEN KOENNEN NUR DURCH RECHNERDRUCK ERFOELGEN



DARSTELLUNG SEITE A
VIEW ON SIDE A



BIHDENGE ANGEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SR.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

03/	49546	03.95	NG	1CMK	1AG	NAME	BENENNUNG	Z	
				BEARB.		NG	OCXO REFERENCE OSC.		
				GEPP.					
				NORN					
				PLOTT	13.03.95				
02/	49546	03.93	GL	 ROHDE & SCHWARZ		ZEICHN.-NR.		BLATT-NR.	
REND. IND.	RENDERUNGS- MITTEILUNG	DATUM	NAME			1051.6054.01		EE	24
				ZU GEHÖRT CMD-B1		REG.-N.R.	1051.6002	ERSTE Z.	1051.6002



ROHDE & SCHWARZ

SERVICE DOCUMENTS
Controller

1051.1000.02



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7 Service Instructions for the Controller Module

7.1 Function Description (cf. circuit diagram 1051.1000 S)

The controller board is the major computing unit of the CMD and has the following functions:

- realization of the user interface (menu control, keyboard entries, display outputs).
- control of further interfaces such as IEEE, RS232, printer, external keyboard.
- control of measuring tasks, display of results (DSP control).
- GSM/PCN signalling on layer 3 (control of the link handler).

7.1.1 CPU Kernel

The CPU kernel is the centre of the controller. It is a plug-in board which contains a variety of function units of an AT-compatible computer such as

- 80C386SX CPU
- socket for coprocessor
- 1 Mbits BIOS-EPROM
- Dynamic RAM, 2, 4, 8, 16 MByte
- Realtime clock
- IDE interface
- DMA controller
- Interrupt controller
- ISA-bus interface
- Keyboard interface
- Control signals for IDE interface
- Chip-select signals for COM 1, COM 2 and printer

Configuration of the controller functions is enabled by means of jumpers and DIP switches. See tables 7-1 and 7-2.

Table 7-1 Jumpers

Jumper	Default	Function
X23	close	DISCHARGE1: disconnects battery voltage from CMOS-RAM
X24	close	DISCHARGE2: disconnects battery voltage from CPU kernel
X21	close	IRQ14 for hard disk
X22	close	IOCS16 for hard disk
X29	open	IOCHRDY for hard disk
X25	close	IDE-ENH
X26	close	IDE-ENL
X27	close	IDE-D7
X32	close	Printer interrupt = IRQ7
X33	open	Printer interrupt = IRQ5
X34	open	EMMI (COM2) = IRQ4
X35	close	EMMI (COM2) = IRQ3
X36	close	RS232 (COM1) = IRQ4
X37	open	RS232 (COM1) = IRQ3
X54	close	Video controller IOR
X55	close	Video controller IOW

Table 7-2 DIP switches

Switch	Name	Default	Function			
S210/1	PIPLMO	off	Pipeline mode: off = yes, on = no			
S210/2	ISABusDrv	off	AT-bus driver: off = 24 mA, on = 12 mA			
S210/3	ROMWS0	off	3 ROM-	on 3 ROM-	off 1 ROM-	on 2 ROM-
S210/4	ROMWS1	off	Wait States	on Wait States	on Wait State	off Wait States
S210/5	CLKSEL0	on	AT-Bus-Clk=	off 4 MHz	on 2.6 MHz	off 2 MHz
S210/6	CLKSEL1	on	8 MHz	on	off	off
S210/7	DEFCFG	on	Default configuration: on = DIP switches, off = internal			
S210/8	RAMMAP0	off		on	on	off
S211/1	RAMMAP1	on	4 Module =	on 2 Module =	on 2 Module =	on 4 Module =
S211/2	RAMMAP2	off	4 MByte	off 2 MByte	on 8 MByte	on 16 MByte
S211/3	RAMMAP3	on		on	off	off
S211/4	REMAP384	on	Remap 384 K: on = disabled, off = enabled			
S211/5	DRAMWS	on	DRAM Wait States: on = 0 WS, off = 1 WS			
S211/6	PAGEMO	off	DRAM Pagemode: on = enable, off = disable			
S211/7	ROMMOVE0	on	E-Page=	off C-u. E-Page =	on LE = AT	off E-Page = AT
S211/8	ROMMOVE1	on	BIOS ROM	on AT-Bus	off UC = AT	off

7.1.2 RS232 and Printer Interfaces

Address decoding of the printer interface (LPT1) and the two serial interfaces (COM1, COM2) is performed by the chipset of the CPU kernels. Therefore, the chip VL16C452B (D37), which already contains all three interfaces, can be connected directly to the AT bus. Only a data driver (D380) is still required.

COM1 is designed as conventional RS232 interface. The component MAX239 (D360) performs the required level conversion.

The second serial interface is used as EMMI interface. This GSM-typical, serial interface requires only one transmit and one receive data line with TTL level, each.

7.1.3 FPGA (Field Programmable Gate Array)

The FPGA incorporates various function units.

7.1.3.1 Address Decoding

The FPGA generates all chip-select signals for the peripherals connected to the AT bus, the most of which are not accommodated on the controller board but on other modules. The following table gives a survey of the memory map.

Table 7-3 I/O addresses

Signal name	Address (HEX)	Width of words	Function
CS_OPTIONEN	100 - 17F	8 bits	Plug-on option
CS_IO_PORT	188 - 18B	16 bits	Write/Read port on controller board
CS_LH_CONTROL	18C	8 bits	Write/Read port on link handler
CS_DSP	190 - 19F	8 bits	DSP host interface
CS_SERBUS	1A0 - 1BF	16 bits	Serbus master on controller board
CS_MEM	1C0 - 1CF	16 bits	Memory card controller on optional board
CS_7210	-	-	Special predecoding for IEEE-bus interface
X2E0			Optionenträger
X2FI			

The FPGA generates the chip-select signals of the RAM areas of CMOS-RAM (controller board) and dual-port RAM (link-handler board) via the above I/O addresses. The addresses of these two memory areas can be software-configured.

7.1.3.2 Interrupt Controller

The number of interrupts to be processed requires another interrupt controller, since an AT system does not provide enough interrupt channels. Therefore, eight interrupt sources are collected and distributed on three AT interrupts (see table 7-4).

Table 7-4 Interrupt sources

AT interrupt	Source	Triggering
IRQ10	BITS_INT	Low level
	POWER_INT	Rising or falling edge
	I_INT	High level
IRQ11	SERBUS_INT1	Low level
	LH_INT	Low level
	DSP_INT	Low level
IRQ12	SERBUS_INT2	Low level
	AD_RDY	Rising edge

7.1.3.3 A/D-Converter Interface

The internal digital filter of the U-A/D converter is tuned exactly to the burst frequency. The required clock is generated from the 13-MHz frequency in the FPGA using a 1/91 divider.

The counterpart of the serial interface of the converter is also located in the FPGA. Transfer of a 16-bit converter result is carried out automatically and triggers an interrupt.

7.1.3.4 TDMA Counter

The FPGA also contains an extensive logic for generation of GSM/PCN-specific clock signals. E.g., the link-handler and the DSP board are provided with frame or slot clock signals. A few preparing signals control the FPGA of the option.

The "USERTRIGGER" signal, which can be applied to the multifunction connector of the instrument, is used to synchronize the internal TDMA reference to external signals.

7.1.4 I/O-Ports

Two 16-bit I/O ports are required to control a number of hardware switches and to read in various status bits. Read port 1 consists of the drivers D410, D420; write port 1 consists of the latches D415 and D425. Port 2 is exclusively used to control current measurement. Write port 2 consists of the latches D300 and D305. Read port 2 is used to read in the 16-bit result of the I-A/D converter. The meaning of the individual bits of the other ports can be looked up in the tables below.

Table 7-5 Write port 1

Bits	Signal name	active, if	Function				
0	IDENABLE	0	Hard disk-on/off via operating voltage				
1	BATTOFF	0	Separates battery from test multiplexer				
2	ENIRQ	0	Enables the interrupts of the interface chip for printer, COM1, COM2				
3	PARBIDIR	0	Enable-signal for printer port				
4	ADCS	0	Chip-select of the U-A/D converter				
5	ADUPOL	0	Polarity conversion of the input signal of the U-A/D converter				
6	ADCONV	1	Convert command for the U-A/D converter				
7	ADCAL	1	Calibrate command for the U-A/D converter				
8	Mess 0	Position of multiplexers:	0	1	0	1	0
9	Mess 1		0 Power	0 UBatt	1 DIAG	1 U_DC	0 Null Volt
10	Mess 2		0	0	0	0	1
11	RESETDSP	0	Reset signal for DSP board				
12	EDATAOUT	-	EEPROM data output				
13	ECLK	-	EEPROM data clock				
14	not used						
15	not used						

Table 7-6 Read port 1

Bits	Signal name	active, if	Function
0	SERBBUSY	1	Indicates Serbus activity (see Serbus specification)
1	ACTREQ	1	Serbus master requests activity of μ P (see Serbus specification)
2	LNMI311	1	Parity error occurred in dynamic RAM
3	ARDY	0	Ready signal of U-A/D converter
4	ISAMPLEVAL	0	Valid current-measurement value is ready to be fetched
5	reserved		
6	reserved		
7	reserved		
8	reserved		
9	reserved		
10	reserved		
11	reserved		
12	EDATAIN	-	EEPROM data input
13	reserved		
14	reserved		
15	reserved		

Table 7-7 Write port 2

Bits	Signal name	active, if	Function
0	I test mode	0	Average
1		0	Meas.ment
2		0	
3	IPEAKDET	0	Switches peak detector to detect mode
4	ICAL	1	Calibration of I-A/D converter
5	reserved		
6	IRESETINT	0	Reset/disable I-sample interrupt
7	INEWLOAD	0-1	Low pulse! Setting the I-sample counter with preload value
8	L0		Preload value of I-sample value
9	L1		
10	L2		
11	L3		
12	L4		
13	L5		
14	L6		
15	L7		

7.1.5 Battery-backed CMOS-RAM

The static CMOS-RAM D480 stores the instrument setting during operation on battery power. Due to the battery backup, the data are retained after switching off the instrument. MAX691 (D470) provides for switching over the voltage supply to the RAM from battery and for disabling the chip-select line in case of a voltage failure.

7.1.6 Video Interface

The video interface consists of the LCD controller 82C426A (D54), the static RAM D545 and the drivers D550, D560. The LCD controller has been designed for use in AT-compatible systems. It represents a CGA (colour graphics adapter) for the controller. It contains the complete address decoding thus ensuring that the ISA-bus signals can be connected directly to the chip. Only the data signals must be buffered by drivers, since the chips does not provide sufficient driver power.

Alternatively, the LCD controller may control an LC display or a CGA monitor. The required setting is made by the software. The signal CRT/LCD controls the ENABLE signals of the drivers D550/D560, accordingly.

The monitor signals are applied to the 10-contact connector X50, the LCD signals are transmitted via the motherboard connector.

7.1.7 DC Voltage Measurement

The following analog signals must be monitored or measured by the controller:

- the power signal which supplies the information on the current RF power,
- the battery voltage of the lithium battery to check the discharge degree of the battery
- the diagnostic voltage of the various boards
- the conditioned voltage measurement signal

The desired measurement source is selected using the multiplexer D620 and applied to the A/D converter D640. CS5507 is a 16-bit A/D converter which operates according to the sigma-delta method. This kind of A/D converter for dc signals offers the advantage of an integrated digital filter which ensures the 16-bit accuracy due to its narrow band.

The filter's utility for voltage measurement is enhanced by another feature: as measurements reveal, the operating voltage of a GSM PCN is likely to fluctuate in the rhythm of the burst frequency (approx. 217 Hz). Therefore, the clock frequency of the converter has been selected such that one notch of the transfer function of the filter exactly coincides with this frequency. Drops of the operating voltage are thus sufficiently smoothed

The 16-bit results of the A/D converter are loaded serially into the FPGA where the controller reads them by interrupt control

An operational amplifier type LT1077S8 (N600) is used as measurement amplifier. It ensures efficient common-mode rejection which is required because of the high input-voltage range. The resistors R603 and R600 set the dc amplification such that the voltage-measurement range of ± 30 V is transformed to the ± 2.5 V measuring range of the A/D converter. Due to the 16-bit resolution of the A/D converter, no switchover of the measuring range is required with small input voltages. The input impedance of 2 MOhm is obtained by the high-impedance resistors R600 and R601.

7.1.8 DC Current Measurement

The power consumption of the telephone is not consistent because of the time-slot method used by GSM and PCN. During the transmission time slot, power consumption is considerably higher than in the remaining 7 time slots. Since 8 time slots last approx. 4.6 ms, the basic frequency is approx. 217 Hz.

The operating time of a transceiver on battery power depends particularly on the average current consumption. This circuit, however, also allows for measuring the peak currents (see sheet 7 of circuit diagram).

The measuring amplifier N750 first amplifies the input signal by the factor 5 because of the low voltage drop at the shunt. The common-mode rejection and the amplifier offset are adjusted.

The signal then passes to the multiplexer D700. The controller selects the current measurement mode by means of the three control bits of the multiplexer (see table 7-7).

In "average" mode, the signal is passed via the amplifier N700 which adopts the function of a lowpass with the cutoff frequency 7 Hz to the A/D converter D730. This 16-bit A/D converter, type AD7701 is also a sigma-delta converter. The cutoff frequency of the internal digital filter is approx. 7.9 Hz. In conjunction with the lowpass N700, the pulsed current signal is thus sufficiently smoothed/flattened/ (integrated), such that it corresponds to the average current.

In "peak" mode, the peak value of the signal is first determined by the peak detector N710. The analog output signal of the peak detector then passes via the multiplexer directly to the A/D converter. The minimum and maximum current can be measured by switching the signal to the inverting or to the non-inverting input of the peak detector.

The 16-bit result of the A/D converter is written serially to the serial/parallel converter D340/D345 via the lines "ISCLK" and "ISDATA". Since the serial/parallel converter continuously supplies results and supplies them faster than required by the controller (3173.8 data/second), the sampling values are decimated by the hardware. This is achieved by the 8-bit counter D320, D325 in conjunction with the flip-flops D330. The counter is incremented with each new result of the A/D converter ("IDRDY" signal). The preload value L0-L7 controls the number of samples of the A/D converter left out. If, e.g., the preload values has been set to FE HEX, only every third value leads to an interrupt (signal "I_INT"). The decimation rate can be set between 3 (preload value = FE) and 257 (preload value = 00).

7.2 Adjustment

7.2.1 Adjustment of the Reference Voltage

The controller accommodates the reference-voltage generation for the overall instrument (sheet 6 of circuit diagram).

- Connect voltmeter to test point P651 (or to motherboard X71A2).
- Adjust reference voltage to 5 V using potentiometer R652.

7.2.2 Adjustment of DC Current Measurement

The service software is required for adjusting dc measurement. Select menu item "Adjust DC-Measurement" to perform menu-controlled offset adjustment first and then adjustment of the common-mode rejection. The potentiometers R755 and R754 are accessible via holes in the screening panel (with open instrument).

7.3 Interfaces

7.3.1 Monitor Connector X50

Pin	Signal name	Signal direction	Function
X50A1	INTENSITY	O	Brightness
X50A2	reserved		
X50A3	HSYNC	O	Horizontal sync.
X50A4	VSYNC	O	Vertical xync.
X50A5	reserved		
X50B1	GND		Ground
X50B2	GND		Ground
X50B3	R	O	Red
X50B4	G	O	Green
X50B5	B	O	Blue

Signal direction: O = output

7.3.2 Motherboard Connector X71

Pin	Signal name	Signal direction	Function
X71A1	AGND	-	Analog Ground
X71A2	+5-VREF	O	+5-V reference voltage
X71A3	GND	-	Ground
X71A4	-15.3 V	I	-15.3-V operating voltage
X71A5	+15.3 V	I	+15.3-V operating voltage
X71A6	+5.2 V	I	+5.2-V operating voltage
X71A7	+5.2 V	I	+5.2-V operating voltage
X71A8	+12 V	I	+12-V operating voltage
X71A9	ACFAIL	I	Voltage failure signal by the power supply
X71A10	SYSRESET	I	Reset signal by the power supply
X71A11	26 MHz	I	26-MHz reference clock
X71A12	BRESETDRV	O	Buffered reset signal for all boards
X71A13	BEEPER	O	Audio signal of the controller (speaker)
X71A14	S	O	LC display signals
X71A15	CP1	O	
X71A16	CP2	O	
X71A17	DISPD0	O	
X71A18	DISPD1	O	
X71A19	DISPD2	O	
X71A20	DISPD3	O	
X71A21	SERBCLK	I/O	Serbus signals
X71A22	SERBDATA	I/O	
X71A23	SERBINT	I	
X71A24	SERBSYNC	O	
X71A25	RTS	O	RS232 signals
X71A26	DTR	O	
X71A27	TXD	O	
X71A28	CTS	I	
X71A29	DSR	I	
X71A30	DCD	I	
X71A31	RI	I	
X71A32	RXD	I	
X71B1	I+	I	Input signals for dc measurement by the shunt
X71B2	I-	I	
X71B3	DELTAI	O	Amplified current signal to DSP
X71B4	U+	I	Input signal for dc measurement
X71B5	U-	I	
X71B6	DIAGNOSE	I	
X71B7	POWER	I	
X71B8	reserved		
X71B9	+5.2 V	I	+5.2-V operating voltage
X71B10	GND	-	Ground
X71B11	GND	-	Ground
X71B12	POWERINT	I	Power interrupt
X71B13	TDMARESET	O	Reset signal for TDMA logic on option
X71B14	USERTRIGGER	I	External trigger for TDMA logic
X71B15	RXFRMOUT	I	Synchronized frame-signal from link handler
X71B16	AFRAMEREF	O	Non-synchronized frame-signal to link handler
X71B17	DSPSLOTCLK	O	Slot-clock signal to DSP
X71B18	SLOTVIN	O	Slot clocks to FPGA on option
X71B19	SLOTVOUT	O	

Pin	Signal name	Signal direction	Function
X71B20	CSOPTIONEN	O	Chip-select for plug-on option
X71B21	CSDSP	O	Chip-select for DSP
X71B22	DSPINT	I	Interrupt from DSP
X71B23	RESETDSP	O	Reset signal for DSP
X71B24	BITSINT	I	Interrupt from bits interface
X71B25	reserved		
X71B26	CS_7210	O	Chip-select for IEEE-bus component 7210
X71B27	CSMEM	O	Chip-select for memory card
X71B28	X2E0	O	Further control signals for IEEE-interface
X71B29	X2F1	O	
X71B30	reserved		
X71B31	KEYBCLK	O	Serial interface to external keyboard
X71B32	KEYBDATA	O	
X71C1	HARDDISK5V	O	Operating voltage for hard disk
X71C2	FDCS	O	Chip-select for floppy (not used)
X71C3	I_RESET	O	IDE interface (harddisk)
X71C4	I_SD0	I/O	
X71C5	I_SD1	I/O	
X71C6	I_SD2	I/O	
X71C7	I_SD3	I/O	
X71C8	I_SD4	I/O	
X71C9	I_SD5	I/O	
X71C10	I_SD6	I/O	
X71C11	I_SD7	I/O	
X71C12	I_SD8	I/O	
X71C13	I_SD9	I/O	
X71C14	I_SD10	I/O	
X71C15	I_SD11	I/O	
X71C16	I_SD12	I/O	
X71C17	I_SD13	I/O	
X71C18	I_SD14	I/O	
X71C19	I_SD15	I/O	
X71C20	I_IOR	O	
X71C21	I_IOW	O	
X71C22	I_SA0	O	
X71C23	I_SA1	O	
X71C24	I_SA2	O	
X71C25	I_BALE	O	
X71C26	I_DECS0	O	
X71C27	I_DECS1	O	
X71C28	I_IOCHRDY	O	
X71C29	I_IRQ14	I	
X71C30	I_IOCS16	I	
X71C31	EMMITXD	O	EMMI interface
X71C32	EMMIRXD	I	

Signal direction: O = Output
I = Input

7.3.3 Motherboard Connector X72

Pin	Signal name	Signal direction	Function
X72A1	GND	-	Ground
X72A2	SYSCLK	O	AT-bus signals (See ISA bus specification)
X72A3	OSC	O	
X72A4	SD0	I/O	
X72A5	SD1	I/O	
X72A6	SD2	I/O	
X72A7	SD3	I/O	
X72A8	SD4	I/O	
X72A9	SD5	I/O	
X72A10	SD6	I/O	
X72A11	SD7	I/O	
X72A12	SD8	I/O	
X72A13	SD9	I/O	
X72A14	SD10	I/O	
X72A15	SD11	I/O	
X72A16	SD12	I/O	
X72A17	SD13	I/O	
X72A18	SD14	I/O	
X72A19	SD15	I/O	
X72A20	IOCHRDY	O	
X72A21	AEN	O	
X72A22	RESETDRV	O	
X72A23	IOW	O	
X72A24	IOR	O	
X72A25	SMEMR	O	
X72A26	SMEMW	O	
X72A27	BALE	O	
X72A28	IOCS16	I	
X72A29	TC	O	
X72A30	SBHE	O	
X72A31	REFRESH	O	
X72A32	MASTER	O	
X72B1	SA0	O	
X72B2	SA1	O	
X72B3	SA2	O	
X72B4	SA3	O	
X72B5	SA4	O	
X72B6	SA5	O	
X72B7	SA6	O	
X72B8	SA7	O	
X72B9	SA8	O	
X72B10	SA9	O	
X72B11	SA10	O	
X72B12	SA11	O	
X72B13	SA12	O	
X72B14	SA13	O	
X72B15	SA14	O	
X72B16	SA15	O	

Pin	Signal name	Signal direction	Function
X72B17	SA16	O	AT bus signals (See ISA bus specification)
X72B18	SA17	O	
X72B19	SA18	O	
X72B20	SA19	O	
X72B21	IRQ3	I	
X72B22	IRQ4	I	
X72B23	IRQ5	I	
X72B24	IRQ6	I	
X72B25	IRQ7	I	
X72B26	IRQ9	I	
X72B27	IRQ10	I	
X72B28	IRQ11	I	
X72B29	IRQ12	I	
X72B30	IRQ14	I	
X72B31	IRQ15	I	
X72B32	GND	-	Ground
X72C1	PD0	O	Printer signals
X72C2	PD1	O	
X72C3	PD2	O	
X72C4	PD3	O	
X72C5	PD4	O	
X72C6	PD5	O	
X72C7	PD6	O	
X72C8	PD7	O	
X72C9	STB	O	
X72C10	AFD	O	
X72C11	ERR	I	
X72C12	INIT	O	
X72C13	SLIN	O	
X72C14	ACK	I	
X72C15	BUSY	I	
X72C16	PE	I	
X72C17	SLCT	I	
X72C18	DRQ1	I	Signals of different DMA channels
X72C19	DACK1	O	
X72C20	DRQ2	I	
X72C21	DACK2	O	
X72C22	DRQ3	O	
X72C23	DACK3	I	
X72C24	DRQ5	I	
X72C25	DACK5	O	
X72C26	reserved		
X72C27	CSDPRAM	O	Chip-select signal for dual-port RAM on link handler
X72C28	CSLHCONTROL	O	Chip-select signal for write/read port on link handler
X72C29	LHDRVENABLE	O	Data-driver-Enable signal for link handler
X72C30	DRVDIR	O	Data driver direction signal for link handler
X72C31	LHINT	I	Interrupt signal from link handler
X72C32	GND	-	Ground

Signal direction: O = Output I = Input



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Schaltteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	XX VARIANTENERKLÄRUNG IDENTIFICATION OF MODELS VAR 02 = GRUNDAUSF.1 (386) MOD 02 = BASIC MODEL1(386) VAR 03 = GRUNDAUSF.1 (486) MOD 03 = BASIC MODEL1(486) VAR 04 = GRUNDAUSF.2 (386) MOD 04 = BASIC MODEL2(386) VAR 05 = GRUNDAUSF.2 (486) MOD 05 = BASIC MODEL2(486) VAR 06 = GRUNDAUSF.3 (386) MOD 06 = BASIC MODEL3(386) VAR 07 = GRUNDAUSF.3 (486) MOD 07 = BASIC MODEL3(486) VAR 08 = GRUNDAUSF.4 (386) MOD 08 = BASIC MODEL4(386) VAR 09 = GRUNDAUSF.4 (486) MOD 09 = BASIC MODEL4(486) VAR 10 = AUSF.F.CMD-B8 (486S, 4X1M) MOD 10 = MODEL FOR CMD-B8 (486S, 4X1M) VAR 11 = GRUNDAUSF.5(4X1M) MOD 11 = BASIC MOD.5(4X1M) VAR 12 = AUSF. F. CMD-U10 MOD 12 = MOD. F. CMD-U10 VAR 13 = GRUNDAUSF.6(2X4M) MOD 13 = BASIC MOD.6(2X4M) VAR 14 = AUSF. F. CMD-B8 (486S, 2X4M) MOD 14 = MOD. F. CMD-B8 (486S, 2X 4M) VAR 15 = GRUNDAUSF.7(1X8M) MOD 15 = BASIC MOD.7(1X8M) VAR 16 = AUSF. F. CMD-B8 (486D, 1X8M) MOD 16 = MOD. F. CMD-B8 (486D, 1X8M) VAR 17 = AUSF.F.CMD-U8 MOD 17 = MOD.F.CMD-U8 .. XX ZUGEH.STROML. CIRC.DIAGR. 1051.1000 S				
A71	GM 386SX-RECHNERKERN MOD. COMPUTER BOARD 386SX NUR VAR/ONLY MOD: 02 04 06 08 12	0008.8652.00	E_E_P_D_	386 SX-RECHN.KERN	
A71	GM 486SLC-RECHNERKERN 486SLC-COMPUTER BOARD NUR VAR/ONLY MOD: 03 05 07 09 10 11 13 14	0009.5563.00	E_E_P_D_	RECHNERK.80486SLC-33	
A71	GM 486DX2- RECHNERKERN 486DX2- COMPUTER BOARD NUR VAR/ONLY MOD: 15 16	1097.6705.00	E_E_P_D_	486DX2-50	
A700	BC 1MB SIMM30-MOD.70N DRAM MEMORY MODULE NUR VAR/ONLY MOD: 02 03 04 05 06 07 08 09 10 11	0008.7827.00	MICROCOMP_	991100(T/J)3NS-7(6)	
..700 A700	GM 8 MB SPEICHERMODUL MEMORY MODULE NUR VAR/ONLY MOD: 15 16 ENTHALTEN IN/INCLUDED IN A71	1097.6711.00	E_E_P_D_	SPEICHERMODUL 8MB	
A701	BC 4MB SIMM30-MOD.70N DRAM MEMORY MODULE NUR VAR/ONLY MOD: 12 13 14 ENTHALTEN IN/INCLUDED IN A71	0010.7289.00	MICROCOMP_	MSC994200J30S-7	
A703	BC 1MB SIMM30-MOD.70N DRAM MEMORY MODULE NUR VAR/ONLY MOD: 02 03 04 05 06 07 08 09 10 11 ENTHALTEN IN/INCLUDED IN A71	0008.7827.00	MICROCOMP_	991100(T/J)3NS-7(6)	

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B230	EO 16,000MHZ-QU.OSZ. 5V CLOCK OSZILLATOR	EO 0053.7968.00	TELEQUARZ	MCO 1500 B	
B235	EO 40.000MHZ-QU.OSZ 5V QUARTZ CRYSTAL UNIT	1051.4316.00	PHILIPS_CO	XOS 5460 W	
B360	EO 1.8432MHZ-QU.OSZ 5V CLOCK OSCILLATOR	1006.4204.00	PHILIPS_CO	XO(H)CS6460W	
C201	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C205	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C207	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C230	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C250	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C251	CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITOR	CE 0007.7281.00	KEMET	T491 C 106 K 010 AS	
C252	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C260	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C270	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C280	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C300	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C301	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C305	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C315	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C320	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C325	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C326	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C330	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C340	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C345	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C360	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C361	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	KEMET	T491D106K025AS	
C362	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C363	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C370	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C375	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
..379	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C380	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C381	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
..384	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C385	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C386	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
C387	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
C388	CC 2,2NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8444.00	PHILIPS_CO	2222 581 16618	
C400	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C401	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C410	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	

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C415	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C420	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C425	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C428	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C430	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C431	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C435	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C450	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C451	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C460	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C462	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C470	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C480	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C500	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C501	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C502	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C505	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C510	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C515	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C516	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C517	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C520	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C525	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C530	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C531	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C535	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C540	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C545	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C550	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C551	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD 01 03 04 05 06 07 08 09 11 12 13 15	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C556					
C560	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C600	CC 5,6NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.3240.00	PHILIPS_CO	2238 581 16624	
C601	CC 5,6NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.3240.00	PHILIPS_CO	2238 581 16624	
C603	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C604	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C610	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C611	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C620	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C630	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C640	CE 10UF+-20%25V SAL ELECTR.CAPACITOR	CE 0007.3934.00	VALVO	2222 128 36109	
C641	CE 10UF+-20%25V SAL ELECTR.CAPACITOR	CE 0007.3934.00	VALVO	2222 128 36109	
C642	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..645	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C646	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C650	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
..652	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C654	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C660	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C661	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C665	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C666	CE 22UF+-20%63V RM5 ELECTROLYTIC CAPACITOR	0008.7433.00	PHILIPS_CO	2222 116 90111	
C700	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C701	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C702	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C703	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C705	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 50PT	
C710	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C711	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C712	CK 4,7NF +-1% 63V RM5 KP POLYPROPYLENE CAPACITOR	0007.7630.00	ROEDERSTEI	KP1830-247 06 1 3 W	
C730	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C731	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C732	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C733	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C734	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C735	CE 10UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7427.00	PHILIPS_CO	2222 116 11109	
C736	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C751	CK 33NF +-1% 63V RM5 KP POLYPROPYLENE CAPACITOR	CK 0007.7681.00	ROEDERSTEI	KP1830-333 06 1(3)W	
C752	CK 33NF +-1% 63V RM5 KP POLYPROPYLENE CAPACITOR	CK 0007.7681.00	ROEDERSTEI	KP1830-333 06 1(3)W	
C753	CE 4,7UF+-20%50V RM2,5 ELECTROLYTIC	CE 0008.7410.00	PHILIPS_CO	2222 116 11478	
C754	CE 4,7UF+-20%50V RM2,5 ELECTROLYTIC	CE 0008.7410.00	PHILIPS_CO	2222 116 11478	
C800	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C801	CE 470UF+-20% 16V RM5 ELECTROLYTIC CAPACITOR	CE 0008.1993.00	NAT_PANASO	ECA 1CFG 471 B	
..804	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C805	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C806	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C810	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C811	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C812	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	
C813	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	

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C814	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C815	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C820	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C821	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C822	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	
C823	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	
C824	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C825	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C830	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C831	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C832	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	
C833	CE 47UF+-20%50V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7479.00	PANASONIC	ECA-1HFG470I	
C834	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C835	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
D37	BC VL16C452B SER.COM CTR IC SERIAL COM.CONTROL	1051.4580.00	STARTECH_S	ST16C452CJ68	
D45	BG SERBUS-MZE ASIC IC GATEARRAY	1066.1976.00	FRAUNH_IFT	SERBUSM2E	
D51	HS FPGA D51 CONTROLLER CONTROLLER	1051.1098.00			
D54	BC 82C426 LCD-CTR IC LCD-CONTROLLER	1051.4268.10			
D211	HS BIOS BIOS NUR VAR/ONLY MOD: 02 03 04 05 06 07 08 09 10 11 12 13 ENTHALTEN IN/INCLUDED IN A71	1051.1123.00			14
D211	HS BIOS BIOS NUR VAR/ONLY MOD: 15 16 ENTHALTEN IN/INCLUDED IN A71	1051.1130.00			
D212	BC 80387SX MATH COPROC MATH COPROCESSOR NUR VAR/ONLY MOD: 03 05 07 09 10 11 13 14 ENTHALTEN IN / INCLUDED IN A71	0008.7810.00	INTEL	(EU)BOX387SX-20(25)	
D230	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)	
D250	BL PC74HCT123T 2XMONOFLOP DUAL MULTIVIBRATOR	BL 0007.6333.00	PHILIPS_SE	(PC)74HCT123(D/T)	
D260	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D270	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D280	BL PC74HCT244T 8XBUFF 3S OCTAL BUFFER	BL 0007.6562.00	PHILIPS_SE	(PC)74HCT244D(T)	
D300	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D305	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D315	BL PC74HCT02T 4X2IN NORQ QUAD 2INPUT NORGATE	BL 0007.5366.00	PHILIPS_SE	(PC)74HCT02(D/T)	
D320	BL PC74HCT161T BIN.COUNT. BINARY COUNTER	BL 0007.6427.00	PHILIPS_SE	(PC)74HCT161(D/T)	
D325	BL PC74HCT161T BIN.COUNT. BINARY COUNTER	BL 0007.6427.00	PHILIPS_SE	(PC)74HCT161(D/T)	
D330	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)	
D340	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	

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D345	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D360	BJ MAX239CWG RS232 3TX5RX RS232-TRANSCEIVER	1003.0908.00	MAXIM	MAX239CWG	
D380	BL PC74HCT245T 8XTRANS OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D385	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D400	BL PC74HCT04T 6XINVERT HEXINVERTER	BL 0007.5372.00	PHILIPS_SE	(PC)74HCT04(D/T)	
D410	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D415	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D420	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D425	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D428	BC X24C16S14 2KX8 EEPROM SERIAL EEPROM	1028.8190.00	XICOR	X24C16S(14)	
D430	BL PC74HCT32T 4X2IN ORG QUAD 2INPUT OR GATE	BL 0007.5389.00	PHILIPS_SE	(PC)74HCT32(D/T)	
D435	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D460	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D470	BO MAX691CWE SUPERVISOR IC UP VOLTAGE SUPERVISOR	1006.4162.00	MAXIM	MAX691CWE	
D480	BC TC5564PL-15 8KX8 SRAM SRAM	BC 0006.9645.10			
D500	BL PC74HCT245T 8XTRANS OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D502	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D505	BL PC74HCT245T 8XTRANS OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D515	BL 74ACOOSC 4X2IN NAND QUAD NAND GATTER	BL 0820.3477.00	NSC	74ACO0(SC)	
D520	BL 74F74D 2XD-FF DUAL D-TYPE FLIPFLOP	BL 0007.3686.00	PHILIPS_SE	(N)74F74(D)	
D525	BL PC74HCT14T 6XINV.SCHM INV. SCHMITT-TRIGGER	BL 0007.6204.00	PHILIPS_SE	(PC)74HCT14(D/T)	
D530	BL PC74HCT32T 4X2IN ORG QUAD 2INPUT OR GATE	BL 0007.5389.00	PHILIPS_SE	(PC)74HCT32(D/T)	
D535	BL PC74HCT04T 6XINVERT HEXINVERTER	BL 0007.5372.00	PHILIPS_SE	(PC)74HCT04(D/T)	
D545	BC 84256-12LP 32KX8 SRAM RAM	0007.6985.00	NEC	UAPD43256GU-12L	
D550	BL PC74HCT244T 8XBUFF 3S OCTAL BUFFER	BL 0007.6562.00	PHILIPS_SE	(PC)74HCT244D(T)	
D560	BL PC74HCT244T 8XBUFF 3S OCTAL BUFFER	BL 0007.6562.00	PHILIPS_SE	(PC)74HCT244D(T)	
D620	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D630	BL PC74HC4053T 3X2CH.MUX MULTIPLEXER	BL 0804.0948.00	PHILIPS_SE	(PC)74HC4053(D/T)	
D640	BJ CS5507AS 1X16B.ADC IC ANALOG/DIGITAL CONV	1051.4280.00	CRYSTAL	CS5507-AS	
D700	BL PC74HCT4053T 3X2CH.MUX ANALOG MULTIPLEXER	BL 0007.6840.00	PHILIPS_SE	(PC)74HCT4053(D/T)	
D730	BJ AD7701AR 1X16B-ADC IC A/D CONVERTER	1051.4300.00	ANALOG_DEV	AD7701AR	
G210	EB 3,4V LITHIUM-BATTERIE LI BATTERY	0565.1687.00	ACCU_SONNE	SL-750/P/009 1110750	
L515	LD 1,8UH 10% 0,29A 1210 SMD-INDUCTOR	0008.8998.00	SIEMENS	B82422-A1182-J(K)100	
L550	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
	NUR VAR/ONLY MOD: 02 03 04 05 06 07 08 09 11 12 13 15				
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L810	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L820	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L830	LD 10UH 10% O,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
N600	BO LT1077S8 LP OPAMP OPAMP	0828.4714.00	LINEAR_TEC	LT1077(S8)	
N610	BO LT1077S8 LP OPAMP OPAMP	0828.4714.00	LINEAR_TEC	LT1077(S8)	
N650	BO OPO7CS8 OPAMP OPERATIONAL AMPLIFIER	0007.7781.00	LINEAR_TEC	LT1001(CS8)	
N660	BO LF412CN 2XFET OPAMP OPERATIONAL AMPLIFIER	0356.0521.00	NSC	LF412CN	
N700	BO TLO62ACP LP2XFET OPAMP OPERATIONAL AMPLIFIER	0653.2832.00	TEXAS	TL 062 ACP	
N710	BJ PKD01FP PEAK DETECT PEAK DETECTOR	0358.6256.00	PMI	PKD-01FP (FY)	
N750	BO LT1012CN8 LP OPAMP OPERATIONAL AMPLIFIER	0373.2687.00	LINEAR_TEC	LT 1012 CN8	
P330	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P331	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P340	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P341	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P630	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P650	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P651	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P660	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P700	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P730	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R200	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R210	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R211	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R212	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R220	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R222	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R230	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R231	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R235	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R236	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R237	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R250	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R251	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R255	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R260	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R266	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R270	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R271	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R272	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R273	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R275	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R281 ..288	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R310	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R320	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R325	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R330	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R331	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R360	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R370	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R371	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R372	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R373	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R375 ..378	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R380	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R381 ..388	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R389 ..393	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R410	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R411	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R412	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R420 ..427	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R430	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R450	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0729.00	ROEDERSTEI	D25	
R451	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R452	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R453	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R460	RG 619 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9074.00	ROEDERSTEI	D25	
R461	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R462	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R463	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R470	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R471	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R502	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R510	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R511	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R515	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R516	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R517	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R518	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R519	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R520	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R522	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R525	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R535	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R540	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R541	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	D25	
R542	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R560	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R561	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
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R600	RL 0,25W 1MOHM 0,1%TK25 METAL-FILM RESISTOR	0840.8080.00	ROEDERSTEI	MK 2	
R601	RL 0,25W 1MOHM 0,1%TK25 METAL-FILM RESISTOR	0840.8080.00	ROEDERSTEI	MK 2	
R602	RL 0,35W82,5KOHM+-0,1%T25 RESISTOR	RL 0084.4825.00	DRALORIC	SMA0207	
R603	RL 0,35W82,5KOHM+-0,1%T25 RESISTOR	RL 0084.4825.00	DRALORIC	SMA0207	
R608	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R610	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R611	RL 0,35W49,9KOHM+-0,1%T25 RESISTOR	RL 0084.4402.00	DRALORIC	SMA0207	
R620	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R623	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R625	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R630	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R631	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R632	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R633	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R634	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R635	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R640	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R641	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R642	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	ROEDERSTEI	D25	
R650	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	D25	
R651	RG 9,09KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0787.00	ROEDERSTEI	D25	
R652	RS 0,3W 10KOHM+-10% CERMET DEPOS-CARBON POTENTIOMET	RS 0086.7944.00	BI_TECHNOL	66X ODER 67X	
R653	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	ROEDERSTEI	D25	
R655	RL 0,35W10,0KOHM+-0,1%T25 RESISTOR	RL 0084.3064.00	DRALORIC	SMA0207	
R656	RL 0,35W10,0KOHM+-0,1%T25 RESISTOR	RL 0084.3064.00	DRALORIC	SMA0207	
R660	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	D25	
R661	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	D25	
R662	RL 0,60W 182 OHM+-1%TK50 RESISTOR	RL 0083.0010.00	RESISTA	MK2	
R700	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

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095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R701	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R702	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R704	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R705	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
R710	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R711	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R712	RL 0,35W10,0KOHM+-0,1%T25 RESISTOR	RL 0084.3064.00	DRALORIC	SMA0207	
R713	RL 0,35W10,0KOHM+-0,1%T25 RESISTOR	RL 0084.3064.00	DRALORIC	SMA0207	
R714	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R716	RL 0,35W100KOHM+-0,1%TK25 RESISTOR	RL 0084.4983.00	DRALORIC	SMA0207	
R718	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R731	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	ROEDERSTEI	D25	
R732	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R733	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R735	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R736	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R737	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R738	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R750	RN R-NETZWERK R-ARRAY	1051.4345.00	PHILIPS_CO	3322 073 29431	
R754	RS 0,3W200 OHM+-10% CERMET DEPOS-CARBON POTENTIOMET	RS 0086.7896.00	BI_TECHNOL	66X 0. 67X	
R755	RS 0,3W 5KOHM+-10% CERMET CERMET POTENTIOMETER	RS 0086.7938.00	BI_TECHNOL	66X ODER 67X	
R756	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	D25	
S210	SK CODIERSCH.DIL.8-POLIG SWITCH	SK 0099.1962.00	GRAYHILL	76 YY 23018-S	
S211	SK CODIERSCH.DIL.8-POLIG SWITCH	SK 0099.1962.00	GRAYHILL	76 YY 23018-S	
V200	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V201	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V208	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V210	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V620	AE BZV55/C3V9 0,5W ZDI ZENER DIODE	AE 0006.9816.00	PHILIPS_SE	BZV55B3V9	
V621	AE BZV55/C3V9 0,5W ZDI ZENER DIODE	AE 0006.9816.00	PHILIPS_SE	BZV55B3V9	
V650	AE 1N827 6,2V REF DI REFERENCE DIODE	AE 0418.0029.00	COMPENSATE	1N827(A)	
V660	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
X21	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR	FP 0242.3600.00	BINDER	742-11-0179-00-36	
X32	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR	FP 0242.3600.00	BINDER	742-11-0179-00-36	
X54	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR	FP 0242.3600.00	BINDER	742-11-0179-00-36	
X55	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR	FP 0242.3600.00	BINDER	742-11-0179-00-36	
X71	FP STECKERLAISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X72	FP STECKERLEISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X200	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747	
X201	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747	
X20A	FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X20B	31-POLIG/31 PINS FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X20C	20-POLIG/20 PINS FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X20D	20-POLIG/20 PINS FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X20E	20-POLIG/20 PINS FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X20F	20-POLIG/20 PINS FP STIFTL. 36P.R2,54 PIN CONNECTOR	FP 0279.1669.00	BINDER	11-0201-00-36	
X50A	20-POLIG/20 PINS FP STIFTL.WIN 36P.R2,54 ANGLE PIN CONNECTOR	FP 0243.3578.00	BINDER	742-5-11-0187-00-36	
X50B	5-POLIG/5 PINS FP STIFTL.WIN 36P.R2,54 ANGLE PIN CONNECTOR	FP 0087.9105.00	BINDER	742-5-11-0191-00-36	
Z800	LD PI-FILTER 10GHZ SMD SMD-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	

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XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

- Part:** Bauelement-Kennzeichen.
- Side:** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- X/Y:** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG:** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part:** Identification of instrument part.
- Side:** Side of the PC board on which instrument part is positioned.
- X/Y:** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG:** Square and page of the diagram for the respective instrument part.



Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
A71	B	142	32	2A	2	C460	A	106	99	5A	4	C711	A	23	55	4B	7
B230	B	173	131	5C	2	C470	A	237	44	5A	4	C712	B	27	47	4B	7
B235	B	159	131	5C	2	C480	A	256	37	6A	4	C730	A	51	39	5E	7
B360	B	138	131	7D	3	C500	A	204	42	1A	5	C731	A	53	38	6F	7
C201	B	151	131	1A	2	C501	B	208	70	1A	5	C732	B	56	56	5D	7
C205	B	176	15	7D	2	C502	A	223	41	2A	5	C733	B	58	56	6D	7
C207	A	173	16	8D	2	C505	A	207	28	2A	5	C734	B	41	45	5E	7
C230	A	147	45	1A	2	C510	A	228	84	5B	5	C735	B	40	51	5D	7
C250	A	259	67	2A	2	C515	A	138	113	3A	5	C736	B	51	56	6E	7
C251	A	256	64	9E	2	C516	A	123	114	5E	5	C750	A	29	37	2E	7
C252	B	107	89	2A	2	C517	A	120	112	5E	5	C751	B	36	34	2E	7
C260	A	177	42	3A	2	C520	A	145	57	3A	5	C752	B	23	38	2E	7
C270	A	177	58	3A	2	C525	A	227	65	3A	5	C753	B	29	41	2E	7
C280	A	172	31	3A	2	C530	A	237	71	4A	5	C754	B	19	46	2D	7
C300	A	169	78	2A	3	C531	B	210	93	4A	5	C800	A	148	18	9E	8
C301	B	135	87	1A	3	C535	A	155	110	5A	5	C801	B	149	13	9E	8
C305	A	152	78	2A	3	C540	A	232	94	8B	5	C802	B	119	44	10E	8
C315	A	192	95	2A	3	C545	A	256	94	5A	5	C803	B	133	47	10E	8
C320	A	166	110	3A	3	C550	A	72	116	5A	5	C804	B	110	47	10E	8
C325	A	180	110	3A	3	C551	A	68	131	11E	5	C805	A	128	31	10E	8
C326	B	134	34	3A	3	C552	A	68	127	11E	5	C806	A	131	31	11E	8
C330	A	197	112	4A	3	C553	A	72	119	11D	5	C810	A	109	20	9D	8
C340	A	164	95	4A	3	C554	A	72	123	11D	5	C811	A	106	20	9D	8
C345	A	154	95	5A	3	C555	A	72	140	11D	5	C812	B	108	34	9D	8
C360	A	72	55	6A	3	C556	A	72	136	11D	5	C813	B	92	45	10D	8
C361	A	79	70	6A	3	C560	A	72	98	6A	5	C814	A	103	31	10D	8
C362	A	72	75	8E	3	C600	A	47	72	2E	6	C815	A	100	31	10D	8
C363	A	72	57	6A	3	C601	A	30	69	3F	6	C820	A	122	20	9D	8
C370	A	97	66	10C	3	C603	A	21	77	3E	6	C821	A	125	20	9D	8
C375	A	125	83	8C	3	C604	A	36	72	3E	6	C822	B	126	34	9D	8
C376	A	125	80	8C	3	C610	A	27	84	3D	6	C823	B	97	45	10D	8
C377	A	125	77	8C	3	C611	A	41	82	3D	6	C824	A	119	31	10D	8
C378	A	125	75	8C	3	C620	A	44	98	2A	6	C825	A	116	31	10D	8
C379	A	125	55	8C	3	C630	A	57	103	2A	6	C830	A	94	20	9D	8
C380	A	203	77	5A	3	C640	B	51	83	3B	6	C831	A	91	20	9D	8
C381	A	125	57	8C	3	C641	B	57	79	3A	6	C832	B	93	34	9D	8
C382	A	125	60	8C	3	C642	A	47	86	3A	6	C833	B	82	48	10D	8
C383	A	125	62	8C	3	C643	A	59	89	3A	6	C834	A	89	31	10D	8
C384	A	125	65	8C	3	C644	A	60	80	3A	6	C835	A	85	31	10D	8
C385	A	176	95	5A	3	C645	A	59	86	3A	6	D37A	B	104	82	10C	3
C386	A	125	67	8C	3	C646	A	46	88	7D	6	D45A	B	116	108	7A	4
C387	A	125	70	8C	3	C650	A	23	112	4A	6	D51A	B	230	89	3C	5
C388	A	125	72	8C	3	C651	A	23	120	4A	6	D54A	B	232	115	8C	5
C400	A	169	44	1A	4	C652	A	29	114	3B	6	D230-A	A	138	46	5D	2
C401	B	135	125	1A	4	C654	A	26	104	4C	6	D230-B				8B	5
C410	A	136	91	2A	4	C660	A	51	126	4A	6	D230-C				2A	2
C415	A	203	61	2A	4	C661	A	43	117	5A	6	D250-A	A	250	67	9E	2
C420	A	185	61	3A	4	C665	A	50	123	7C	6	D250-B				7A	2
C425	A	185	78	3A	4	C666	B	27	98	7C	6	D250-C				2A	2
C428	A	169	57	4A	4	C700	A	55	43	6C	7	D260-A	A	187	39	10E	2
C430	A	159	44	4A	4	C701	A	38	37	7C	7	D260-B				3A	2
C431	B	213	37	4A	4	C702	A	56	32	7B	7	D270-A	A	187	56	10D	2
C435	A	159	57	5A	4	C703	A	59	35	4D	7	D270-B				3A	2
C450	A	109	108	7A	4	C705	A	20	22	4E	7	D280-A	A	157	28	10C	2
C451	B	77	80	8A	4	C710	A	32	55	4C	7	D280-B				10B	2

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D280-C				3A	2	D435-D				6B	2	D620-A	A	35	100	5E	6
D300-A	A	158	81	2F	3	D435-E				5A	4	D620-B				2A	6
D300-B				2A	3	D460-A	A	98	102	8D	4	D630-A	A	48	103	7F	6
D305-A	A	141	81	2E	3	D460-B				8C	4	D630-B				2A	6
D305-B				2A	3	D460-C				8C	4	D640-A	B	60	98	7D	6
D315-A	A	185	97	1C	3	D460-D				8C	4	D640-B				3A	6
D315-B				10E	2	D460-E				5A	4	D700-A	A	46	43	4E	7
D315-C				8A	3	D470-A	A	241	41	9E	4	D700-B				6C	7
D315-D				8A	3	D470-B				5A	4	D730	B	60	53	6E	7
D315-E				2A	3	D480-A	B	253	53	11E	4	G210	B	91	135	1A	2
D320-A	A	159	113	3D	3	D480-B				6A	4	L515	A	124	109	5E	5
D320-B				3A	3	D500-A	A	194	44	2E	5	L550	A	74	129	11E	5
D325-A	A	173	113	4D	3	D500-B				2A	5	L551	A	74	125	11E	5
D325-B				4A	3	D502-A	A	214	41	1F	5	L552	A	74	121	11E	5
D330-A	A	191	114	5D	3	D502-B				1E	5	L553	A	74	117	11E	5
D330-B				6D	3	D502-C				3F	5	L554	A	74	133	11D	5
D330-C				4A	3	D502-D				3A	5	L555	A	74	137	11D	5
D340-A	A	157	97	3C	3	D502-E				2A	5	L810	A	100	34	10D	8
D340-B				4A	3	D505-A	A	194	28	2D	5	L820	A	116	34	10D	8
D345-A	A	144	97	4C	3	D505-B				2A	5	L830	A	85	34	10D	8
D345-B				5A	3	D515-A	A	129	111	5E	5	N600	A	32	76	3E	6
D360-A	A	75	52	8E	3	D515-B				3B	5	N610	A	37	86	3D	6
D360-B				6A	3	D515-C				3B	5	N650-A	B	27	115	3C	6
D380-A	A	192	81	10E	3	D515-D				3A	5	N650-B				4A	6
D380-B				5A	3	D515-E				3A	5	N660-A	B	39	123	4C	6
D385-A	A	173	97	8D	3	D520-A	A	138	59	6E	5	N660-B				6B	6
D385-B				8D	3	D520-B				7B	5	N660-C				4A	6
D385-C				10E	2	D520-C				3A	5	N700-A	B	48	28	4D	7
D385-D				7A	2	D525-A	A	220	68	6D	5	N700-B				5B	7
D385-E				6A	3	D525-B				2B	5	N700-C				7C	7
D400-A	A	163	46	4E	4	D525-C				2B	5	N710	B	34	58	4B	7
D400-B				4E	4	D525-D				2B	5	N750	B	25	36	2E	7
D400-C				1D	4	D525-E				2B	5	P330	B	116	89	5D	3
D400-D				6D	2	D525-F				2A	5	P331	B	195	142	6D	3
D400-E				8A	4	D525-G				4A	5	P340	B	121	89	3C	3
D400-F				8A	4	D530-A	A	231	74	6C	5	P341	B	119	89	3C	3
D400-G				2A	4	D530-B				9E	2	P630	B	37	97	7D	6
D410-A	A	126	94	3D	4	D530-C				9D	2	P650	B	35	97	4C	6
D410-B				2A	4	D530-D				5D	2	P651	B	56	124	4B	6
D415-A	A	192	64	4D	4	D530-E				4A	5	P660	B	58	124	8C	6
D415-B				2A	4	D535-A	A	149	113	6C	5	P700	B	32	43	3E	7
D420-A	A	174	64	3C	4	D535-B				10C	5	P730	B	34	43	5E	7
D420-B				3A	4	D535-C				4D	2	R200	A	274	45	6E	2
D425-A	A	174	81	4C	4	D535-D				2B	5	R202	A	170	13	6D	2
D425-B				3A	4	D535-E				2B	5	R204	A	161	15	7D	2
D428-A	A	163	59	5C	4	D535-F				2A	5	R210	A	89	131	1B	2
D428-B				4A	4	D535-G				5A	5	R211	A	252	127	4D	2
D430-A	A	152	46	3E	4	D545-A	A	244	97	9E	5	R212	A	249	127	4C	2
D430-B				2E	4	D545-B				5A	5	R220	A	145	113	4D	2
D430-C				2D	4	D550-A	A	83	113	10E	5	R222	A	255	82	7A	2
D430-D				1C	3	D550-B				10D	5	R230	A	132	43	5D	2
D430-E				4A	4	D550-C				5A	5	R231	A	196	139	4C	2
D435-A	A	152	59	2E	4	D560-A	A	83	95	10C	5	R232	A	199	139	4C	2
D435-B				6E	4	D560-B				10B	5	R235	A	235	133	4B	2
D435-C				5B	4	D560-C				6A	5	R236	A	227	133	4B	2



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		03 15.01.93	EE CONTROLLER	1051.1000.01 XY	2+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R237	A	153	74	6C	2	R425	A	163	70	2B	4	R641	A	54	98	7D	6
R250	A	250	82	8E	2	R426	A	161	70	2B	4	R642	A	44	92	7D	6
R251	A	253	82	8E	2	R427	A	158	70	2B	4	R650	A	22	107	2C	6
R255	A	181	107	11E	2	R430	A	173	54	8A	4	R651	A	29	120	2C	6
R260	A	270	95	9E	2	R450	A	105	124	6E	4	R652	B	32	119	2B	6
R266	A	177	107	11E	2	R451	A	88	105	6E	4	R653	A	36	119	2B	6
R270	A	185	58	10D	2	R452	A	83	98	6E	4	R655	B	19	107	3C	6
R271	A	270	98	9D	2	R453	A	94	110	6B	4	R656	B	29	104	4C	6
R272	A	268	111	9C	2	R460	A	100	116	8D	4	R660	A	53	121	6B	6
R273	A	179	95	7A	2	R461	A	103	116	8C	4	R661	A	50	118	7C	6
R275	A	153	36	11C	2	R462	A	98	116	8D	4	R662	B	60	116	7B	6
R281	A	153	38	11C	2	R463	A	105	113	8C	4	R700	A	54	55	4E	7
R282	A	150	38	11C	2	R470	A	256	46	8D	4	R701	B	44	38	4D	7
R283	A	148	38	11B	2	R471	A	252	35	10D	4	R702	B	60	38	4D	7
R284	A	143	38	11B	2	R502	A	227	46	3B	5	R704	A	38	31	4D	7
R285	A	145	38	11B	2	R510	A	241	77	5C	5	R705	A	27	22	3F	7
R286	A	153	33	11B	2	R511	A	244	93	5E	5	R710	B	48	56	3C	7
R287	A	153	30	11B	2	R515	A	120	114	5E	5	R711	B	38	61	3C	7
R288	A	153	28	11B	2	R516	A	142	110	5F	5	R712	B	15	60	4C	7
R310	A	188	107	8A	3	R517	A	126	111	5E	5	R713	B	13	50	4B	7
R320	A	163	124	3E	3	R518	A	126	118	6E	5	R714	B	48	58	4B	7
R325	A	186	119	4E	3	R519	A	132	121	3B	5	R716	B	23	61	4C	7
R330	A	185	114	5D	3	R520	A	149	64	6E	5	R718	A	46	32	5B	7
R331	A	200	114	6D	3	R522	A	229	67	2B	5	R731	B	53	60	5E	7
R360	A	84	69	7E	3	R525	A	86	89	6D	5	R732	B	69	61	7E	7
R370	A	111	62	11C	3	R535	A	151	124	2B	5	R733	B	69	48	7E	7
R371	A	99	76	11C	3	R540	A	274	81	7D	5	R735	B	69	53	7E	7
R372	A	171	101	8D	3	R541	A	271	81	7D	5	R736	B	69	56	7E	7
R373	A	97	73	8D	3	R542	A	203	100	7C	5	R737	B	69	51	7E	7
R375	B	125	72	8D	3	R560	A	69	90	10B	5	R738	B	69	46	7D	7
R376	B	125	70	8D	3	R561	A	89	81	11C	5	R750-A	B	30	10	2E	7
R377	B	125	67	8D	3	R562	A	89	78	11C	5	R750-B				2E	7
R378	B	125	65	8D	3	R563	A	89	76	11C	5	R750-C				2D	7
R380	A	206	81	10E	3	R564	A	89	73	11C	5	R750-D				2E	7
R381	B	125	62	8D	3	R600	B	52	69	2E	6	R750-E				2D	7
R382	B	125	60	8D	3	R601	B	52	72	2E	6	R754	B	20	25	2D	7
R383	B	125	57	8D	3	R602	B	42	74	2E	6	R755	B	20	30	2D	7
R384	B	125	55	8C	3	R603	B	34	69	3E	6	R756	A	29	30	3E	7
R385	B	125	75	8C	3	R604	B	22	97	2F	6	S210-A	B	237	137	4B	2
R386	B	125	77	8C	3	R605	B	19	72	3F	6	S210-B				4B	2
R387	B	125	80	8C	3	R606	B	14	97	2E	6	S210-C				4B	2
R388	B	125	83	8C	3	R607	B	14	72	3E	6	S210-D				4B	2
R389	A	110	76	9C	3	R608	A	21	73	4E	6	S210-E				4B	2
R390	A	103	76	9C	3	R610	B	52	77	3D	6	S210-F				4B	2
R391	A	107	76	9C	3	R611	B	39	79	3D	6	S210-G				4B	2
R392	A	105	70	9C	3	R620	A	31	94	6D	6	S210-H				4B	2
R393	A	109	70	9C	3	R623	A	32	106	5E	6	S211-A	B	214	137	4B	2
R410	A	118	98	2D	4	R625	A	34	90	5D	6	S211-B				4B	2
R411	A	118	100	2D	4	R630	A	61	109	6E	6	S211-C				4B	2
R412	A	118	103	2C	4	R631	A	61	112	7E	6	S211-D				4B	2
R420	A	173	57	2C	4	R632	A	46	105	8E	6	S211-E				4B	2
R421	A	179	61	2C	4	R633	A	46	112	7F	6	S211-F				4B	2
R422	A	166	69	2C	4	R634	B	54	109	7E	6	S211-G				4A	2
R423	A	166	72	2B	4	R635	B	54	105	7E	6	S211-H				4A	2
R424	A	156	74	2B	4	R640	A	56	91	3A	6	V200	A	272	49	6E	2

ROHDE	AI	Datum	XY-Liste für	Sach-Nummer	Blatt
&		Date	XY-list for	Stock-Nr	Page
SCHWARZ		03.15.01.93	EE CONTROLLER	1051.1000.01 XY	3+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
V201	A	271	29	6E	2	X20B	B	262	115	2C	2	X35	B	271	62	11D	3
V204	A	164	9	7D	2	X20C	B	258	30	2C	2	X36	B	271	60	11D	3
V206	B	168	10	7D	2	X20D	B	258	32	2C	2	X37	B	271	57	11C	3
V208	A	170	16	8D	2	X20E	B	257	121	3C	2	X50A	B	46	137	12E	5
V210	A	88	133	1B	2	X20F	B	257	124	3C	2	X50B	B	46	135	12E	5
V600	B	22	88	3E	6	X21	B	271	55	6E	2	X54	B	271	87	7C	5
V601	B	27	81	3E	6	X22	B	271	31	6E	2	X55	B	271	90	7C	5
V602	B	14	88	3E	6	X23	B	87	141	1B	2	X71A	B	132	11	3F	8
V603	B	19	81	3E	6	X24	B	90	141	2B	2	X71B	B	132	11	3D	8
V604	A	22	97	2E	6	X25	B	271	108	9E	2	X71C	B	132	11	3B	8
V605	A	19	93	3E	6	X26	B	271	105	9D	2	X71D	B	132	11		
V606	A	14	97	2D	6	X27	B	271	103	9C	2	X72A	B	262	11	5F	8
V607	A	17	93	3D	6	X28	B	225	142	5B	2	X72B	B	262	11	5D	8
V620	A	15	72	5D	6	X29	B	271	100	6F	2	X72C	B	262	11	5B	8
V621	A	15	74	5D	6	X30	B	133	141	8D	3	X72D	B	262	11		
V650	B	30	110	2C	6	X32	B	271	70	11D	3	X200	B	93	135	1B	2
V660	A	59	121	7B	6	X33	B	271	67	11D	3	X201	B	126	135	1A	2
X20A	B	265	115	3D	2	X34	B	271	65	11D	3	Z800	B	136	19	9E	8

ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
	03	15.01.93	EE CONTROLLER -	1051.1000.01 XY	4-





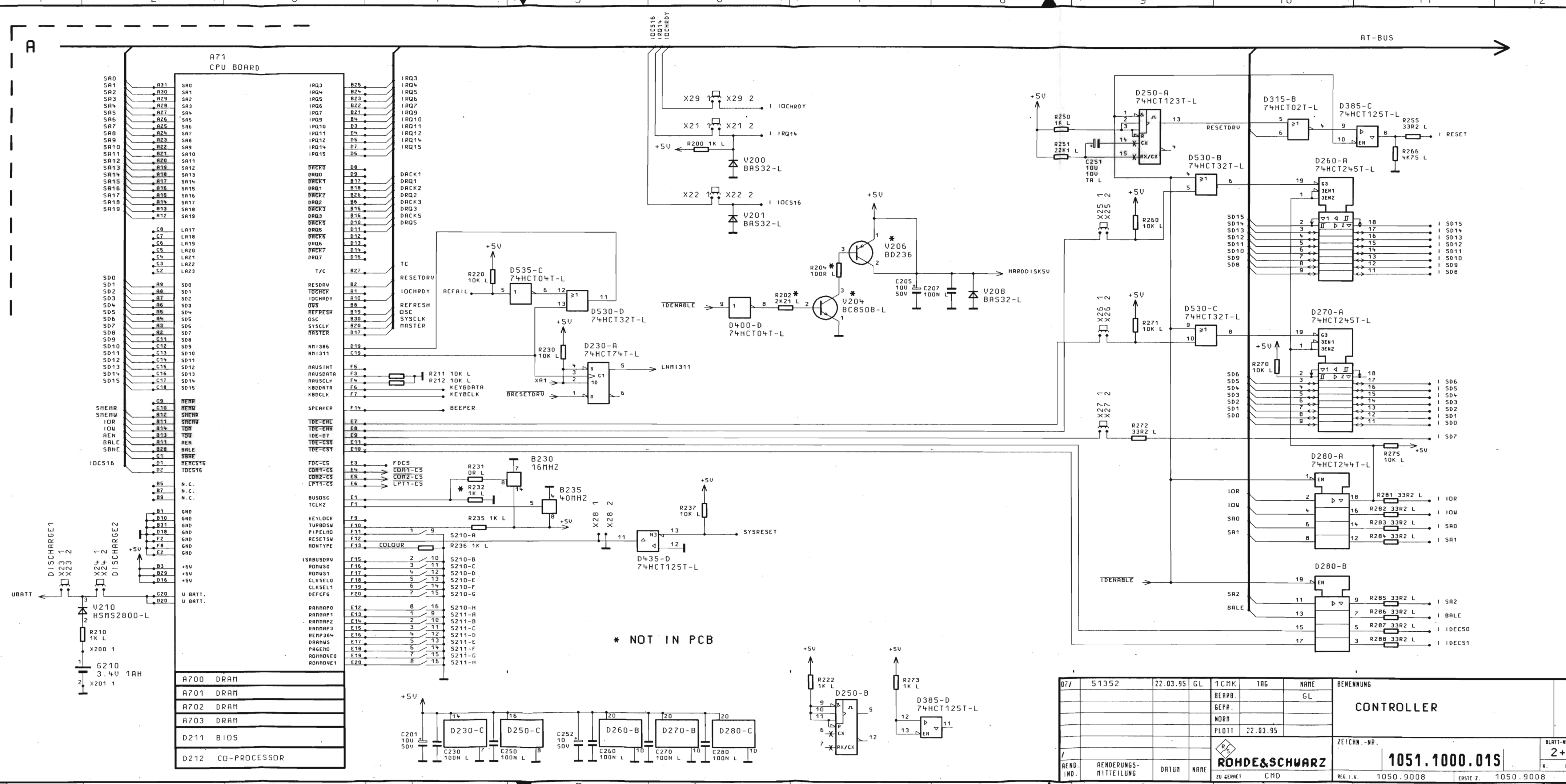
ROHDE & SCHWARZ

Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants



FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.1000.015



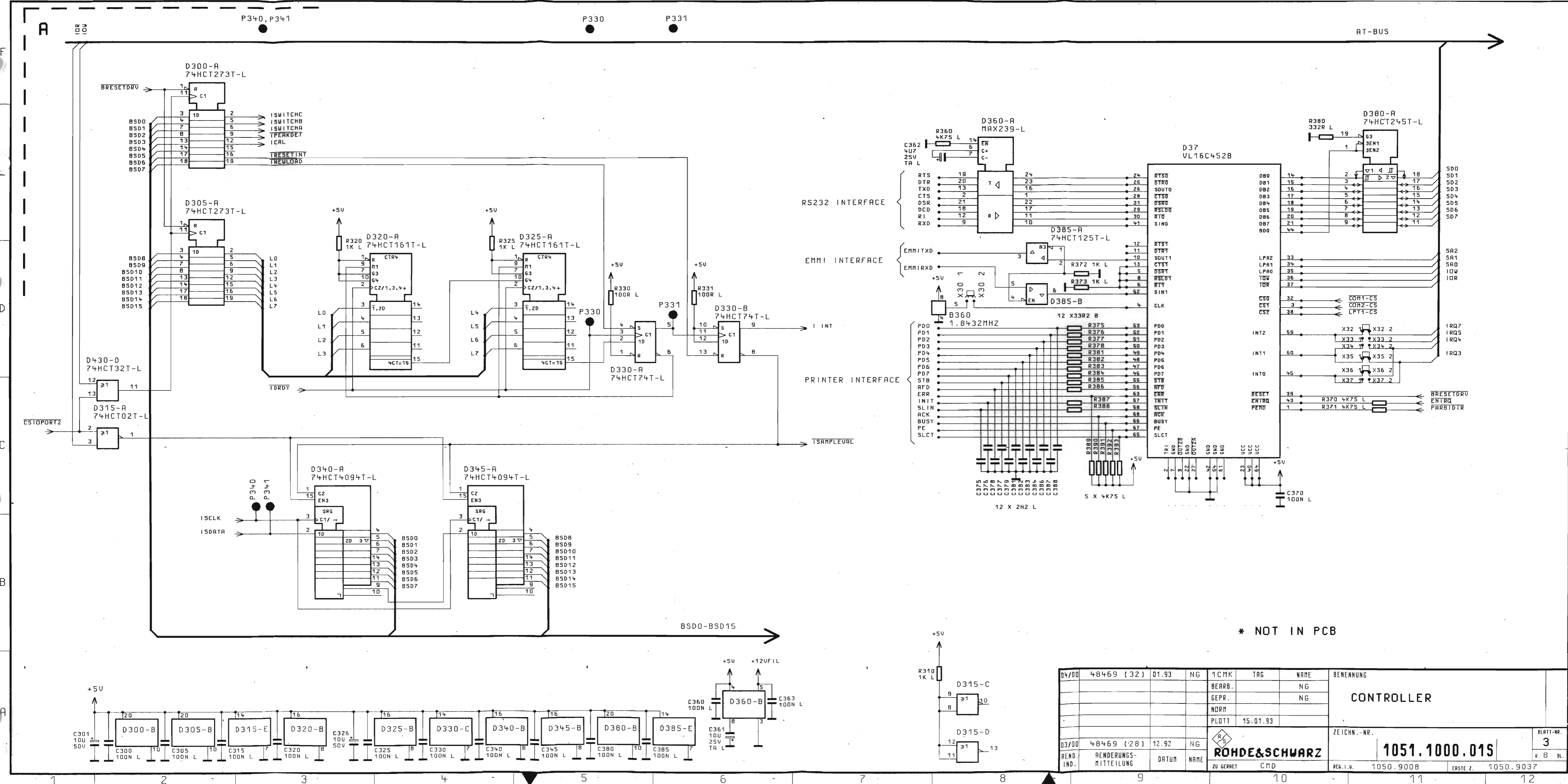
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A701	DRAM
A702	DRAM
A703	DRAM
D211	BIOS
D212	CO-PROCESSOR

* NOT IN PCB

07/	51352	22.03.95	GL	1CMK	TAG	NAME	BENENNUNG
				BEARB.		GL	CONTROLLER
				NDRN			
				PLOTT	22.03.95		
							ZEICHN.-NR.
1051.1000.015							BLATT-NR.
							2+
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME	ZU GERÄT	CMD	REG. I. V.	1050.9008
						ERSTE Z.	1050.9008

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.1000.015

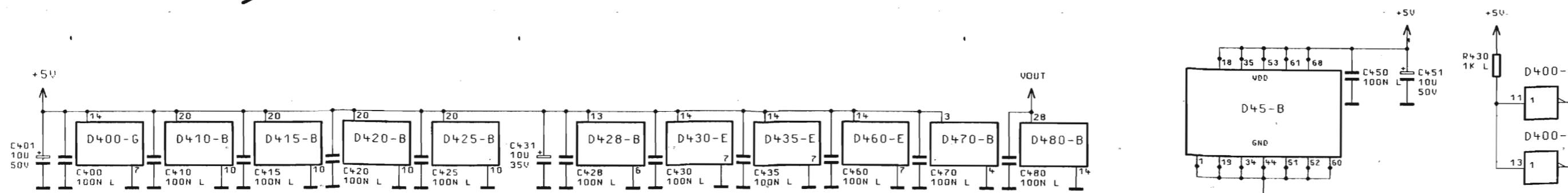
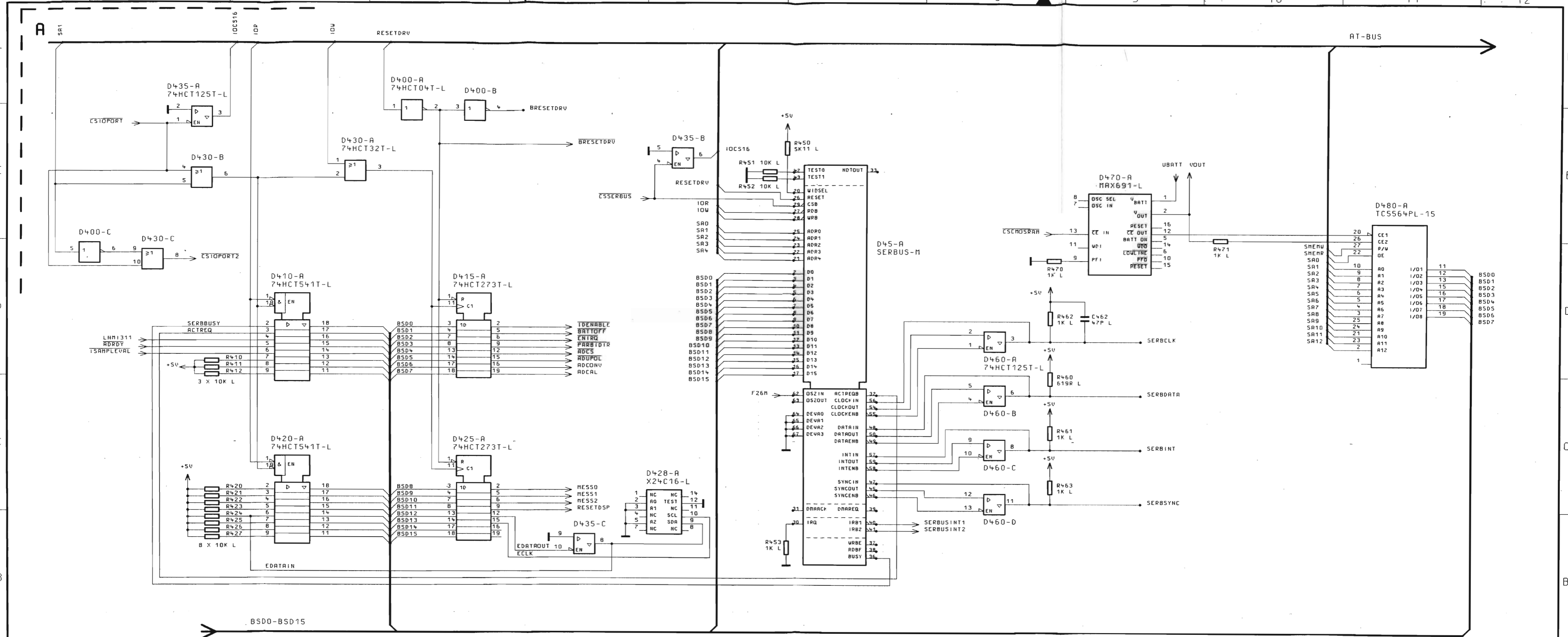


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04/00	48469 (32)	01.93	NG	1CMK	TAG	NAME	BENENNUNG
				BEARB.		NG	CONTROLLER
				GEPR.		NG	
				NORM			
				PLOTT	15-01-93		
03/00	48469 (28)	12.92	NG				ZEICHN.-NR.
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ		1051.1000.015	
				ZU GERRET	CMO	REG.-I.V.	1050.9008
						ERSTE Z.	1050.9037

FUER DIESE UNTERLAGE BEHALTEN WIRD UNS ALLE RECHTE UDW

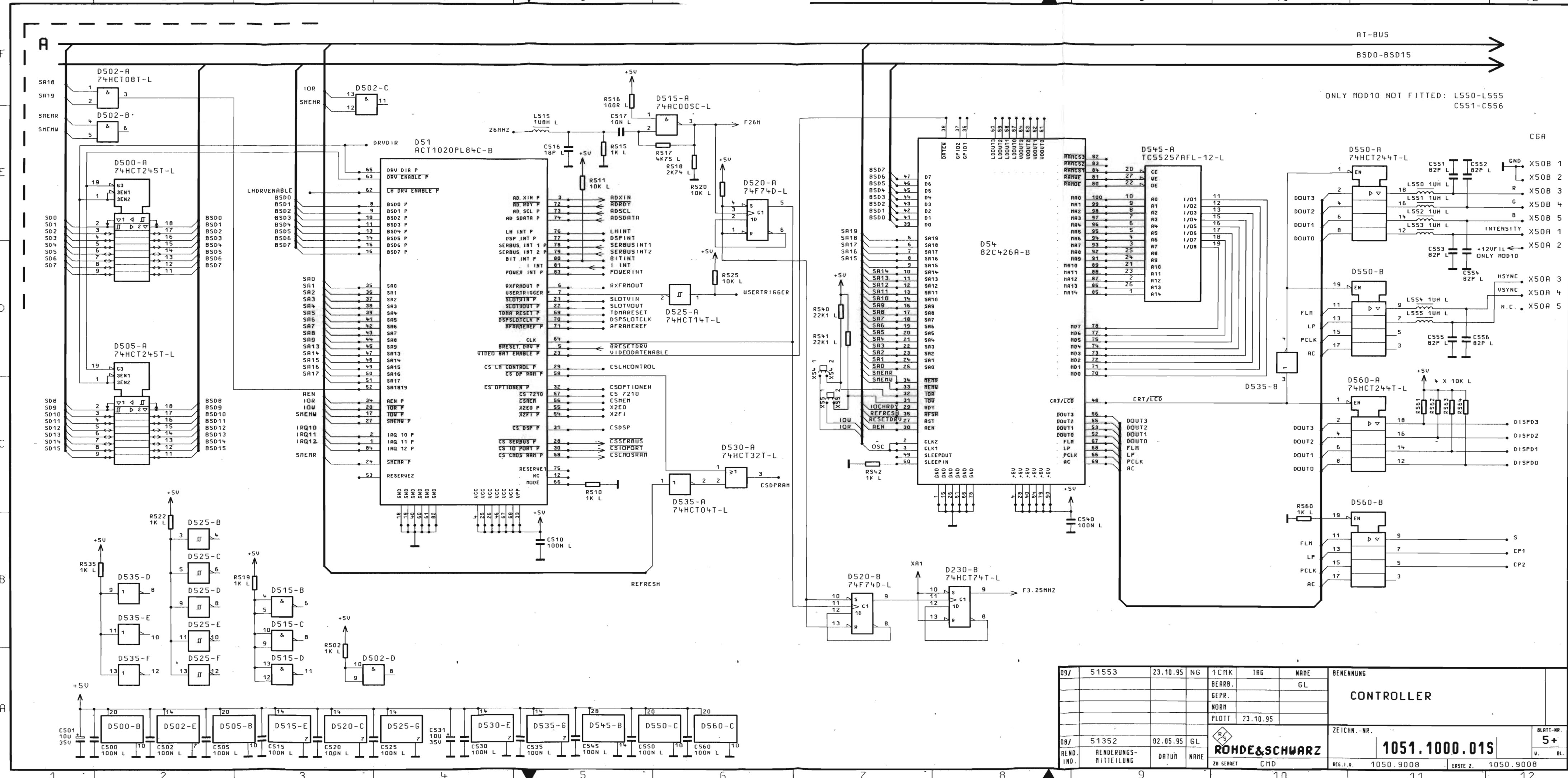
ZICHN.-NR. 1051.1000.015



09/01	17.10.96	GL	1 CMK	TAG	NAME	BENENNUNG	
			BEARB.		GL	CONTROLLER	
			GEPR.				
			NORM				
			PLOTT	17.10.96			
						ZEICHN.-NR.	1051.1000.015
						REG. I. V.	1050.9008
						EPSTE Z.	1050.9008
						REG. I. V.	1050.9008
						EPSTE Z.	1050.9008

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

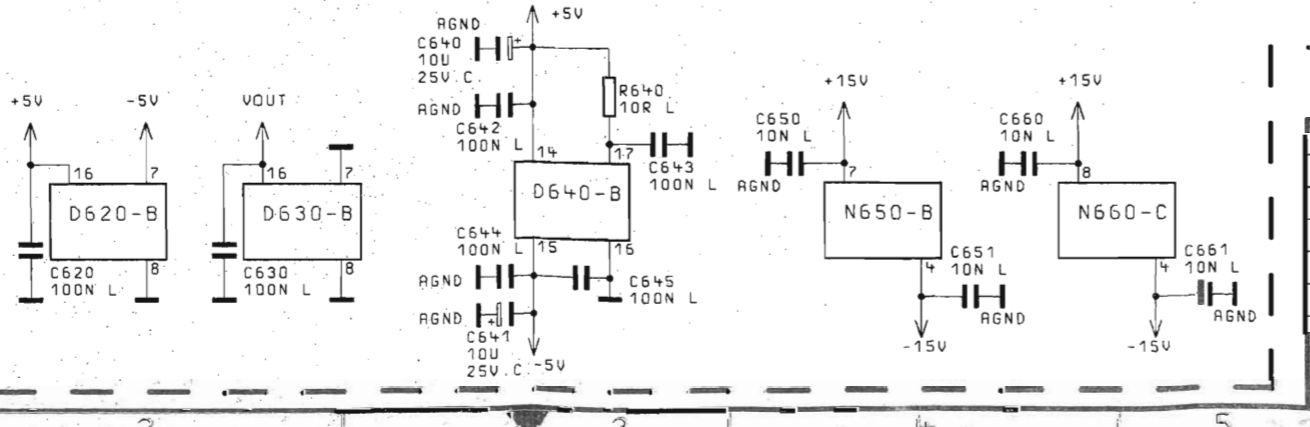
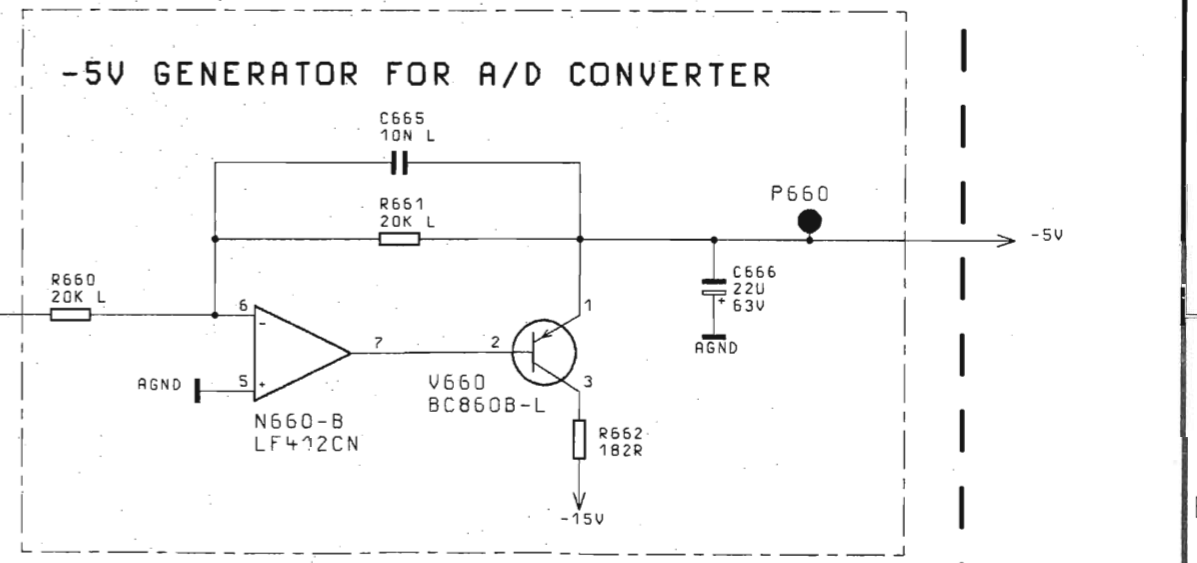
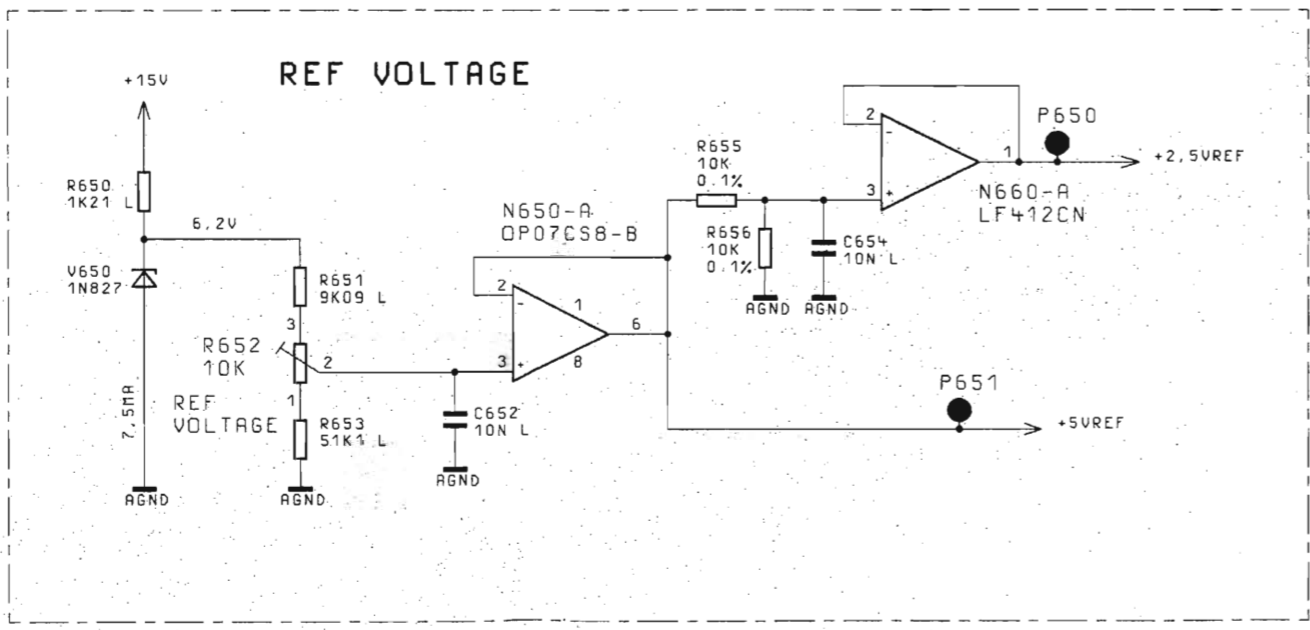
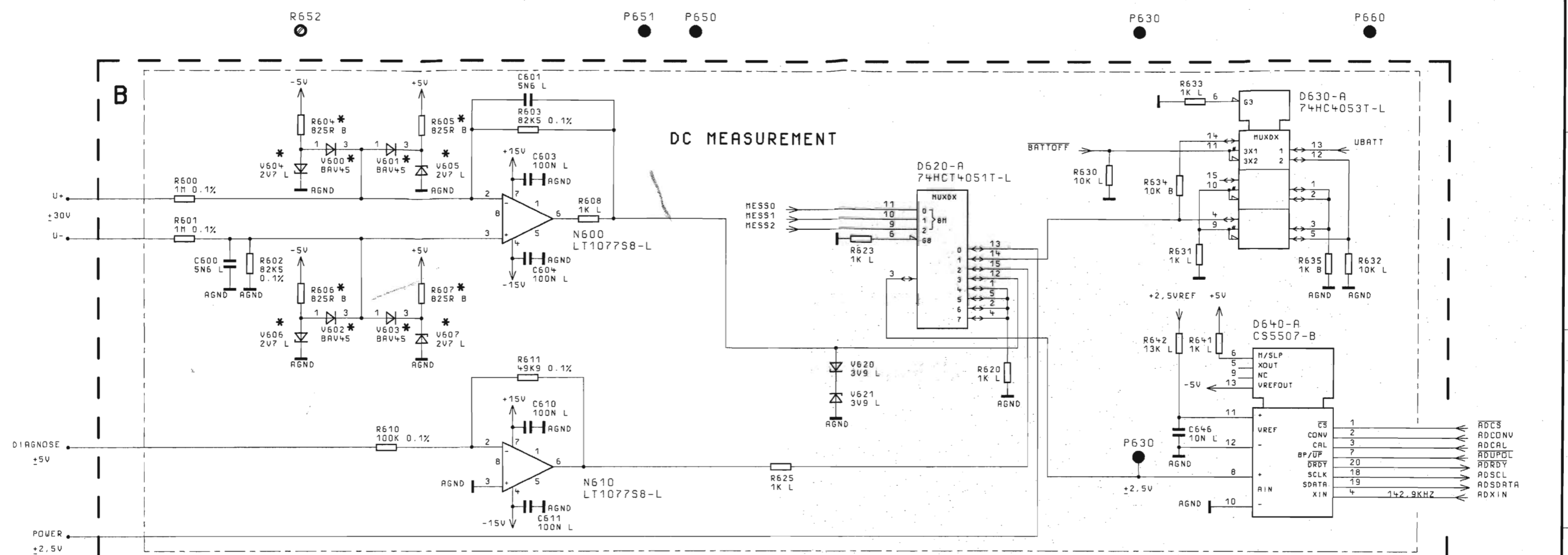
ICHN.-NR. 1051.1000.015



09/	51553	23.10.95	NG	1CMK	TAG	NARE	BENENNUNG
				BEARR.		GL	
				GEPR.			
				NORM			
				PLOTT	23.10.95		
08/	51352	02.05.95	GL				ZEICHN.-NR.
REND.	ÄNDERUNGS-	DATUM	NARE				1051.1000.015
IND.	MITTEILUNG			REG. I.V.	1050.9008	ERSTE Z.	1050.9008
				ZU GEHÖRT	CND		BLATT-NR.
							5+
							V. BL.

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.1000.015

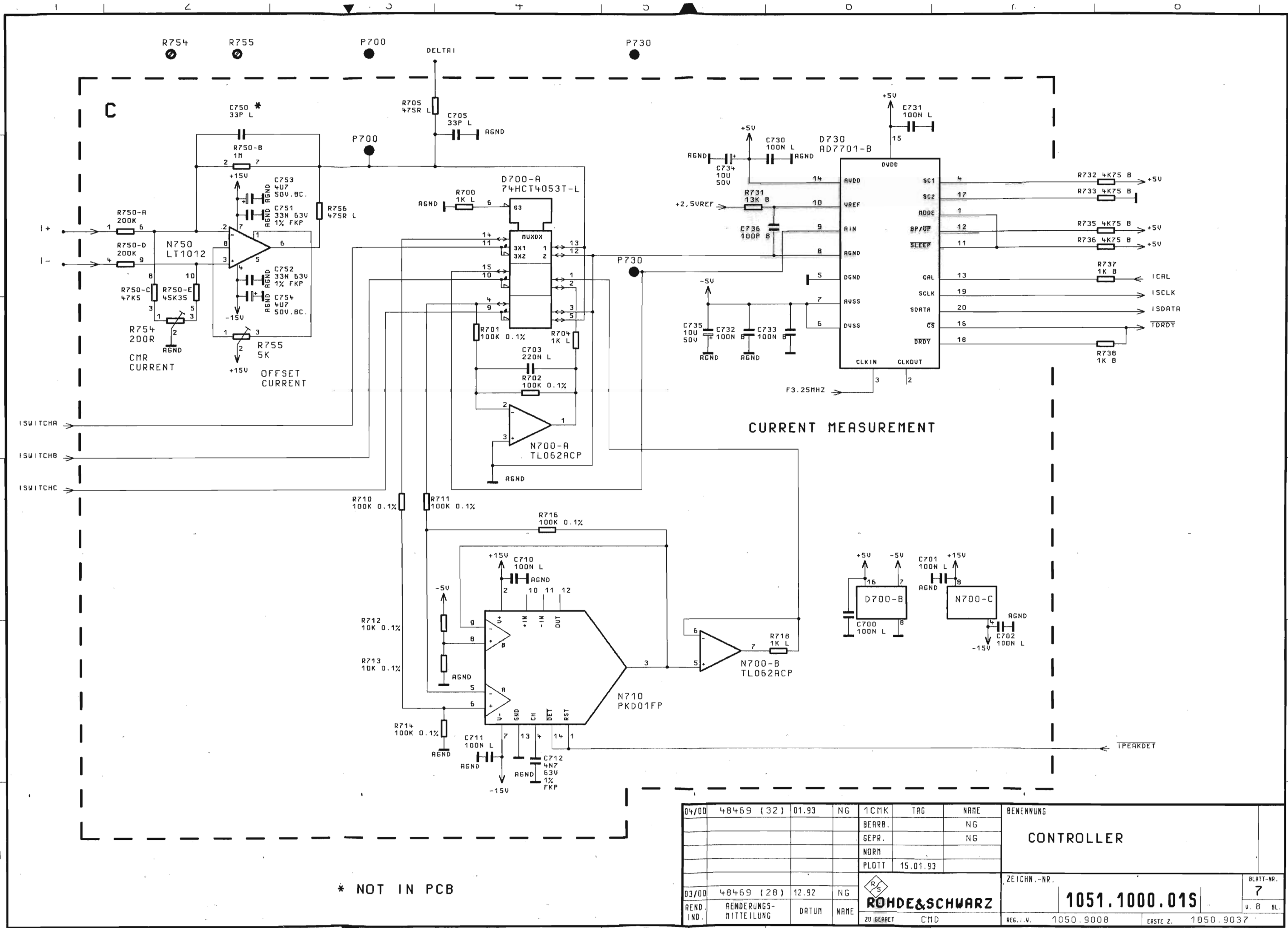


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NO.	REVISION	DATE	STATUS	NAME	DESCRIPTION	DATE	STATUS	NAME	DESCRIPTION
04/00	48469 (32)	01.93	NG	TCMK	TAG				
				BEARRB.					
				GEPR.					
				NORM					
				PLOTT	18.01.93				
03/00	48469 (28)	12.92	NG						
REND. IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAME			ZEICHN.-NR. 1051.1000.015		BLATT-NR. 6	
ZU BEFRET		CMD	REG. I. V.	1050.9008		ERSTZ. 1050.9037			

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.1000.015

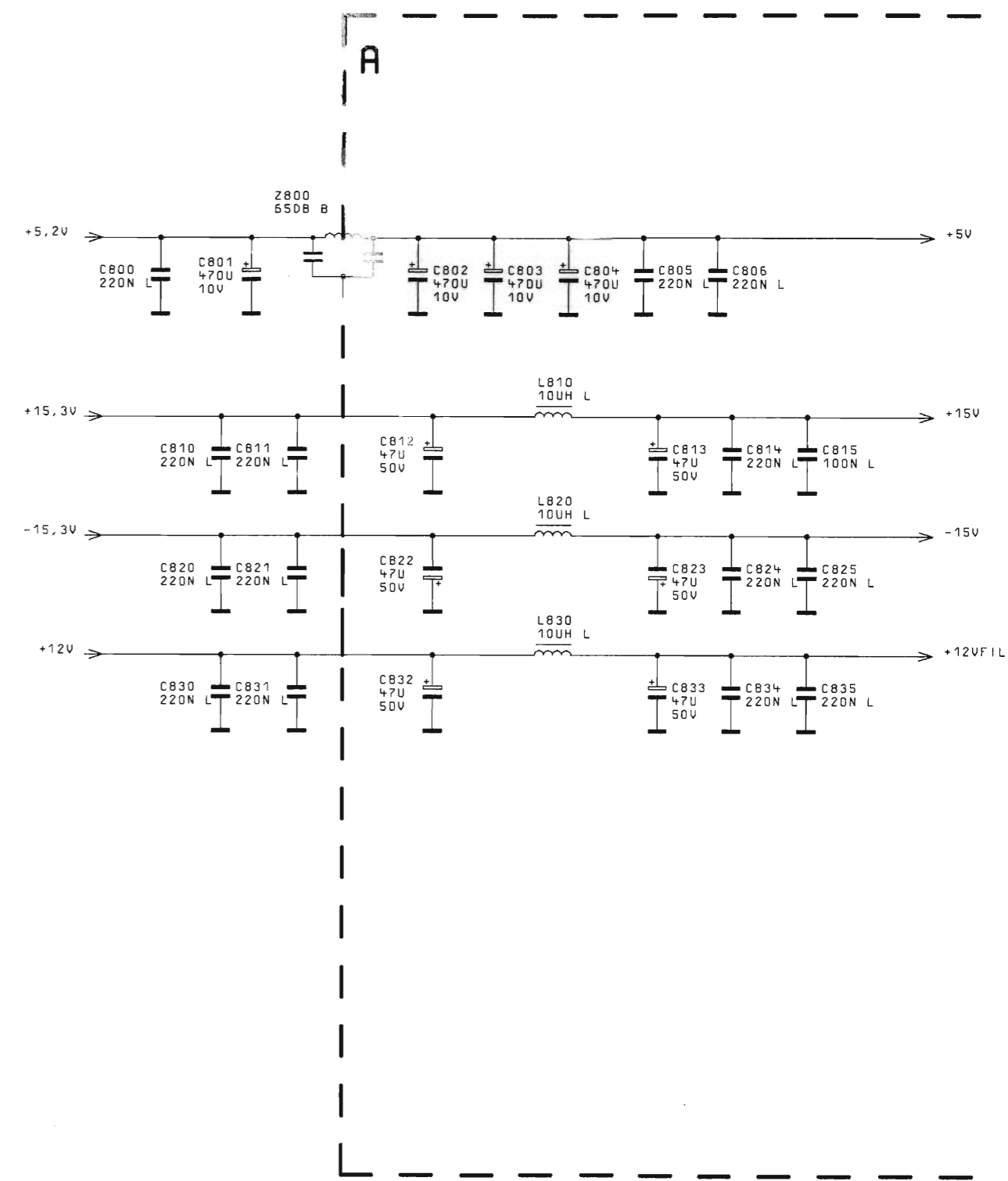


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04/00	48469 (32)	01.93	NG	1CMK	TAG	NAME	BENENNUNG
				BEARB.		NG	CONTROLLER
				GEPR.		NG	
				NORM			
				PLOTT	15.01.93		
03/00	48469 (28)	12.92	NG				ZEICHN.-NR.
							1051.1000.015
REND. IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME				BLATT-NR.
				20 GEPRÄGT CMD			7
				REG. I.V.	1050.9008	ERSTE Z.	1050.9037

CONNECTOR-DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET	COMPONENT/PIN	SIGNAL	ON SHEET
X71A 1	RGND		X72A 1	SYSCLK	
X71A 2	+5VREF		X72A 2	DSC	
X71A 3			X72A 3	SD0	
X71A 4	-15, 3V		X72A 4	SD1	
X71A 5	+15, 3V		X72A 5	SD2	
X71A 6	+5, 2V		X72A 6	SD3	
X71A 7	+5, 2V		X72A 7	SD4	
X71A 8	+12V		X72A 8	SD5	
X71A 9	ACFAIL		X72A 9	SD6	
X71A 10	SYSRESET		X72A 10	SD7	
X71A 11	26MHZ		X72A 11	SD8	
X71A 12	BRESETRV		X72A 12	SD9	
X71A 13	BEEPER		X72A 13	SD10	
X71A 14	S		X72A 14	SD11	
X71A 15	CP1		X72A 15	SD12	
X71A 16	CP2		X72A 16	SD13	
X71A 17	DISPD0		X72A 17	SD14	
X71A 18	DISPD1		X72A 18	SD15	
X71A 19	DISPD2		X72A 19	IOCHRDY	
X71A 20	DISPD3		X72A 20	AEN	
X71A 21	SERBCLK		X72A 21	RESETRV	
X71A 22	SERBDATA		X72A 22	IDU	
X71A 23	SERBINT		X72A 23	IDR	
X71A 24	SERBSYNC		X72A 24	SHEMR	
X71A 25	RTS		X72A 25	SHEW	
X71A 26	DTR		X72A 26	BALE	
X71A 27	TXD		X72A 27	ICCS16	
X71A 28	CTS		X72A 28	TC	
X71A 29	DSR		X72A 29	SBHE	
X71A 30	DCD		X72A 30	REFRESH	
X71A 31	RI		X72A 31	MASTER	
X71A 32	RXD		X72A 32		
X71B 1	I+		X72B 1	SA0	
X71B 2	I-		X72B 2	SA1	
X71B 3	DELTA I		X72B 3	SA2	
X71B 4	U+		X72B 4	SA3	
X71B 5	U-		X72B 5	SA4	
X71B 6	DIAGNOSE		X72B 6	SA5	
X71B 7	POWER		X72B 7	SA6	
X71B 8			X72B 8	SA7	
X71B 9	+5, 2V		X72B 9	SA8	
X71B 10			X72B 10	SA9	
X71B 11			X72B 11	SA10	
X71B 12	POWERINT		X72B 12	SA11	
X71B 13	TMARESET		X72B 13	SA12	
X71B 14	USERTRIGGER		X72B 14	SA13	
X71B 15	RXFROUT		X72B 15	SA14	
X71B 16	AFRAREF		X72B 16	SA15	
X71B 17	DSPSLOTCLK		X72B 17	SA16	
X71B 18	SLOTVIN		X72B 18	SA17	
X71B 19	SLOTVOUT		X72B 19	SA18	
X71B 20	CSOPTIDMEN		X72B 20	SA19	
X71B 21	CSDSP		X72B 21	IRQ3	
X71B 22	DSPINT		X72B 22	IRQ4	
X71B 23	RESETDSP		X72B 23	IRQ5	
X71B 24	BITINT		X72B 24	IRQ6	
X71B 25			X72B 25	IRQ7	
X71B 26	CS 7210		X72B 26	IRQ9	
X71B 27	CSMEM		X72B 27	IRQ10	
X71B 28	X2E0		X72B 28	IRQ11	
X71B 29	X2F1		X72B 29	IRQ12	
X71B 30	KEYBCLK		X72B 30	IRQ14	
X71B 31	KEYBDATA		X72B 31	IRQ15	
X71B 32			X72B 32		
X71C 1	HARDDISK5V		X72C 1	PD0	
X71C 2	FDCS		X72C 2	PD1	
X71C 3	I RESET		X72C 3	PD2	
X71C 4	I SD0		X72C 4	PD3	
X71C 5	I SD1		X72C 5	PD4	
X71C 6	I SD2		X72C 6	PD5	
X71C 7	I SD3		X72C 7	PD6	
X71C 8	I SD4		X72C 8	PD7	
X71C 9	I SD5		X72C 9	STB	
X71C 10	I SD6		X72C 10	AFD	
X71C 11	I SD7		X72C 11	ERR	
X71C 12	I SD8		X72C 12	INIT	
X71C 13	I SD9		X72C 13	SLIN	
X71C 14	I SD10		X72C 14	ACK	
X71C 15	I SD11		X72C 15	BUSY	
X71C 16	I SD12		X72C 16	PE	
X71C 17	I SD13		X72C 17	SLCT	
X71C 18	I SD14		X72C 18	DRQ1	
X71C 19	I SD15		X72C 19	DACK1	
X71C 20	I IDR		X72C 20	DRQ2	
X71C 21	I IDU		X72C 21	DACK2	
X71C 22	I ISD0		X72C 22	DRQ3	
X71C 23	I ISD1		X72C 23	DACK3	
X71C 24	I ISD2		X72C 24	DRQ5	
X71C 25	I ISD3		X72C 25	DACK5	
X71C 26	I IDECS0		X72C 26		
X71C 27	I IDECS1		X72C 27	CSDPRAM	
X71C 28	I IOCHRDY		X72C 28	CSLHCONTROL	
X71C 29	I IRQ14		X72C 29	LHDRVENABLE	
X71C 30	I ICOS16		X72C 30	DRVDIR	
X71C 31	ENHITXD		X72C 31	LHINT	
X71C 32	ENHIRXD		X72C 32		

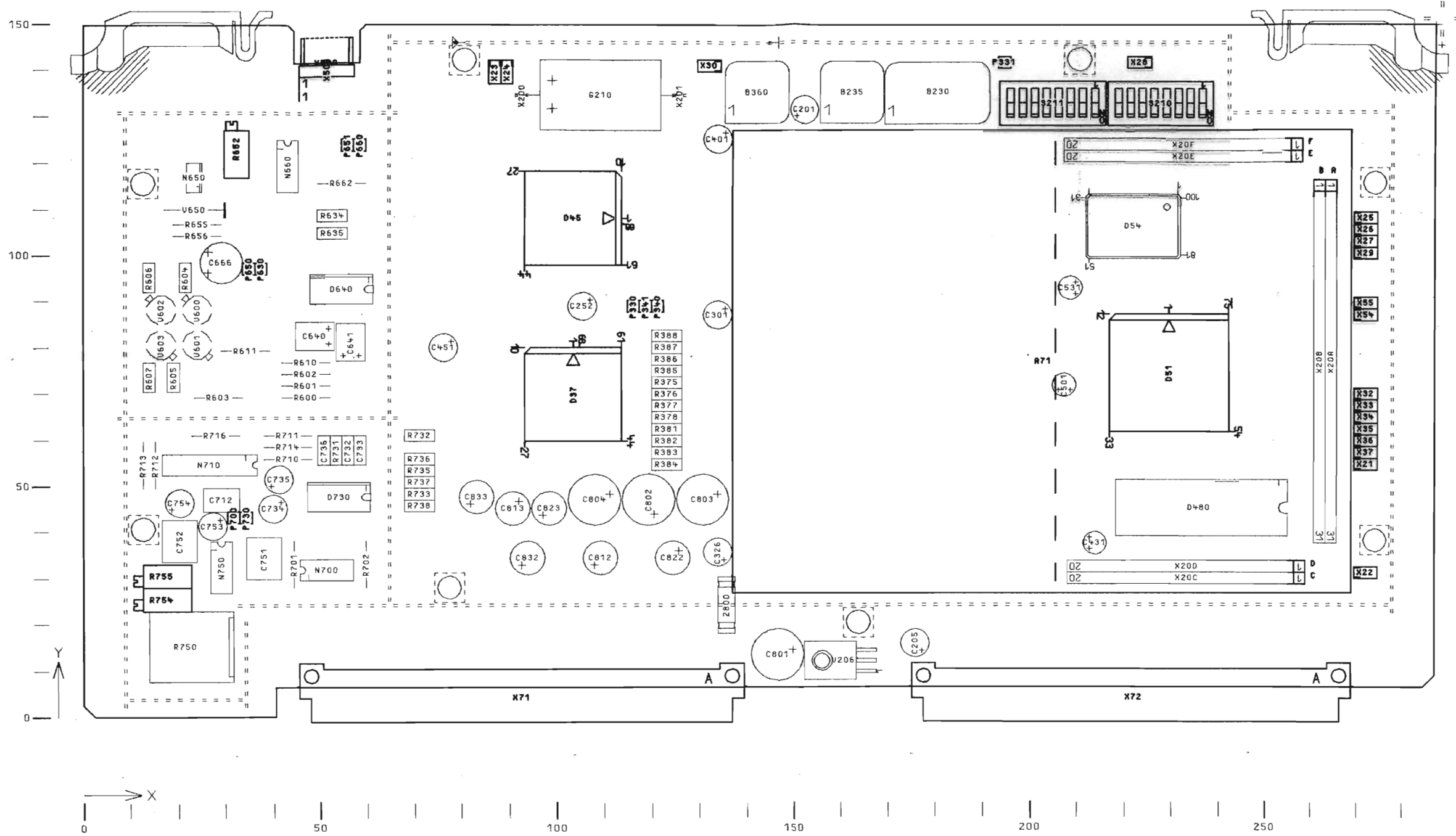


04/00	48469 (32)	01.93	NG	1CMK	TAG	NAME	BENENNUNG	
							CONTROLLER	
03/00	48469 (28)	12.92	NG				1051.1000.015	BLATT-NR. 8
REND. IND.	RENDERUNGS- MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR.	v. 8 BL.
				ZU GERRET	CMD	REG. I. V.	1050.9008	ERSTE Z.
							1050.9037	

FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.1000.015

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE UOP.
 DIESE ZEICHNUNG IST EIN RECHNERDRUCK. RENDRUCKEN KÖNNEN NUR DURCH RENDERN DES DRUCKERSITZES ERFOLGEN



DARSTELLUNG SEITE B
VIEW ON SIDE B.



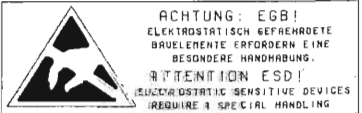
ACHTUNG: ESB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDLUNG.
ATTENTION: ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTUECKTE BAUTEILE SIEHE SR.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

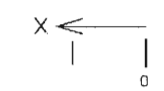
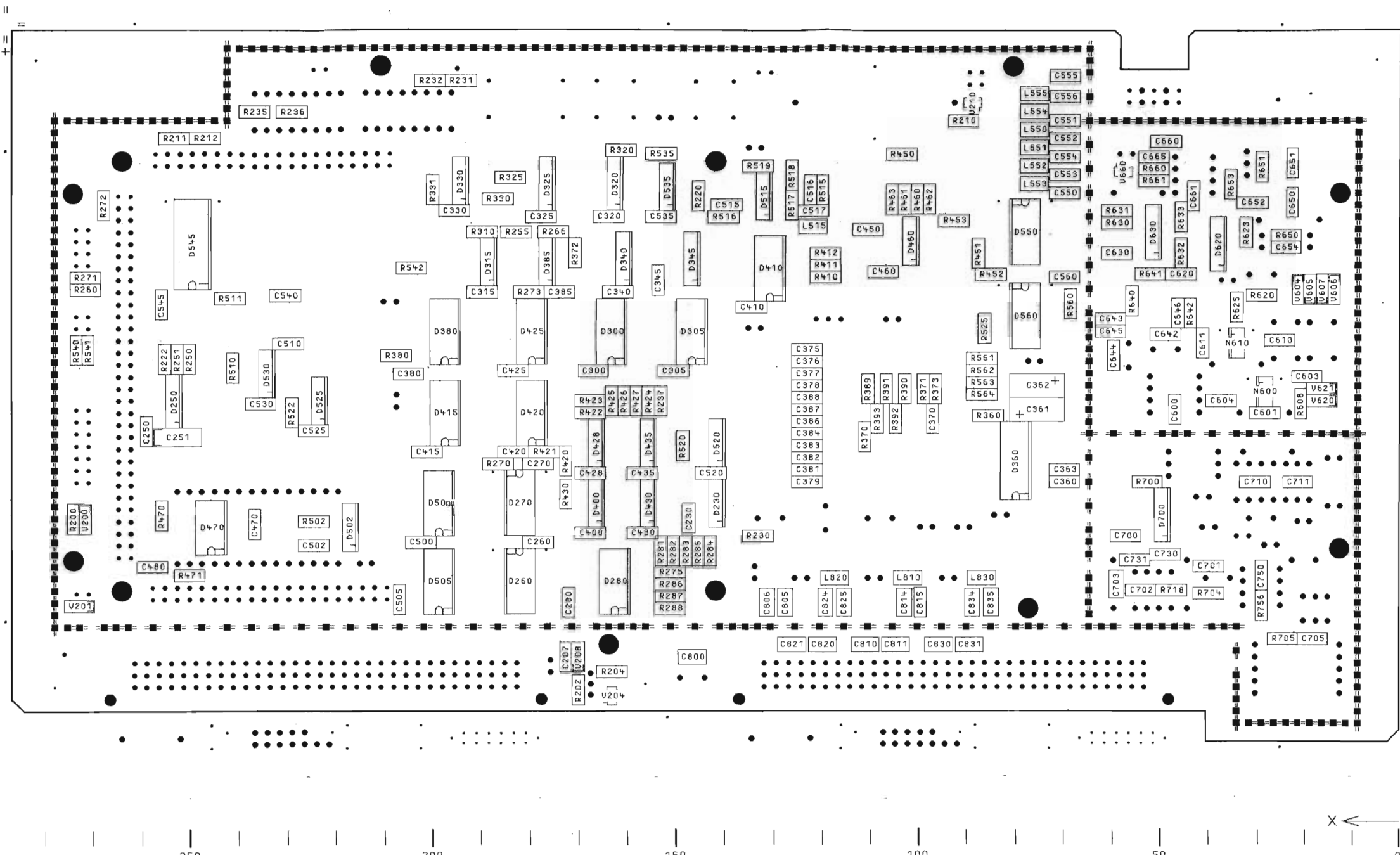
06/	50216	05.94	NG	1CMK	1AG	NAME	BENENNUNG	
				BEARR.		NG	CONTROLLER	Z
				GEPR.				
				NDR				
				PLOTT	03.05.94			
05/	48488 19	05.93	NG				ZEICHN.-NR.	BLATT-NR.
REND.	RENDERUNGS-	DATUM	NARE	ROHDE&SCHWARZ			1051.1000.01	EE 1+
IND.	MITTEILUNG			20	CD		REG. I. V. 1050.9008	ERSTE Z. 1050.9037

FÜR DIESE ZEICHNUNG BEZÜGLICHEN WIRD UNS ALLE BECHTE UND
 DIESE ZEICHNUNG IST EIN RECHNERDRUCK, BEWERTUNGEN KÖNNEN NUR DURCH VERÄNDEREN DES DRUCKSITZES ERFOLGEN

DARSTELLUNG SEITE A
VIEW ON SIDE A



BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTÜCKTE, BAUTEILE SIEHE SA.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.



05/	50216	05.94	NG	1CMK	TAG	NARE	BENENNUNG	
				BEARB.		NG	CONTROLLER	Z
				GEPR.				
				NORM				
				PLOTT	03.05.94			
05/	48488 19	05.94	NG				ZEICHN.-NR.	BLATT-NR.
REND.	RENDERUNGS-	DATUM	NARE				1051.1000.01	EE
IND.	MITTEILUNG							2+
				ROHDE&SCHWARZ				
				ZU SEHRT	CMD			
						1050.9008	1050.9037	



ROHDE & SCHWARZ

SERVICE DOCUMENTS
Front Panel Boards 1 and 2

1051.0004.02

1051.0104.02



7 Service Instructions for Front Panel Boards 1 and 2

(Cf. circuit diagrams 1051.0004 S, 1051.0104 S, 1050.9395 S and 1050.9872 S)

These two successively mounted boards incorporate the rotary pulse encoder, the "PERIF" gate array for spinwheel and key decoding, the loudspeaker amplifier, a beeper, control of the contrast voltage for the LC display, brightness control of the LC display and the switch-on logic.





ROHDE & SCHWARZ


Schaltteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
B1	EM DREHIMPULSGEBER ROTARY MAGNET	EM 0336.3348.00			
B2	BS UGN3120U HALL-EFF.SW. HALL-EFF.SWITCH	BJ 0336.4750.00	ALLEGRO	UGN3120U	
B3	BS UGN3120U HALL-EFF.SW. HALL-EFF.SWITCH	BJ 0336.4750.00	ALLEGRO	UGN3120U	
B5	EL TONGEBER 6V 40MIA WARNING DEVICE 6V	0836.8538.00	DIGISOUND	F/SWX-06	
C220	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C221	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C237	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
N205	BO LM337T -ADJ1A5 VREGL VOLTAGE REGULATOR	BO 0339.4180.00	NSC	LM337T	
R60	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	D25	
R61	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	D25	
R62	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R63	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	ROEDERSTEI	D25	
R70	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R72	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R73	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R230	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	D25	
R231	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R232	RG 4,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5814.00	ROEDERSTEI	D25	
R235	RK K164 HEISSL.470R 10% THERMISTOR	0010.6918.00	SIEMENS	B57164-K471-K	
R236	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
S1	SB TASTER 1XA OHNE KNOPF PUSH BUTTON SWITCH	0834.9020.00	SIEMENS	V42263-D11-K9	
V60	AF HLMP4740 LED5 GN569N LED	AF 0007.5266.00	HEWLETT_PA	HLMP4740	
V61	AF HLMP4719 LED5 GE585N LED	AF 0099.9163.00	QUALITY	HLMP-4719(7434D .31)	
V65	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
X8	FM BUCHSENLEISTE 9P.WRAP CONNECTOR	FM 0614.3760.00	FCT	F09S4G1	
X401 . .418	FP BUCHSE F.O,64-O,89 SOCKET	FP 0350.2574.00	AUGAT	322 HCS8P2-100	

095.0026-0693

1CMK	510 3PU-D	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	ROHDE & SCHWARZ	06	16.02.98	ED FRONTANEL BOARD I	1051.0004.01 SA	1-



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in	
C1	CE 22UF+-20%16V5RDX5RAD.A ELECTROLYTIC CAPACITOR	0358.6062.00	NAT_PANASO	ECE A 1C KS 220 B		
C2	CE 22UF+-20%16V5RDX5RAD.A ELECTROLYTIC CAPACITOR	0358.6062.00	NAT_PANASO	ECE A 1C KS 220 B		
C3	CE 100UF+-20%25V RD8X9,5 ELECTROLYTIC CAPACITOR	0803.0580.00	MATSUSHITA	ECE-A1ESS-101		
C4	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
.7						
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C15	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C101	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C102	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C103	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C112	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C113	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C201	CE 47UF+-20%16V ALU-CHIP SMD-ELECTROLYTIC CAPACIT.	CE 0008.1835.00	VALVO	2222 139 65479		
C202	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C203	CE 220UF+-20%16V RM5 ELECTROLYTIC CAPACITOR	0008.7562.00	FROLYT	EKS00CC322D		
C206	CE 220UF+-20%16V RM5 ELECTROLYTIC CAPACITOR	0008.7562.00	FROLYT	EKS00CC322D		
C207	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C210	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C211	CE 100UF+-20%25V RD8X9,5 ELECTROLYTIC CAPACITOR	0803.0580.00	MATSUSHITA	ECE-A1ESS-101		
C212	CE 100UF+-20%25V RD8X9,5 ELECTROLYTIC CAPACITOR	0803.0580.00	MATSUSHITA	ECE-A1ESS-101		
C213	CE 47UF+-20%16V ALU-CHIP SMD-ELECTROLYTIC CAPACIT.	CE 0008.1835.00	VALVO	2222 139 65479		
C225	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C226	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
D1	BG TH3086.1I PERIF2 ASIC IC ASIC KEYBOARD INTERF.	1066.1953.00	THESYS	TH3086.1I		
D101	BL PC74HCT14T 6XINV.SCHM INV. SCHMITT-TRIGGER	BL 0007.6204.00	PHILIPS_SE	(PC)74HCT14(D/T)		
D102	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)		
D103	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)		
D104	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)		
D105	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)		
D201	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)		
L1	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100		
L2	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100		
L3	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100		
L201	LD 100UH 20% 1A 0,6500HM CHOKE	LD 0155.9446.00	SIEMENS	B82111-E-C25		
N200	BO LM317T +ADJ1A5 VREGL VOLTAGE REGULATOR	BO 0339.4080.00	NSC	LM-317T		
N201	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR		
R1	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02		
R3	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02		
MENP 1	510 3PU-D	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
		12	16.02.98	ED FRONT PANEL BOARD II	1051.0104.01 SA	1+

095.0026-0693



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R4	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R5 ..8	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R9	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R11 ..14	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R15	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R16	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R17	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R18 ..21	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R22	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R23	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R24	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R25	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R26	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R28	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R31	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R33	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R40	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R41	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R42	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R85 ..105	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R110	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R115 ..120	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R201	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R202	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	ROEDERSTEI	D25	
R203	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R204	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R205	RG 1,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9997.00	ROEDERSTEI	D25	
R206	RG 243 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5620.00	ROEDERSTEI	D25	
R210	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	D25	
R211	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R212	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R213	RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0735.00	ROEDERSTEI	D25	
R214 ..218	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R220	RG 100,0KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R221	RG 82,5KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1925.00	ROEDERSTEI	D25	
R222	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R223	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R224	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R225	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	

MENP1

510 3PU-D A1

Datum
Date

12 16.02.98

Schaltteilliste für
Parts list for

ED FRONT PANEL BOARD II

Sachnummer
Stock No.

1051.0104.01 SA

Blatt-Nr.
Page


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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in	
R226	RL 0,60W 10,0 OHM+-1%TK50 RESISTOR	RL 0082.8852.00	RESISTA	MK2		
V1	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B		
V201	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B		
V202	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B		
V210 . .213	AE BZV55/C4V7 0.5W ZDI ZENER DIODE	AE 0006.9822.00	PHILIPS	BZV55B4V7		
V220	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B		
V221	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B		
X2	FP LEITERPLATTENVERB.18P CONNECTOR 18P.	1051.4368.00	DUPONT CON	68101-018		
X3	FP LEITERPLATTENVERB.10P. CONNECTOR 10POL.	1051.4397.00	MOLEX	5597-10APB		
X5	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR 3-POLIG/3 PINS	FP 0242.3600.00	BINDER	742-11-0179-00-36		
X6	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747		
X7	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747		
X401 . .418	FP STIFTLAISTE 36P.R2,54 PIN CONNECTOR 2X9-POL.	FP 0279.1669.00	BINDER	11-0201-00-36		
MENP1	510 3PU-D	Äi	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	ROHDE & SCHWARZ	12	16.02.98	ED FRONT PANEL BOARD II	1051.0104.01 SA	3-

095.0026-0693



XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

- Part:** Bauelement-Kennzeichen.
- Side:** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- X/Y:** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG:** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part:** Identification of instrument part.
- Side:** Side of the PC board on which instrument part is positioned.
- X/Y:** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG:** Square and page of the diagram for the respective instrument part.



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
B1	B	34	42	5E	1	V60	B	60	129	7E	1	X8	B	70	92	4E	1
S1	B	75	123	7D	1	V61	B	60	116	7D	1						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
B2	B	53	33	5F	1	R61	A	55	115	7D	1	X404	A	34	81	2E	1
B3	B	48	26	5D	1	R62	A	55	121	7E	1	X405	A	34	83	2E	1
B5	B	22	84	7E	1	R63	A	62	121	7E	1	X406	A	34	86	2E	1
C220	A	55	97	5C	1	R70	A	72	113	7D	1	X407	A	34	88	2E	1
C221	B	61	105	5C	1	R72	A	59	30	5F	1	X408	A	34	91	2E	1
C230	A	76	93	3F	1	R73	A	59	24	5E	1	X409	A	34	93	2E	1
C231	A	67	93	3E	1	R230	A	60	100	5C	1	X410	A	32	93	2E	1
C232	A	63	77	3E	1	R231	A	46	93	5C	1	X411	A	32	91	2D	1
C233	A	76	79	3E	1	R232	A	27	94	5B	1	X412	A	32	88	2D	1
C234	A	76	91	3E	1	R235	B	47	90	5C	1	X413	A	32	86	2D	1
C235	A	76	88	3E	1	R236	A	39	78	3E	1	X414	A	32	83	2D	1
C236	A	76	85	3E	1	V65	A	59	125	7E	1	X415	A	32	81	2D	1
C237	B	55	105	4C	1	X401	A	34	73	2E	1	X416	A	32	78	2D	1
N205	B	60	93	5C	1	X402	A	34	76	2E	1	X417	A	32	76	2D	1
R60	A	55	128	7E	1	X403	A	34	78	2E	1	X418	A	32	73	2D	1

ROHDE	AI	Datum	XY-Liste für	Sach-Nummer	Blatt
&		Date	XY-list for	Stock-Nr	Page
SCHWARZ			ED FRONT_PANEL_BOARD_I	1051.0004.01 XY	1-
	06	20.02.97			



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D1A	B	13	84	5A	1	X3	B	39	3	3F	1	X7	B	67	3	5E	2
X1	B	23	8	1F	1	X5	B	57	58	6C	2						
X2	B	72	51	4E	1	X6	B	62	3	5E	2						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	B	27	48	2E	1	D105-A	A	12	126	9E	1	R87	A	79	43	5E	1
C2	B	29	57	2E	1	D105-B				4A	1	R88	A	79	41	5E	1
C3	B	32	38	2D	1	D201-A	A	36	38	2C	2	R89	A	79	38	5E	1
C4	B	37	63	5A	1	D201-B				2A	2	R90	A	79	36	5E	1
C5	B	43	82	5A	1	L1	A	27	41	2E	1	R91	A	69	25	5E	1
C6	B	22	104	5A	1	L2	A	27	50	2E	1	R92	A	3	74	5D	1
C7	A	3	93	5A	1	L3	A	27	35	2D	1	R93	A	79	26	5D	1
C10	B	20	104	3A	1	L201	B	68	43	4E	2	R94	A	79	23	5D	1
C15	B	18	127	4A	1	N200	B	46	36	2E	2	R95	A	79	21	5D	1
C19	A	46	97	5B	1	N201-A	A	33	27	5C	2	R96	A	79	18	5D	1
C101	B	50	97	10C	1	N201-B				4B	2	R97	A	79	15	5D	1
C102	B	51	84	10C	1	N201-C				4A	2	R98	A	79	12	5D	1
C103	B	7	115	3A	1	R1	B	28	119	2A	1	R99	A	79	10	5D	1
C109	B	51	91	11D	1	R3	A	39	82	5C	1	R100	A	22	82	5D	1
C112	B	8	104	3A	1	R4	A	7	91	6E	1	R101	A	24	82	5D	1
C113	B	23	114	4A	1	R5	A	22	92	6D	1	R102	A	27	82	5C	1
C201	B	36	45	2E	2	R6	A	25	92	6C	1	R103	A	29	81	5C	1
C202	A	44	30	2E	2	R7	A	30	91	6C	1	R104	A	32	81	5C	1
C203	B	63	43	3E	2	R8	A	27	92	6C	1	R105	A	34	81	5C	1
C206	B	60	10	4E	2	R9	A	3	98	8C	1	R110	A	8	114	9B	1
C207	B	39	38	2A	2	R11	A	26	98	6C	1	R115	A	3	128	10E	1
C210	A	26	30	5C	2	R12	A	35	98	6C	1	R116	A	5	135	10E	1
C211	B	53	37	6D	2	R13	A	39	94	6C	1	R117	A	28	121	10E	1
C212	B	53	46	6B	2	R14	A	39	91	6B	1	R118	A	28	123	10E	1
C213	B	44	45	6C	2	R15	A	40	86	6B	1	R119	A	28	126	10E	1
C225	A	41	24	4A	2	R16	A	17	92	6D	1	R120	A	28	128	10E	1
C226	A	33	33	4A	2	R17	A	20	91	6D	1	R201	A	51	15	2D	2
D101-A	B	18	114	5B	1	R18	A	22	100	7E	1	R202	A	51	27	2E	2
D101-B				6B	1	R19	A	36	89	5B	1	R203	A	55	15	2D	2
D101-C				2B	1	R20	A	3	108	7B	1	R204	A	54	30	2D	2
D101-D				2A	1	R21	A	27	113	8D	1	R205	A	51	29	3E	2
D101-E				2A	1	R22	A	32	91	6C	1	R206	A	47	32	3E	2
D101-F				2A	1	R23	A	46	99	5B	1	R210	A	30	53	3A	2
D101-G				3A	1	R24	A	5	121	8B	1	R211	A	33	47	3A	2
D102-A	A	5	104	8B	1	R25	A	8	118	9B	1	R212	A	33	41	2C	2
D102-B				8A	1	R26	A	28	118	9E	1	R213	A	45	46	3C	2
D102-C				3A	1	R28	A	25	131	10E	1	R214	A	45	43	3C	2
D103-A	A	17	104	5C	1	R31	A	7	126	10F	1	R215	A	45	41	3C	2
D103-B				5B	1	R33	A	7	123	10F	1	R216	A	36	53	3B	2
D103-C				9D	1	R40	A	33	68	4C	1	R217	A	30	45	3B	2
D103-D				7E	1	R41	A	3	83	4B	1	R218	A	42	30	4B	2
D103-E				3A	1	R42	A	17	98	6D	1	R220	A	30	28	5C	2
D104-A	A	12	114	8B	1	R85	A	79	48	5E	1	R221	A	33	24	5C	2
D104-B				4A	1	R86	A	79	46	5E	1	R222	A	30	25	5C	2

ROHDE	ÄI	Datum	XY-Liste für	Sach-Nummer	Blatt
&		Date	XY-list for	Stock-Nr	Page
SCHWARZ		06 20.02.97	ED FRONT_PANEL_BOARD_II FRONT_PANEL_BOARD_II	1051.0104.01 XY	1+

21
23



Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R223	A	37	15	6D	2	V220	A	33	15	6C	2	X410	B	48	93	11C	1
R224	A	33	36	6B	2	V221	A	30	15	6B	2	X411	B	48	91	11C	1
R225	A	27	22	6C	2	X401	B	46	73	11D	1	X412	B	48	88	11C	1
R226	B	27	25	6C	2	X402	B	46	76	11D	1	X413	B	48	86	11C	1
V1	A	5	100	7C	1	X403	B	46	78	11D	1	X414	B	48	83	11C	1
V201	A	50	23	2D	2	X404	B	46	81	11D	1	X415	B	48	81	11C	1
V202	A	53	22	2D	2	X405	B	46	83	11D	1	X416	B	48	78	11B	1
V210	A	45	38	3B	2	X406	B	46	86	11C	1	X417	B	48	76	11B	1
V211	A	55	34	3B	2	X407	B	46	88	11C	1	X418	B	48	73	11B	1
V212	A	37	58	3B	2	X408	B	46	91	11C	1						
V213	A	34	56	3B	2	X409	B	46	93	11C	1						

ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
	06	20.02.97	ED FRONT_PANEL_BOARD_II FRONT_PANEL_BOARD_II	1051.0104.01 XY	2-





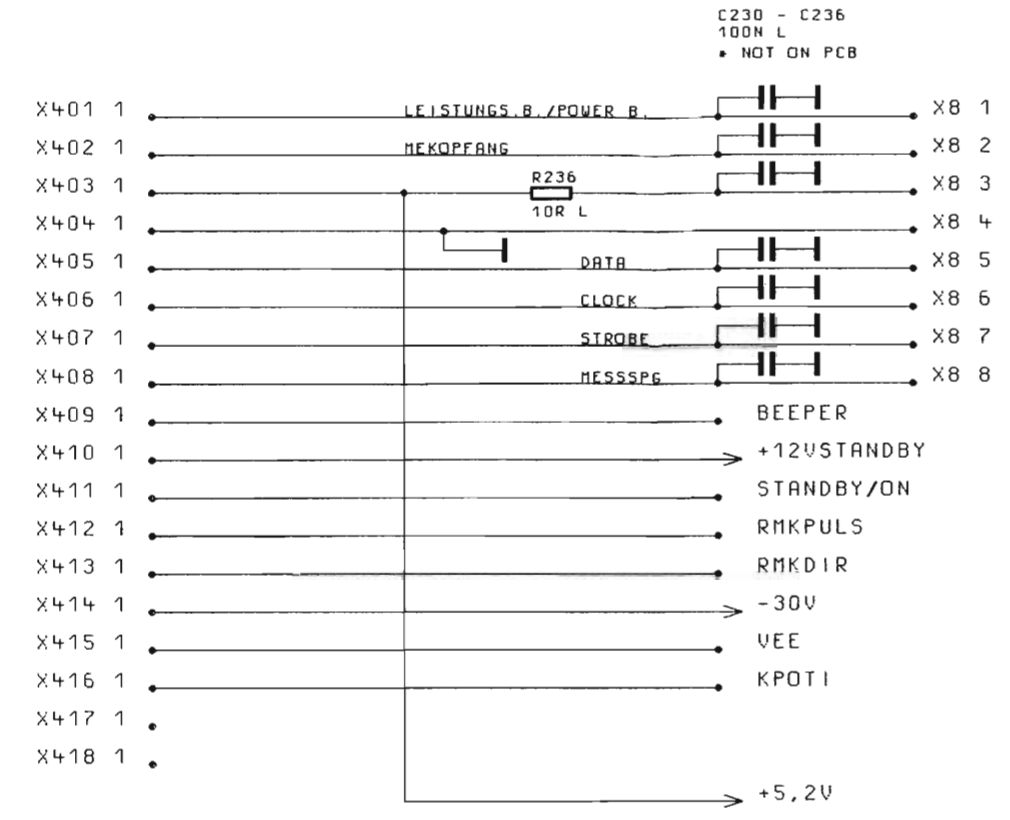
Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants



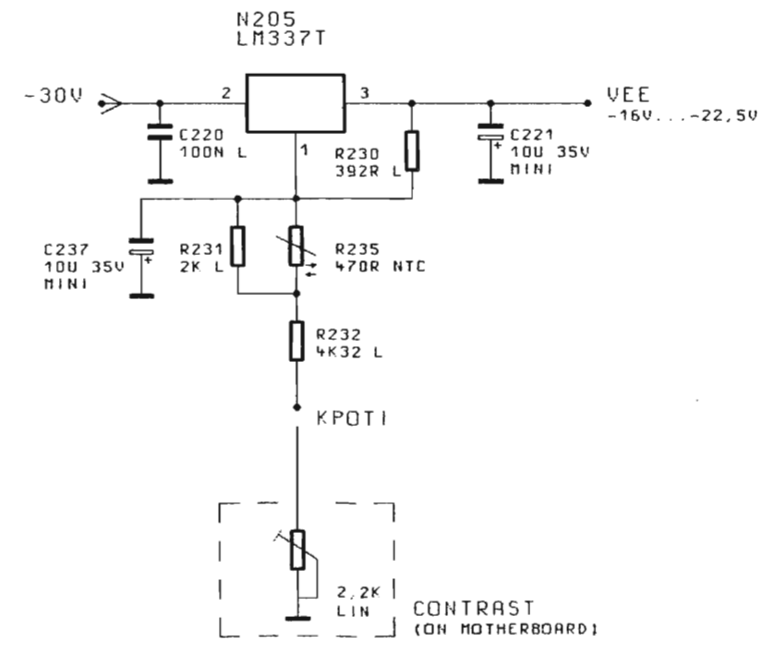
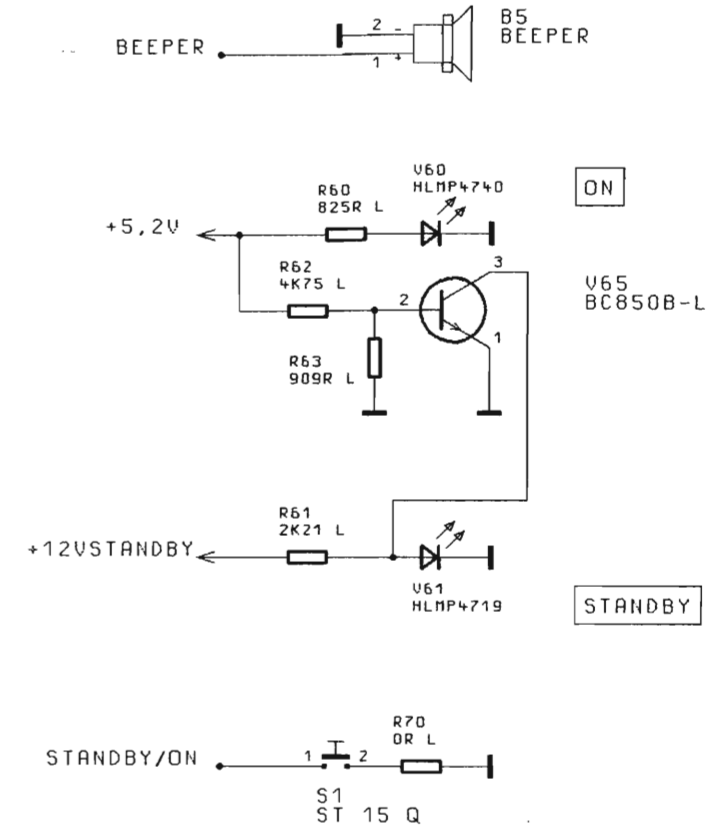
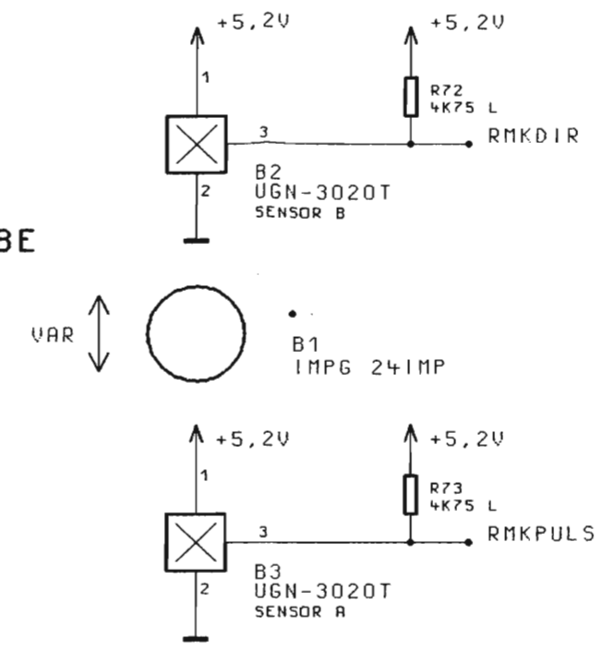
FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1051.0004.01 BL. 1

ZU/TO
FRONT PANEL BOARD I I




ZU/TO
VSWR-PROBE

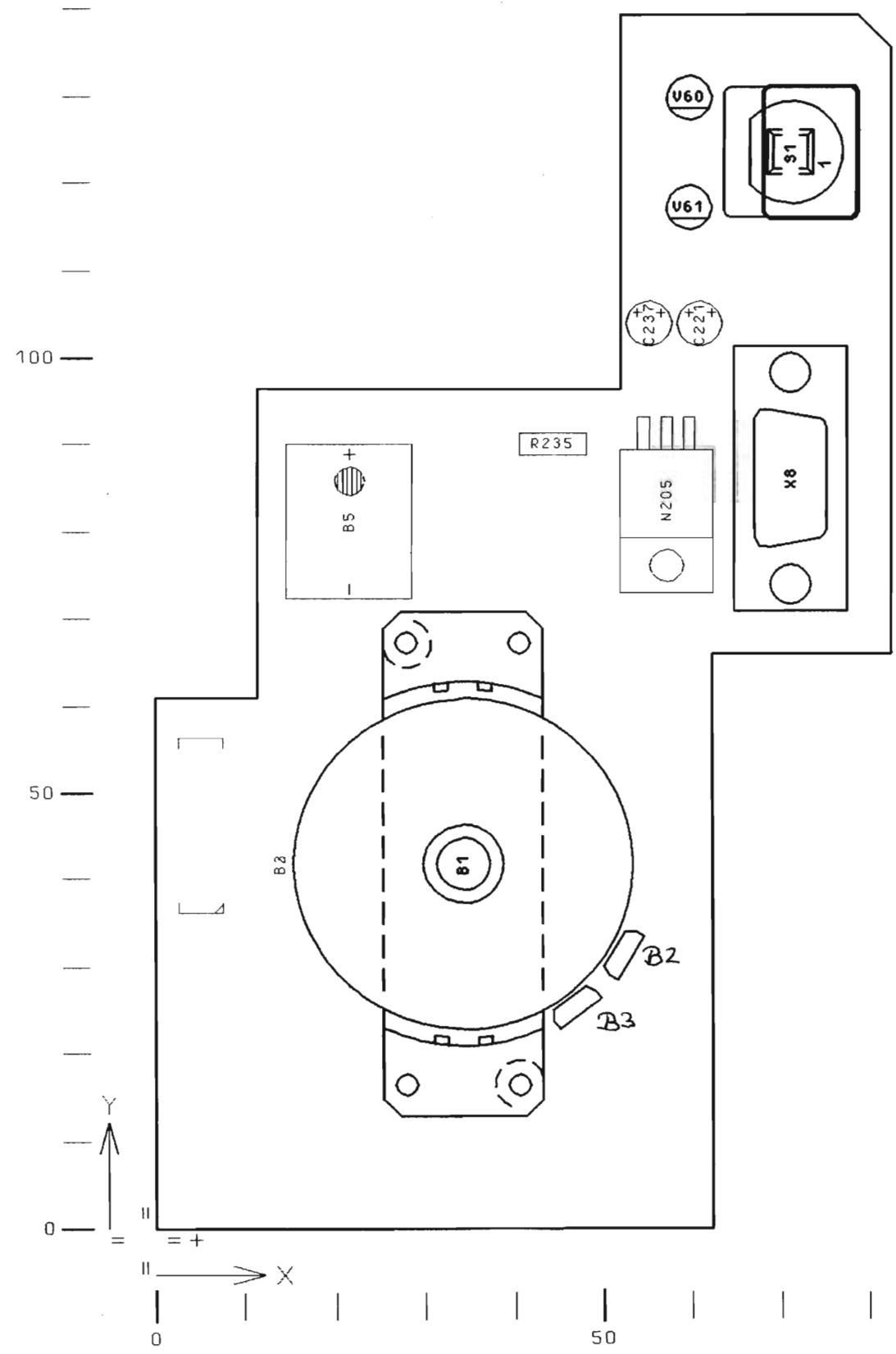


ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

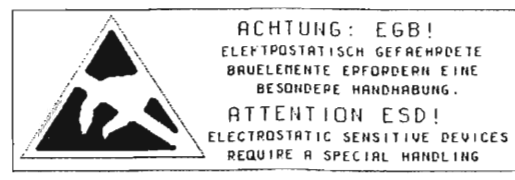
STROMLAUF GILT FUER VAR.02
CIRCUIT DIAGRAM IS VALID FOR MOD.02

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			BEARB.		BT	FRONT PANEL BOARD I
			GEPR.			
			NORN			
			PLOTT	15.07.97		
			 ROHDE & SCHWARZ			ZEICHN.-NR.
						1051.0004.01S
REND. IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT	CMD	REG. I. V.
						1050.9008
						ERSTE Z.
						1050.9008
						BLATT-NR.
						1+
						v. 1 BL.

FÜR DIESE ZEICHNUNG BEHALTEN WIP UNS ALLE RECHTE UOD
 DIESE ZEICHNUNG IST EINE SCHNEBRÜDCK. REBERPUNGEN KOENNEN NUP DUCH RENDERS
 ES DATENSATZES ERFOLGEN



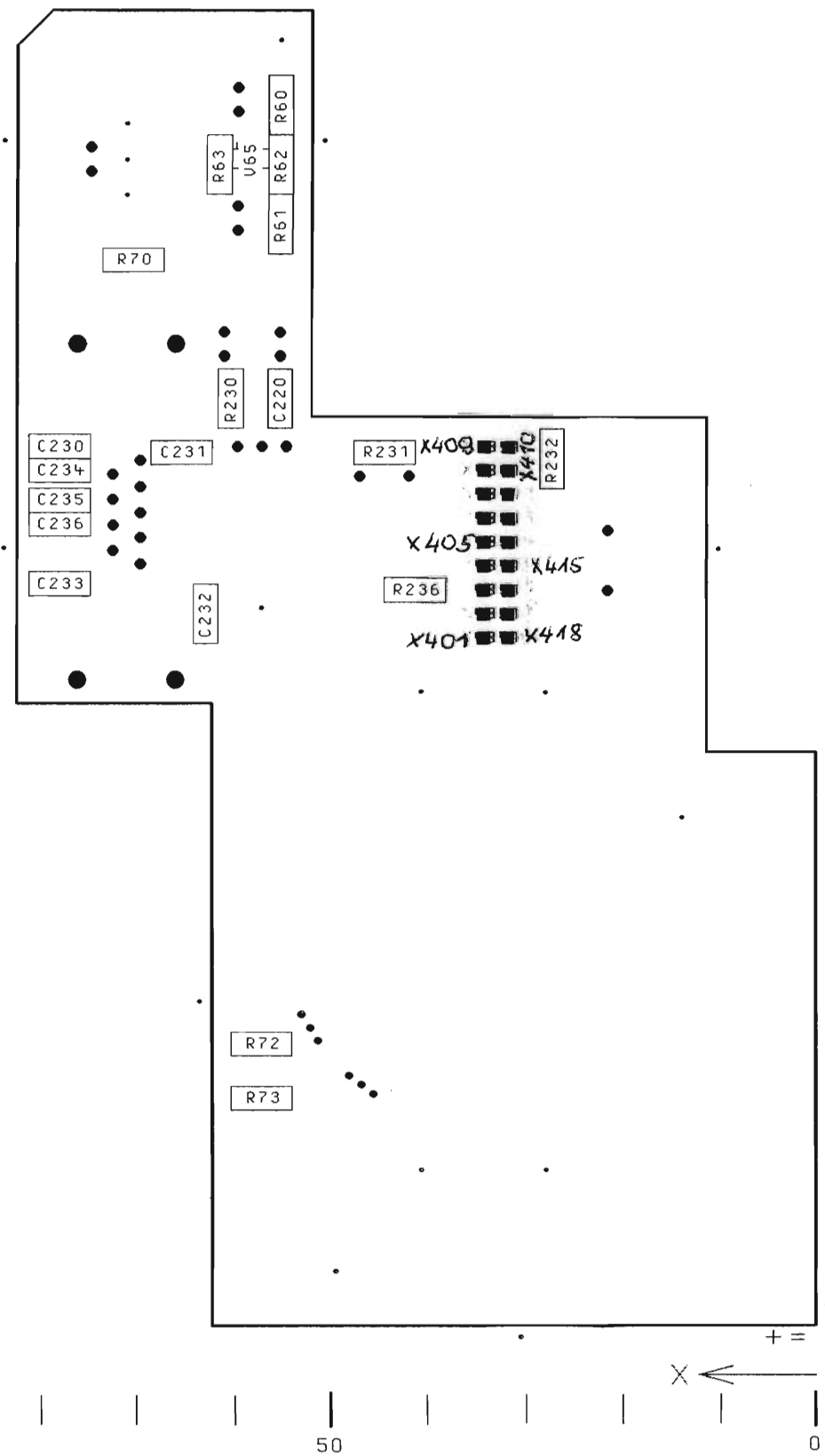
DARSTELLUNG SEITE B
VIEW ON SIDE B



BINDENDE ANGABEN UEBER VARIANTEN,
 TRIMMWERTE, BRUTEILWERTE UND
 NICHT BESTUECKTE BRUTEILE SIEHE SR.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

06/		12.02.97	BT	1 CMK	TAG	NAME	BENENNUNG	
				BERPB.		BT	FRONT PANEL BOARD I	Z
				GEPP.				
				NOPM				
				PLÖTT	25.02.97			
							ZEICHN.-NR.	BLATT-NR.
							1051.0004.01	1+
							ED	v. 2 BL.
REND.	RENDERUNGS-	DATUM	NAME	ROHDE&SCHWARZ		REG. I. V. 1050.9008		ERSTE Z. 1050.9008
IND.	MITTEILUNG			ZU GEHRET	CMD			

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR
 DIESE ZEICHNUNG IST EIN DRUCKAUSDRUCK, REPARATURKOPPIERUNGEN KÖNNEN NUR DURCH RECHTE DES DRUCKGEBERS ERFOLGEN



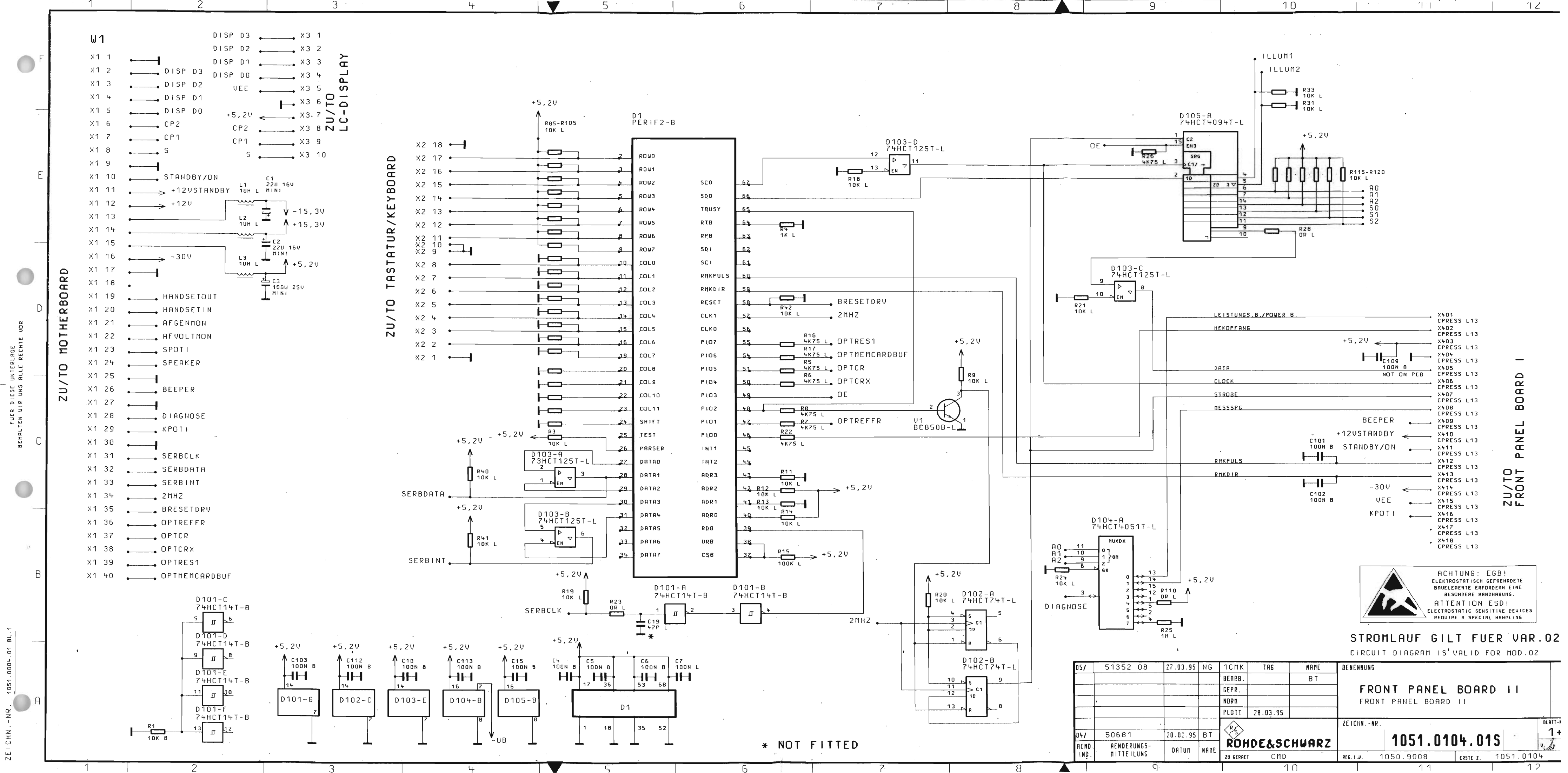
DARSTELLUNG SEITE A
VIEW ON SIDE A



ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTÜCKTE BAUTEILE SIEHE SA.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

06/		12.02.97	BT	1CMK	TAG	NAME	BENENNUNG		Z
				BEARB.		BT	FRONT PANEL BOARD I		
				GEPR.					
				NORM					
				PLOTT	25.02.97				
				ROHDE & SCHWARZ		ZEICHN.-NR.		BLATT-NR.	
REND. IND.	RENDERUNGS- MITTEILUNG	DATUM	NAME			1051.0004.01		ED	2-
				ZU GERÄT	CMD	REG.-I.V.	1050.9008	ERSTE Z.	1050.9008

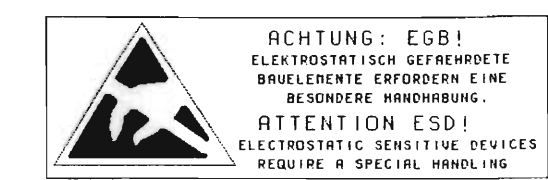


FUER DIESE UNTERLAGE
 BEHALTEN SIE ALLE RECHTE VOR

ZU/TO MOTHERBOARD

ZU/TO TASTATUR/KEYBOARD

ZU/TO FRONT PANEL BOARD I



ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

STROMLAUF GILT FUER VAR.02
 CIRCUIT DIAGRAM IS VALID FOR MOD.02

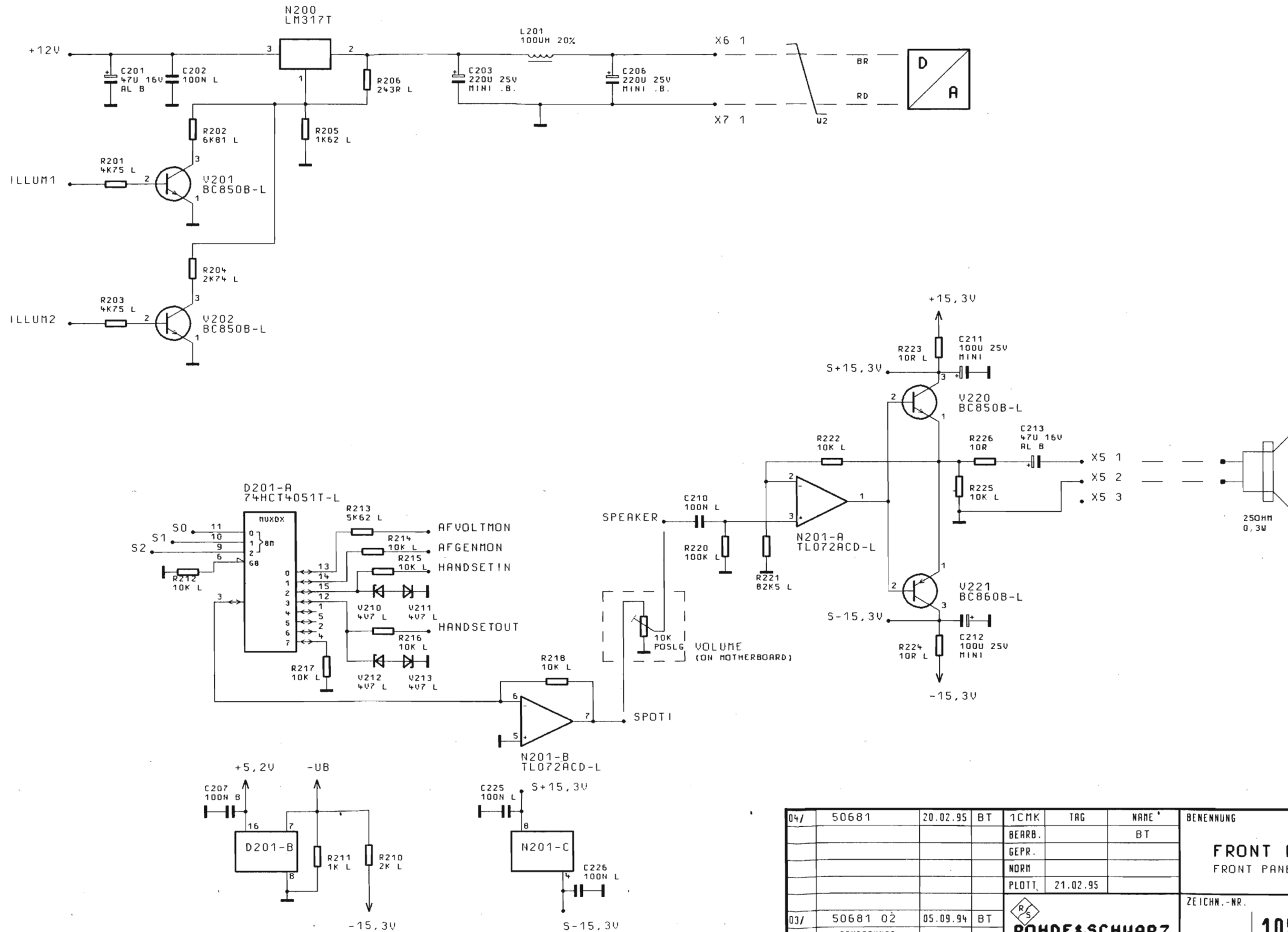
05/	51352 08	27.03.95	NG	1CMK	TAG	NAME	BENENNUNG
				BEARB.		BT	
				GEPR.			
				NORN			
				PLOTT	28.03.95		
04/	50681	20.02.95	BT				
REND. IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME			1051.0104.015	ZEICHN.-NR. 1051.0104
				ZU GEHÖRT	CMD	REG. I. J.	1050.9008
						ERSTE Z.	1051.0104


* NOT FITTED

ZEICHN.-NR. 1051.0004-01 BL.1

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

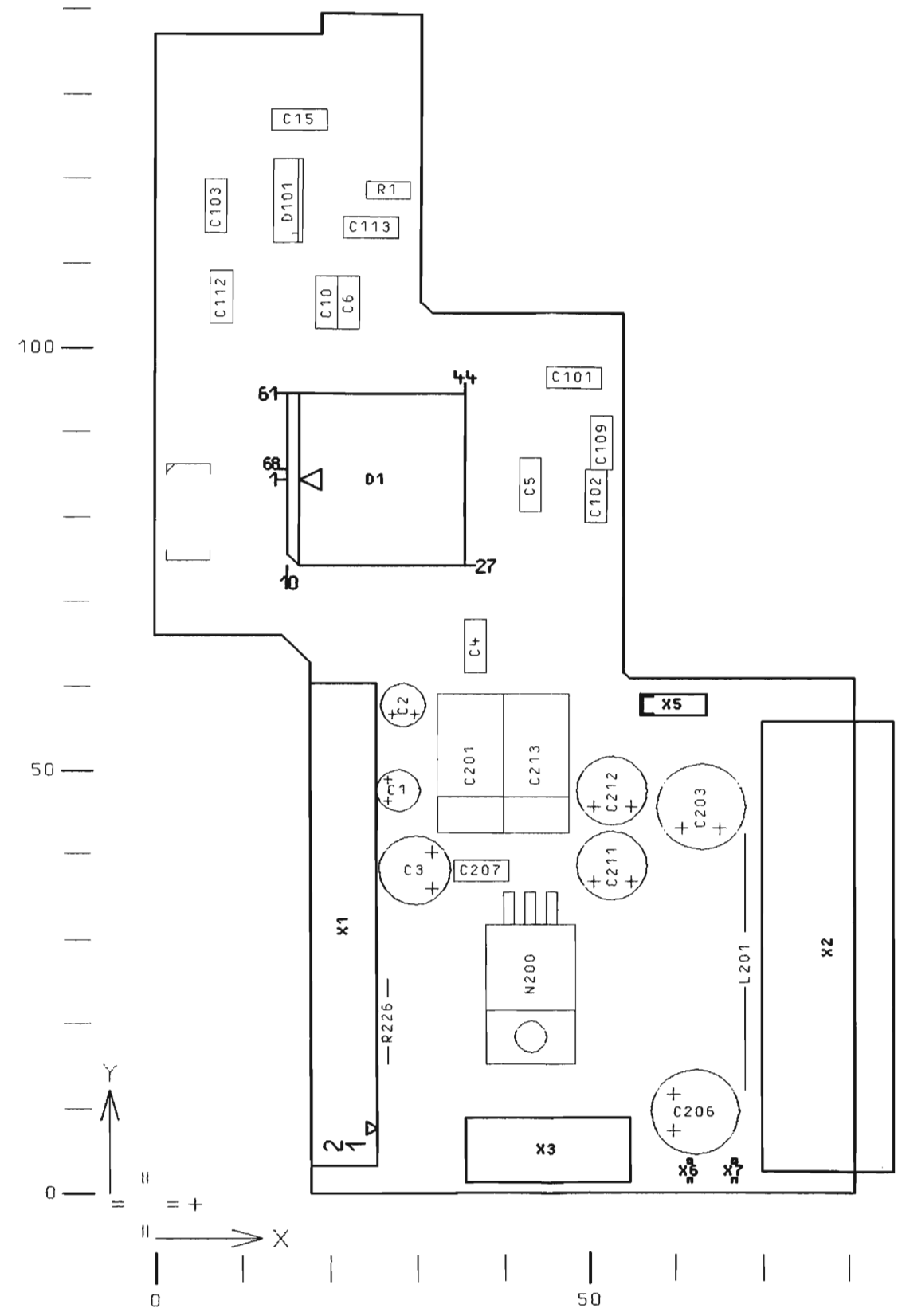
ZEICHN.-NR. 1051.0104.01 BL.2



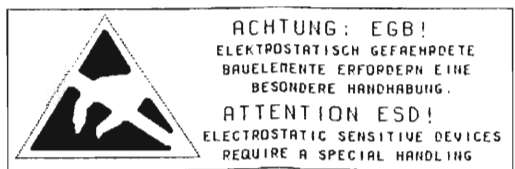
04/	50681	20.02.95	BT	1CMK	TAG	NAME	BENENNUNG
				BEARB.		BT	FRONT PANEL BOARD II FRONT PANEL BOARD II
				GEPR.			
				NORM			
				PLOTT.	21.02.95		
03/	50681 02	05.09.94	BT				ZEICHN.-NR.
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME				1051.0104.01S
				ZU GERÄT	CMD	REG.-I.V.	1050.9008
						ERSTE Z.	1051.0104

DIESE ZEICHNUNG IST EINE RECHNEPRAUSDÜCKUNG. VERÄNDERUNGEN KÖNNEN NUR DURCH REVISIONEN DES DATENSATZES ERFOLGEN.

F
E
D
C
B
A



DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

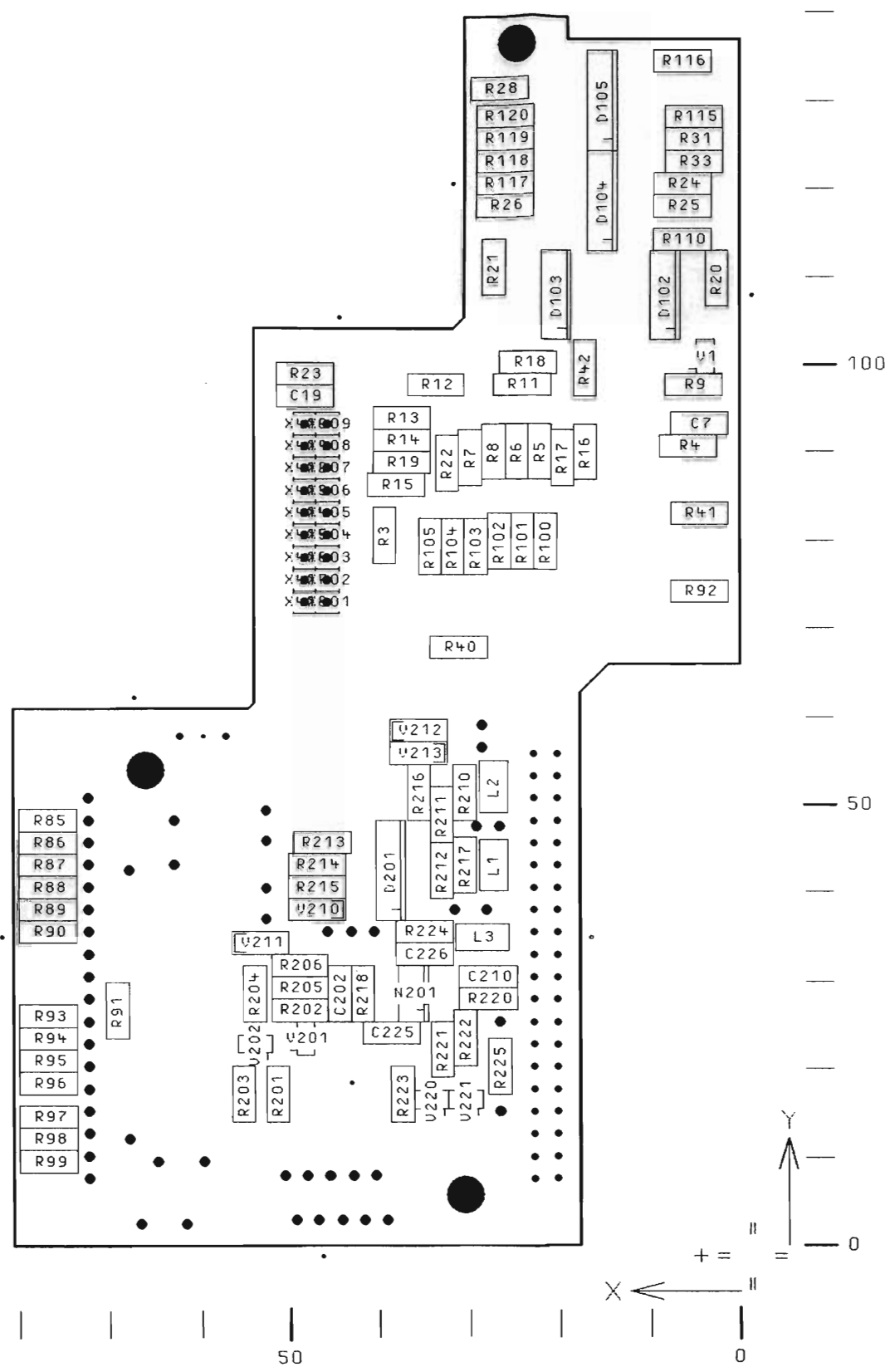
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

07/		12.02.97	BT	1 CMK	TAG	NAM	BENENNUNG		
				BEARB.		BT	FRONT PANEL BOARD II FRONT PANEL BOARD II	Z	
				GEPP.					
				NORM					
				PLOT1	12.02.97				
REND. IND.	ÄNDERUNGS- MITTEILUNG	DATUM	NAM	 ROHDE & SCHWARZ		ZEICHN.-NR.		BLATT-NR.	
						1051.0104.01		1+	
				ZU GERÄT	CMD	REG. I. V.	1050.9008	ERSTE Z.	1051.0104

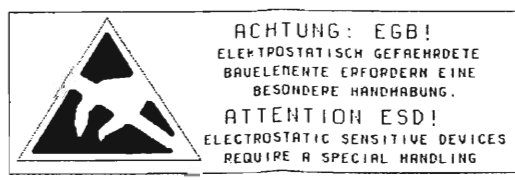
1 2 3 4 5 6 7 8

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR.
 FÜR DRUCKRECHNEPRÜFDUCK, REBERGUNG KÖNNEN NUR DURCH RECHNEPRÜFDUCK DES DATENSATZES ERFOLGEN
 DIESE ZEICHNUNG IST FÜR DRUCKRECHNEPRÜFDUCK

F
E
D
C
B
A



DARSTELLUNG SEITE A
VIEW ON SIDE A



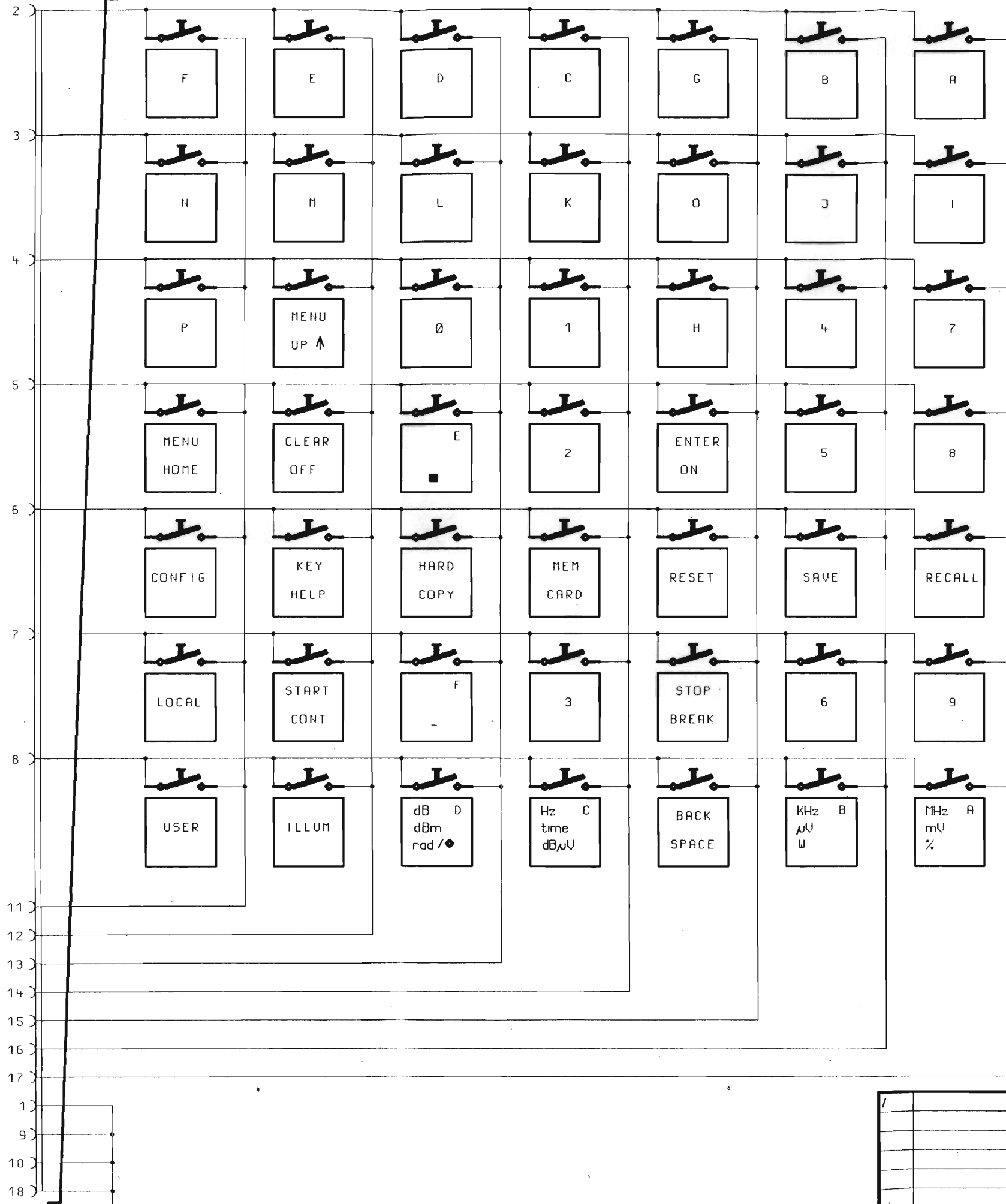
BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTÜCKTE BAUTEILE SIEHE SA.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

07/		12.02.97	BT	1 CMK	TAG	NAME	BENENNUNG	
				BEARB.		BT	FRONT PANEL BOARD II FRONT PANEL BOARD II	Z
				GEPR.				
				NOPM				
				PLOTT	12.02.97			
							ZEICHN.-NR.	BLATT-NR.
							1051.0104.01	2-
								v. 4 BL.
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME			ZU GERÄT	REG. I. V.	ERSTE Z.
						CMD	1050.9008	1051.0104

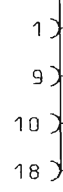
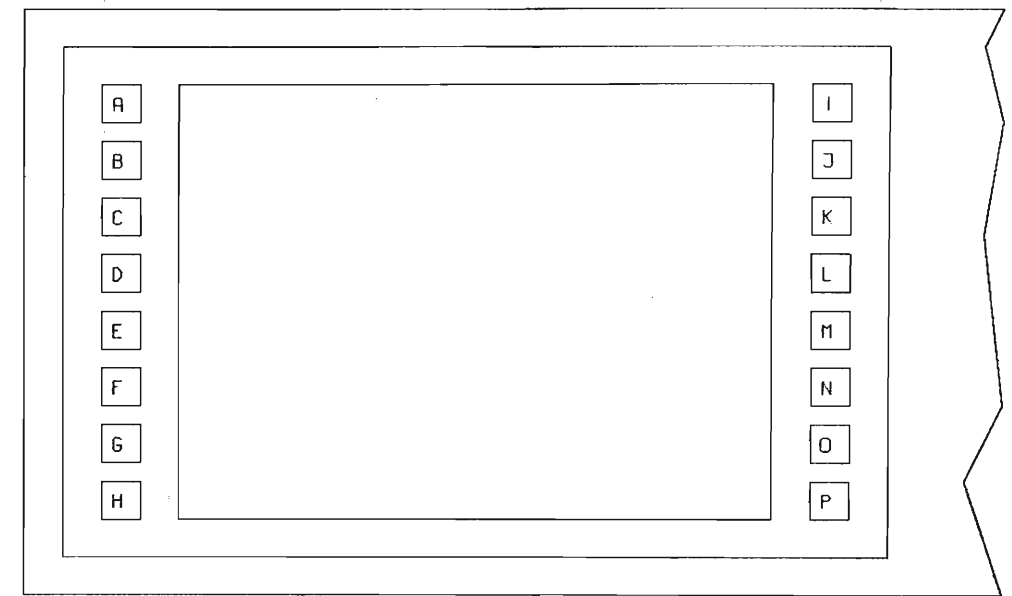
1 2 3 4 5 6 7 8

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR.



SOFTKEYS



1				1 CMK	TAG	NAME	BENENNUNG
				BEARB.	10.94	BI	TASTATUR KEYBOARD
				GEPP.			
				NORM			
				PLOTT	13.10.94		
01		10.94	Bi				ZEICHN.-NR.
REND. IND.	ANFORDERUNGS- MITTEILUNG	DATUM	NAME				1050.9943.005
				ZU GERÄT	CMD	PEG. I. V.	1050.9008
						ERSTE Z.	1050.9008



ROHDE & SCHWARZ

SERVICE DOCUMENTS

Adapter for Options CMD-B60 (incl. CMD-B61/-B62)

1059.5405.02



Contents

	Page
7 Service Instructions for the Module CMD-B60 (incl. CMD-B61/-B62)	7.1
7.1 Function Description	7.1
7.1.1 Complete Circuit	7.1
7.1.2 IEEE-Bus CMD-B61	7.2
7.1.3 Memcard Interface CMD-B62.....	7.3
7.2 Interfaces	7.4

Parts lists
Circuit diagrams
Component layout diagrams



7 Service Instructions for Module CMD-B60 (incl. CMD-B61/-B62)

7.1 Function Description

(cf. circuit diagrams 1059.5440 S, 1051.7638 S and 1051.8228 S)

Module CMD-B60 comprises the amplifier for the netclock output. In addition, it integrates the control logic for further modules mainly in the FPGA D10.

The CMD-B61 board is an IEEE bus which can adopt the function of a master. It is plugged onto the CMD-B60. The board CMD-B62 is located behind the front panel and allows for operating PCMCIA memory cards.

7.1.1 Complete Circuit

The complete module CMD-B60 is controlled via the AT-bus interface applied to the connector X2. All control registers are I/O mapped and predecoding is already performed on the controller board. Only the lower 10 address lines are decoded for the lines CSOPTIONEN and CSMEM, the IEEE-bus lines CS7210, X2E0 and X2FI require all 16 address lines. The devices D109 and D116 split the signal CSOPTIONEN into further chip-selects, the address space of which can be looked up in Tables 7-1 and 7-2.

Table 7-1

Signal designation	Address (HEX)	SA9...SA0	AEN	Active	Access
CSOPTIONEN	100 - 17F	01 0XXX XXXX	0	Low	-----
CS_FPGA	100 - 10F	01 0000 XXXX	0	Low	8 bits
CS_POLL	120 - 123	01 0010 00XX	0	Low	8 bits
CS_DIG_RES	124 - 127	01 0010 01XX	0	Low	8 bits
CSMEM	1C0 - 1CF	01 1100 XXXX	0	Low	16 bits

Table 7-2

Signal designation	SA15...SA0	IOR	IOW	AEN	Active
CS7210	000X XX10 1110 0001	X	X	0	Low
X2E0	000X XX10 1110 0000	0	X	0	Low
X2FI	XXXX XX10 1111 0111	X	0	0	Low

More frequently used unidirectional signals of the AT bus are buffered in the device D106, the lower 8 bits of the bidirectional data bus are driven via D110.

The clock signal is processed in ICs D104, D105, D107, D108 and D114. The network-specific NETCLK is amplified and output via socket REFCLK. The 20-MHz clock is divided down to 5 MHz and used as an auxiliary clock for the IEEE bus.

With initialization of the instrument, the controller must be able to identify optional boards fitted in order to allow specific menu items to occur. Therefore, two stages are provided on the module CMD-B60. One of them is used to identify the module CMD-B60 and is accommodated in the FPGA10. The latter incorporates a register which accepts an 8-bit word. If the module CMD-B60 is fitted, this value can be read out in inverted form. The second stage consists of the driver D111, the inputs of which are provided with pull-up resistors and lead to the slots of each optional board. If any optional board is fitted, the corresponding input is connected to ground. Identification of the module CMD-B62 is accomplished via the PERIF component of the front-panel board.

7.1.2 IEEE-Bus CMD-B61

The module CMD-B61 accommodates the IEEE-bus controller NEC 7210 (D10) and the line drivers D20 and D30; the control logic is located on the module CMD-B60. The status of various lines of the IEEE-bus interface can be obtained via the component D115. The interrupt generated by the IEEE bus is routed to one of 5 IRQ lines of the AT bus by fitting the 0-Ohm resistors R170 to R174. Finally, the FPGA incorporates a state machine, the state transitions of which depend on the address lines CS7210 and SA10 to SA12. Moreover, it accommodates the complete additional logic for IEEE-bus control and for compensation of errors in the NEC 7210.

7.1.3 Memcard Interface CMD-B62

This board is completely controlled via the AT bus and additionally requires only the chip-select signal CSMEM, which is generated by the controller. The control software is contained in two DOS device drivers, which are entered into the CONFIG.SYS file. SRAM and flash cards can thus be addressed as DOS drives. The circuit consists of the control logic on the board CMD-B60 and the card driver CMD-B62, which can be operated at a distance of up to 25 cm.

The FPGA generates the following chip-select signals from the addresses BSA0 to BSA3 and the signals CSMEM, BRD and BWR (Table 7-3):

Table 7-3

Signal designation	SA9...SA0	IOR	IOW	AEN	Active
CDCS	01 1100 0010	X	X	0	Low
RES	01 1100 0001	0	X	0	Low
INCCNT	01 1100 001X 01 1100 001X	0 X	X 0	0	Low
PORTCS	01 1100 1XX0	X	X	0	Low
ASTRB	01 1100 000X	X	0	0	Low

These chip-select signals select the port D220, the timers D230 and D240 and the card drivers.

Ports A and C of D220 have been configured as inputs which provide various status signals. Port B is an output, which selects the board driver using SEL0/1. The voltage regulator N201 is switched via ENVPP and thus generates the programming voltage required for operating flash cards. The output of the comparator N240 shows whether the voltage is within the tolerances.

Since the card drivers are controlled via lines which are comparatively long, the 16-bit data bus SD0 to SD15 and the read/write signals IOR and IOW are buffered via the components D201, D202 and D205.

Memory cards which correspond to PCMCIA standard, provide an address space of 64 MB. Since the data-bus width is 16 bits, 25 address lines must lead to the memory card. The most significant address line is provided by the port as HIADR. The addresses 23 to 8 are supplied by a 16-bit register D3 and D4 on the card driver. This register is loaded by means of ASTRB. The addresses 7 to 0 are provided by the 8-bit counter D230, D240, which is incremented by means of INCCNT and reset using RES. The counter state is latched in D1 on the card driver. One read or write cycle is processed as follows:

First, the HIADR port is set, subsequently the 16-bit register on the card driver is set. Then, 256 successive addresses on the memory card can be written by writing into one individual register address and the counter being incremented automatically.

7.2 Interfaces

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X1A1	GND	B	P	-	
X1A2	+5 VREF	I	P	+5 V +/- 0.5 %	Reference
X1A3	GND	B	P	-	
X1A4	-15.3 V	I	P	+15 V +/- 5 %	Supply voltage
X1A5	GND	B	P	-	
X1A6 X1A7	+5.2 V	I	P	+5 V +/- 5 %	Supply voltage
X1A8	NC	-	-	-	
X1A9	+7.7 V	I	P	7.7 V +/- 5 %	Supply voltage
X1A10	GND	B	P	-	
X1A11	+15.3 V	I	P	+15 V +/- 5 %	Supply voltage
X1A12	GND	B	P	-	
X1A13	NC	-	-	-	
X1A14	GND	B	P	-	
X1A15	BNETCLK	I	D	TTL	Network clock
X1A16	GND	B	P	-	
X1A17	NC	-	-	-	
X1A18	BITINT	O	D	TTL	Interrupt
X1A19	NC	-	-	-	
X1A20	CS7210	I	D	TTL	Chip select
X1A21	CSMEM	I	D	TTL	Chip select
X1A22	X2E0	I	D	TTL	Chip select
X1A23	X2F1	I	D	TTL	Chip select
X1A24	CSOPTIONEN	I	D	TTL	Chip select
X1A25	GND	B	P	-	
X1A26	MULTIF1	O	D	TTL	
X1A27	MULTIF2	O	D	TTL	
X1A28	MULTIF3	O	D	TTL	
X1A29	MULTIF4	O	D	TTL	
X1A30	MULTIF5	O	D	TTL	
X1A31	MULTIF6	O	D	TTL	
X1A32	20 MHz	I	D	TTL	System clock
X1B1	GND	B	P	-	
X1B2	BICLK	I	D	TTL	Reserve
X1B3	BIDATA	I	D	TTL	Reserve
X1B4	BIFRAME	I	D	TTL	Reserve
X1B5	GND	B	P	-	
X1B6	AFGEN	O	A	max. 5 V RMS	
X1B7	AFGENGND	B	A	-	
X1B8	AFVOLT	I	A	max. 30 V RMS	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X1B9	AFVOLTGND	B	A	-	
X1B10	HANDSETOUT	I	A	max. 1.4 Vp	
X1B11	AFVOLTMON	O	A	max. 2.8 Vp	
X1B12	AFGENMON	O	A	max. 4.6 Vp	
X1B13	DELTAI	I	A	max. 1.4 Vp	
X1B14	GND	B	P	-	
X1B15	SCIEXTRXD	I	D	TTL	SCI interface of 56002 (DDC)
X1B16	SCIEXTTXD	I	D	TTL	
X1B17	SCIEXTSCLK	I	D	TTL	
X1B18	DRQ1	O	D	TTL	DMA channel of AT bus
X1B19	DACK1	I	D	TTL	
X1B20	GND	B	P	-	
X1B21	/ASTRB	O	D	TTL	Interface to memcard buffer B62
X1B22	MEMA0	O	D	TTL	
X1B23	MEMA1	O	D	TTL	
X1B24	MEMA2	O	D	TTL	
X1B25	MEMA3	O	D	TTL	
X1B26	MEMA4	O	D	TTL	
X1B27	MEMA5	O	D	TTL	
X1B28	MEMA6	O	D	TTL	
X1B29	MEMA7	O	D	TTL	
X1B30	/SEL0	O	D	TTL	
X1B31	/SEL1	O	D	TTL	
X1B32	GND	B	P	-	
X1C1	/CD0	I	D	TTL	
X1C2	/CD1	I	D	TTL	
X1C3	CTYP0	I	D	TTL	
X1C4	CTYP1	I	D	TTL	
X1C5	HIADR	O	D	TTL	
X1C6	/REG	O	D	TTL	
X1C7	BVD1	I	D	TTL	
X1C8	BVD2	I	D	TTL	
X1C9	WP	I	D	TTL	
X1C10	/RD1	I	D	TTL	
X1C11 X1C12	VPP	O	A	5 V to 12 V	Programming language for flash cards
X1C13	/CDCS	O	D	TTL	
X1C14	/IORE	O	D	TTL	
X1C15	/IOWE	O	D	TTL	
X1C16	D0	B	D	TTL	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X1C17	D1	B	D	TTL	
X1C18	D2	B	D	TTL	
X1C19	D3	B	D	TTL	
X1C20	D4	B	D	TTL	
X1C21	D5	B	D	TTL	
X1C22	D6	B	D	TTL	
X1C23	D7	B	D	TTL	
X1C24	D8	B	D	TTL	
X1C25	D9	B	D	TTL	
X1C26	D10	B	D	TTL	
X1C27	D11	B	D	TTL	
X1C28	D12	B	D	TTL	
X1C29	D13	B	D	TTL	
X1C30	D14	B	D	TTL	
X1C31	D15	B	D	TTL	
X1C32	GND	B	P	-	
X2A1	GND	B	P	-	Ground for AT bus signals
X2A2	NC	-	-	-	
X2A3					
X2A4	SD0	B	D	TTL	
X2A5	SD1	B	D	TTL	
X2A6	SD2	B	D	TTL	
X2A7	SD3	B	D	TTL	
X2A8	SD4	B	D	TTL	
X2A9	SD5	B	D	TTL	
X2A10	SD6	B	D	TTL	
X2A11	SD7	B	D	TTL	
X2A12	SD8	B	D	TTL	
X2A13	SD9	B	D	TTL	
X2A14	SD10	B	D	TTL	
X2A15	SD11	B	D	TTL	
X2A16	SD12	B	D	TTL	
X2A17	SD13	B	D	TTL	
X2A18	SD14	B	D	TTL	
X2A19	SD15	B	D	TTL	
X2A20	NC	-	-	-	
X2A21					
X2A22	RESETDRV	I	D	TTL	
X2A23	IOW	I	D	TTL	
X2A24	IOR	I	D	TTL	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X2A25 X2A26 X2A27	NC	-	-	-	
X2A28	IOCS16	O	D	TTL	
X2A29	TC	I	D	TTL	
X2A30 X2A31 X2A32	NC	-	-	-	
X2B1	SA0	I	D	TTL	
X2B2	SA1	I	D	TTL	
X2B3	SA2	I	D	TTL	
X2B4	SA3	I	D	TTL	
X2B5	SA4	I	D	TTL	
X2B6	SA5	I	D	TTL	
X2B7	SA6	I	D	TTL	
X2B8 X2B9 X2B10	NC	-	-	-	
X2B11	SA10	I	D	TTL	
X2B12	SA11	I	D	TTL	
X2B13	SA12	I	D	TTL	
X2B14 X2B15 X2B16 X2B17 X2B18 X2B19 X2B20 X2B21 X2B22	NC	-	-	-	
X2B23	IRQ5	O	D	TTL	
X2B24	IRQ6	O	D	TTL	
X2B25	IRQ7	O	D	TTL	
X2B26	IRQ9	O	D	TTL	
X2B27 X2B28	NC	-	-	-	
X2B29	TBUSRES1	I	D	TTL	
X2B30	NC	-	-	-	
X2B31	IRQ15	O	D	TTL	
X2B32	GND	B	P	-	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X2C1	TBUSRES2	I	D	TTL	System clock from link handler
X2C2	TBUSRES3	I	D	TTL	
X2C3	TBUSRES4	I	D	TTL	
X2C4	TBUSRES5	I	D	TTL	
X2C5	TBUSRXFRMOUT	I	D	TTL	
X2C6	TBUSAFRAMEREF	I	D	TTL	
X2C7	BD0	B	D	TTL	Interface to AF Board B67
X2C8	BD1	B	D	TTL	
X2C9	BD2	B	D	TTL	
X2C10	BD3	B	D	TTL	
X2C11	BD4	B	D	TTL	
X2C12	BD5	B	D	TTL	
X2C13	BD6	B	D	TTL	
X2C14	BD7	B	D	TTL	
X2C15	BA0	I	D	TTL	
X2C16	BA1	I	D	TTL	
X2C17	BA2	I	D	TTL	
X2C18	BA3	I	D	TTL	
X2C19	BA4	I	D	TTL	
X2C20	BRD	I	D	TTL	
X2C21	BWR	I	D	TTL	
X2C22	CSPFC	I	D	TTL	
X2C23	CSOPTION	I	D	TTL	
X2C24	NC	-	-	-	
X2C25	PFCINT	O	D	TTL	
X2C26	OPTIONINT	O	D	TTL	
X2C27	SC0	B	D	TTL	SSI interface of 56002 (DDC)
X2C28	SC1	B	D	TTL	
X2C29	SC2	B	D	TTL	
X2C30	SCK	B	D	TTL	
X2C31	SRD	B	D	TTL	
X2C32	STD	B	D	TTL	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X4A1	GND	B	P	-	Interface to IEEE-bus card B61
X4A2	+5 V	O	P	+5 V +/- 5 %	
X4A3	BRES	O	D	TTL	
X4A4	/DACKIEC	O	D	TTL	
X4A5	/BRD	O	D	TTL	
X4A6	SA10	O	D	TTL	
X4A7	SA12	O	D	TTL	
X4A8	BSD1	B	D	TTL	
X4A9	BSD3	B	D	TTL	
X4A10	BSD5	B	D	TTL	
X4A11	BSD7	B	D	TTL	
X4A12	IECINT	I	D	TTL	
X4A13	/T/R2	O	D	TTL	
X4A14	/GPATN	I	D	TTL	
X4A15	/GPSRQ	I	D	TTL	
X4A16	/GPIFC	I	D	TTL	
X4C1	GND	B	P	-	
X4C2	+5 V	O	P	+5 V +/- 5 %	
X4C3	5 MHz	O	D	TTL	
X4C4	CS7210	O	D	TTL	
X4C5	/BWR	O	D	TTL	
X4C6	SA11	O	D	TTL	
X4C7	BSD0	B	D	TTL	
X4C8	BSD2	B	D	TTL	
X4C9	BSD4	B	D	TTL	
X4C10	BSD6	B	D	TTL	
X4C11	DRQIEC	I	D	TTL	
X4C12	T/R2	I	D	TTL	
X4C13	/R2	O	D	TTL	
X4C14	/GPEOI	I	D	TTL	
X4C15	/GPREN	I	D	TTL	
X4C16	OPTPOLL_IEC	I	D	TTL	
X3_1	GND	B	P	-	Interface to AF option B67
X3_2 X3_3	+5 V	O	P	+5 V +/- 5 %	
X3_4	GND	B	P	-	
X3_5	+15 V	O	P	+15 V +/- 5 %	
X3_6	+7.5 V	O	P	+7.5 V +/- 5 %	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X3_7	-15 V	O	P	-15 V +/- 5 %	
X3_8	GND	B	P	-	
X5_1	GND	B	P	-	
X5_2	BD0	B	D	TTL	
X5_3	B20 MHz	O	D	TTL	
X5_4	BD1	B	D	TTL	
X5_5	10 MHz	O	D	TTL	
X5_6	BD2	B	D	TTL	
X5_7	/BRES	O	D	TTL	
X5_8	BD3	B	D	TTL	
X5_9	E2PROM_SCLK	O	D	TTL	
X5_10	BD4	B	D	TTL	
X5_11	E2PROM_SD	B	D	TTL	
X5_12	BD5	B	D	TTL	
X5_13	PFCINT	I	D	TTL	
X5_14	BD6	B	D	TTL	
X5_15	OPTIONINT	I	D	TTL	
X5_16	BD7	B	D	TTL	
X5_17	GND	B	P	-	
X5_18	BRD	O	D	TTL	
X5_19	NC	-	-	-	
X5_20	BWR	O	D	TTL	
X5_21	BA0	O	D	TTL	
X5_22	CSOPTION	O	D	TTL	
X5_23	BA1	O	D	TTL	
X5_24	CSPFC	O	D	TTL	
X5_25	BA2	O	D	TTL	
X5_26	OPTPOLL_AF	I	D	TTL	
X5_27	BA3	O	D	TTL	
X5_28	GND	B	P	-	
X5_29	BA4	O	D	TTL	
X5_30	NC	-	-	-	
X5_31	GND	B	P	-	
X5_32	NC	-	-	-	

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
X6_1	GND	B	P	-	
X6_2	SC0	B	D	TTL	
X6_3	SC1	B	D	TTL	
X6_4	SC2	B	D	TTL	
X6_5	SCK	B	D	TTL	
X6_6	SRD	B	D	TTL	
X6_7	STD	B	D	TTL	
X6_8	GND	B	P	-	
X7_1	+5 VREF	O	P	+5 V +/- 0.5 %	
X7_2	NC	-	-	-	
X7_3	AFGEN*	I	A	max. 5 V RMS	
X7_4	AFGENGND*	B	P	-	
X7_5	GND	B	P	-	
X7_6	HANDSETOUT	O	A	max. 1.4 Vp	
X7_7	AFVOLTMON	I	A	max. 2.8 Vp	
X7_8	GND	B	P	-	
X8_1	AFVOLT	O	A	max. 30 V RMS	
X8_2	AFVOLTGND	B	P	-	
X8_3	GND	B	P	-	
X8_4	DELTA	O	A	max. 1.4 Vp	
X8_5	GND	B	P	-	
X8_6	NC	-	-	-	
X8_7	GND	B	P	-	
X8_8	AFGENMON	I	A	max. 4.6 Vp	
X20_1	REFCLK	O	D	TTL (Z _{out} ~ 50)	

Signal direction
 I = Input
 O = Output
 B = Bidirectional

Type of signal
 A = Analog
 D = Digital
 P = Power





ROHDE & SCHWARZ

Schaltteillisten
numerisch geordnet


Part lists
in numerical order

Listes des pièces détachées
par numéros de référence



Für diese Unterlage behalten wir uns alle Rechte vor.

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC_MODEL				
C100 ..102	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C103	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
C105 ..109	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C111	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C113 ..117	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C120	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C123	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C127	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C128	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C130 ..132	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
C150	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C151 ..153	CE 100UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100FS	
C154	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C155	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C156	CE 100UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100FS	
C170	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C171	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C172	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C173 ..175	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C180	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C181	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C182	CE 100UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100FS	
C183	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C184	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C190	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C191	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C192	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C193	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C194	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C195	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C201	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C202	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C205	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C210	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
C211	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C212	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	


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	06	16.02.98	EE ADAPT. F.CMD-B60.OPT. ADAPTER F.CMD-B60.OPT.	1059.5440.01 SA	1+	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C214	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C220	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C221	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
C230	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C240	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C250	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
D10	HS FPGA D10	1059.5592.00			
D101	BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER	BL 0007.4018.00	PHILIPS_SE	(PC)74HC14(D/T)	
D103	BL PC74HCT377T 8XD-FF EN OCTAL D-TYPE FLIPFLOP	BL 0007.6679.00	PHILIPS_SE	(PC)74HCT377(D/T)	
D104	BL 74ACT109SC 2XJK-FLIPFL IC J-K P-EDGE TRIG FLIPF	BL 1012.9391.00	HARRIS	CD74ACT109M	
D105	BL 74ACT109SC 2XJK-FLIPFL IC J-K P-EDGE TRIG FLIPF	BL 1012.9391.00	HARRIS	CD74ACT109M	
D106	BL PC74HC244T 8XBUFF. 3S OCTAL BUFFER TRI-STATE	BL 0007.3557.00	PHILIPS_SE	(PC)74HC244D(T)	
D107	BL PC74HCT132T 4X2IN SCHM NAND SCHMITT TRIGGER	BL 0007.6340.00	PHILIPS	(PC)74HCT132(D/T)	
D108	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D109	BL 74ACT138SC 3TO8 DECOD 3-TO-8 DECODER/DEMUX	BL 2007.5017.00	HARRIS	CD74ACT138(M)	
D110	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D111	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D112	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D113	BL PC74HCT244T 8XBUFF 3S OCTAL BUFFER	BL 0007.6562.00	PHILIPS_SE	(PC)74HCT244D(T)	
D115	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D116	BL 74ACT139SC 2X 1A4DEMUX IC DUAL 1-OF-4 DEMUX	BL 2000.2412.00	HARRIS	CD74ACT139M	
D117	BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER	BL 0007.4018.00	PHILIPS_SE	(PC)74HC14(D/T)	
D201	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D202	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D205	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D214	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)	
D220	BC UPD71055G(82C55)8B PIO PARALLEL INTERFACE UNIT	0836.8438.00	NEC	UPD71055GB	
D230	BL PC74HCT161T BIN.COUNT. BINARY COUNTER	BL 0007.6427.00	PHILIPS_SE	(PC)74HCT161(D/T)	
D240	BL PC74HCT161T BIN.COUNT. BINARY COUNTER	BL 0007.6427.00	PHILIPS_SE	(PC)74HCT161(D/T)	
L170	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L171	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L180	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L181	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L190	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L191	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
N201	BO LM317T +ADJ1A5 VREGL VOLTAGE REGULATOR NICHT BESTUECKT	BO 0339.4080.00	NSC	LM-317T	
N202	BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR	1036.4283.00	LINEAR_TEC	LT1117(CST)	

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		06	16.02.98	EE ADAPT. F.CMD-B60.OPT. ADAPTER F.CMD-B60.OPT.	1059.5440.01 SA	2+



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
N240	BO LM339D 4X COMPAR COMPARATOR	BO 0007.3757.00	SIGNETICS	LM-339D	
R100	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R101	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R103	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..105 R106	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R107	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R110	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
..112 R115	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R116	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R117	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R118	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R119	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R120	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R123	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
..130 R135	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R137	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R138	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R141	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R142	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R143	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R144	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R145	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R147	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
..150 R152	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R153	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R154	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R155	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R156	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R157	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R158	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R160	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT	RG 0007.5950.00	ROEDERSTEI	D25	
R161	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT	RG 0007.5950.00	ROEDERSTEI	D25	
R162	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R163	NICHT BESTUECKT RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R164	NICHT BESTUECKT RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R165	NICHT BESTUECKT RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R166	NICHT BESTUECKT RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R167	NICHT BESTUECKT RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R170	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R171	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R172	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R173	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R174	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R180	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R181	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R182	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R190	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R191	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	D25	
R192	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R205	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R206	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R207	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R210	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R211	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R212	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	D25	
R213	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	ROEDERSTEI	D25	
R214	RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5750.00	ROEDERSTEI	D25	
R215	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R216	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R217	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R230	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R231	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R240	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R241	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R250	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R251	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R252 ..254	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R260	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R270 ..281	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R284 ..299	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	ROEDERSTEI	D25	
R400 ..415	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R420	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R450	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R451	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
V201	AK BCW31 N 30V 200MA TRANSISTOR	AK 0010.6476.00	VALVO	BCW31	
X1	FP STECKERLEISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X2	FP STECKERLEISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X3	FP STIFTLISTE 8P.R2,54 PIN CONNECTOR	FP 0009.6182.00			
X4	FP BUCHSENLEISTE 32P.KURZ M.CL CONNECTOR	FP 0008.5624.00	SIEMENS	V42254-B2201-C413	
X5	FP STIFTLISTE 32P 2REIH. CONNECTOR 32P	FP 0010.7795.00			
X6 ..8	FP STIFTLISTE 8P.R2,54 PIN CONNECTOR	FP 0009.6182.00			
X10	XX BESTEHT AUS CONSISTING OF				
X20	FJ W.EINBAUST F.GS SMB PLUG	FJ 0063.5180.00	ROSENBERGE	59S-212-400-E3	
X100	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X101	FP STIFTLISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
Z1	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z2	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	
Z150	LD PI-FILTER 10GHZ SMD SMD-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
C1	CE 220UF+-20%10V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7927.00	PANASONIC	ECA 1 AFG 221 I	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C20	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C30	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
D10	BC NAT7210APD GPIB IF CON GPIB INTERFACE CONTROLLER	0010.9198.00	NATIONAL/I	NAT7210APD	
D20	BJ SN75160AN 8XBUS TRANSC BUS TRANSCEIVER	BJ 0345.6517.00	TEXAS	SN75160BN	
D30	BJ SN75162N 8XBUS TRANSC BUS TRANSCEIVER	BJ 0359.3567.00	TEXAS	SN75162BN	
R10 . . 12	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
X4	FP STECKERLEISTE 32P.KURZ CONNECTOR 32P.	FP 0008.5724.00	SIEMENS	V42254-B1200-C413	
X10	FM BUCHSENLEISTE 24POL. CONNECTOR	FM 0392.5971.00	AMPHENOL	57LE-20240-27CO-D35	


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Kennz. Comp. No.	Bezeichnung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR 02 = AUSF.F.CMD-B62 MOD 02 = MOD. F.CMD-B62 VAR 04 = AUSF.F.CMD-B63 MOD 04 = MOD F.CMD-B63 .. XX ZUEGH.STROML. CIRC.DIAGR. 1051.8228.01 S				
C1	CC 100NF+-10%50V X7R 1206	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..4	CERAMIC CHIP CAPACITOR				
C11	CC 100NF+-10%50V X7R 1206	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
	CERAMIC CHIP CAPACITOR				
C20	CE 10UF +-10% 10V 6032	CE 0007.7281.00	KEMET	T491 C 106 K 010 AS	
	TANTALUM SMD-CAPACITOR				
C21	CE 47UF +-10% 10V 7343	CE 0007.7300.00	KEMET	T491 D 476 K 010 AS	
	TANTALUM SMD-CAPACITOR				
D1	BL 74ACT541SC 8XBUF/DR 3S	BL 1006.4033.00	HARRIS	CD74ACT541M	
	8XBUFFER/LINEDRIV 3-ST				
D2	BL 74ACT541SC 8XBUF/DR 3S	BL 1006.4033.00	HARRIS	CD74ACT541M	
	8XBUFFER/LINEDRIV 3-ST				
D3	BL PC74HCT574T 8XD-FF 3S	BL 0007.6727.00	PHILIPS	(PC)74HCT574(T)	
	OCTAL D-TYPE FLIPFLOP				
D4	BL PC74HCT574T 8XD-FF 3S	BL 0007.6727.00	PHILIPS	(PC)74HCT574(T)	
	OCTAL D-TYPE FLIPFLOP				
D5	BL 74ACT245SC 8XBUSTRANSC	BL 0008.0739.00	HARRIS	CD74ACT245M	
	IC OCTAL BUS-TRANSC 3-ST				
D6	BL 74ACT245SC 8XBUSTRANSC	BL 0008.0739.00	HARRIS	CD74ACT245M	
	IC OCTAL BUS-TRANSC 3-ST				
D7	BL PC74HCT125T 4XBUFF. 3S	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
	QUAD LINE DRIVER				
D8	BL PC74HCT125T 4XBUFF. 3S	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
	QUAD LINE DRIVER				
R1	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
	CHIP RESISTOR				
R2	RG 1,0 KO +-1%TK100 1206	RG 0006.7271.00	PHILIPS_CO	RC02	
	CHIP RESISTOR				
R4	RG 4,75KOHM+-1%TK100 1206	RG 0007.5820.00	ROEDERSTEI	D25	
	RESISTOR CHIP				
R6	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
..9	RG CHIP RESISTOR				
R11	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
	RG CHIP RESISTOR				
R12	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
	RG CHIP RESISTOR				
	NICHT BESTUECKT/NOT FITTED				
R13	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
	RG CHIP RESISTOR				
R14	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
	RG CHIP RESISTOR				
R15	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
	RG CHIP RESISTOR				
	NICHT BESTUECKT/NOT FITTED				
R16	RG 10,0KOHM+-1%TK100 1206	RG 0007.0793.00	PHILIPS_CO	RC02	
..19	RG CHIP RESISTOR				
R20	RG 0-OHM WIDERSTAND-CHIP	RG 0007.5108.00	DRALORIC	CR 1206	
	RESISTOR CHIP 0-OHM				
R21	RG 0-OHM WIDERSTAND-CHIP	RG 0007.5108.00	DRALORIC	CR 1206	
	RESISTOR CHIP 0-OHM				
V1	AK BCW31 N 30V 200MA	AK 0010.6476.00	VALVO	BCW31	
	TRANSISTOR				
W1	DY CABLE	1051.8257.00			
	NUR VAR/ONLY MOD: 02				
W1A	FP BUCHSENLEISTE 20POL.	FP 0580.9291.00	BERG_ELEKT	76325-...	
	SOCKET CONNECTOR				
	NUR VAR/ONLY MOD: 04				
W1B	FP BUCHSENLEISTE 30POL.	FP 0283.1830.00	DUPONT CON	76325-...	
	SOCKET CONNECTOR				
	NUR VAR/ONLY MOD: 04				
X2	FP STECKERLEISTE 68P.F.MC	0008.5618.00	AMP	178431-1	
	CONNECTOR				

MENP 1	510 3PU-D	Äi	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr Page
		03	16.02.98	ED MEMCARD ADAPTER	1051.8228.01 SA	1+

Für diese Unterlage behalten wir uns alle Rechte vor.

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in	
X4	FP STIFTELEISTE 36P.R2,54 PIN CONNECTOR 3-POLIG/3 PINS	FP 0242.3600.00	BINDER	742-11-0179-00-36		
MENP1	510 3PU-D	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	03	16.02.98	ED MEMCARD ADAPTER	1051.8228.01 SA	2-	

XY-Liste

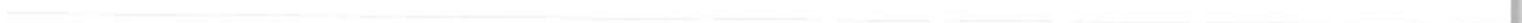
XY List

Erklärung der Spaltenbezeichnungen:

- Part:** Bauelement-Kennzeichen.
- Side:** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- XY:** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG:** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part:** Identification of instrument part.
- Side:** Side of the PC board on which instrument part is positioned.
- XY:** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG:** Square and page of the diagram for the respective instrument part.



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D10A	B	236	94	3E	1	X10	B	257	87	6E	1	X101	B	274	49	12C	1
D10B	B	236	94	4E	1	X20	B	256	114	7C	1						
D10C	B	236	94			X100	B	274	36	12C	1						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C100	A	217	109	3F	1	D104-B				8D	1	D201-A	A	124	93	2C	2
C101	A	206	107	3F	1	D104-C				5A	1	D201-B				2A	2
C102	A	225	79	4F	1	D105-A	A	160	56	10E	1	D202-A	A	152	97	2B	2
C103	B	198	89	4F	1	D105-B				9B	1	D202-B				2A	2
C105	A	166	53	6A	1	D105-C				6A	1	D205-A	A	112	83	2E	2
C106	A	192	39	2A	1	D106-A	A	181	42	9D	1	D205-B				2E	2
C107	A	166	39	6A	1	D106-B				9C	1	D205-C				3D	2
C108	A	236	114	6A	1	D106-C				2A	1	D205-D				3A	2
C109	A	207	114	2A	1	D107-A	A	160	41	5B	1	D205-E				3A	2
C111	A	228	90	2A	1	D107-B				9E	1	D214-A	A	153	114	6E	2
C113	A	192	83	5A	1	D107-C				2D	1	D214-B				6D	2
C114	A	146	40	5A	1	D107-D				2D	1	D214-C				4A	2
C115	A	232	59	4A	1	D107-E				6A	1	D220-A	B	137	136	7E	2
C116	A	207	127	4A	1	D108-A	A	227	117	6C	1	D220-B				5A	2
C117	A	128	38	7B	1	D108-B				6B	1	D230-A	A	104	103	9E	2
C120	A	191	62	3A	1	D108-C				6B	1	D230-B				5A	2
C123	A	238	36	3A	1	D108-D				6B	1	D240-A	A	104	117	9D	2
C127	A	216	114	4A	1	D108-E				6A	1	D240-B				6A	2
C128	A	192	105	7A	1	D109-A	A	197	116	11E	1	N201	B	124	62	4C	2
C130	B	234	55	3A	1	D109-B				2A	1	N202	A	124	59	5D	2
C131	B	222	125	5A	1	D110-A	A	181	64	10D	1	N240-A	A	153	125	7C	2
C132	B	178	125	7A	1	D110-B				3A	1	N240-B				7A	2
C201	A	139	92	2A	2	D111-A	A	227	38	11D	1	N240-C				7A	2
C202	A	159	95	2A	2	D111-B				3A	1	N240-D				7A	2
C205	A	123	84	3A	2	D112-A	A	210	117	10D	1	N240-E				6A	2
C210	B	135	64	4C	2	D112-B				8A	1	R100	A	214	104	2E	1
C211	A	131	66	5C	2	D112-C				8A	1	R101	A	221	111	2E	1
C212	B	135	70	6C	2	D112-D				8A	1	R103	A	221	88	1C	1
C214	A	159	112	4A	2	D112-E				4A	1	R104	A	221	100	2C	1
C220	A	127	119	5A	2	D113-A	A	181	107	5D	1	R105	A	221	103	2C	1
C221	B	110	136	5A	2	D113-B				5D	1	R106	A	225	82	4B	1
C230	A	108	100	5A	2	D113-C				7A	1	R107	A	211	109	3B	1
C240	A	113	117	6A	2	D115-A	A	219	63	7F	1	R110	A	227	79	4B	1
C250	A	166	133	6A	2	D115-B				4A	1	R111	A	236	96	5B	1
D101-A	A	218	90	2C	1	D116-A	A	197	128	7C	1	R112	A	184	105	5C	1
D101-B				2B	1	D116-B				7C	1	R115	A	217	55	7F	1
D101-C				2B	1	D116-C				4A	1	R116	A	219	55	7E	1
D101-D				9D	1	D117-A	A	122	41	6D	1	R117	A	222	55	7E	1
D101-E				10B	1	D117-B				7B	1	R118	A	224	55	7E	1
D101-F				6A	1	D117-C				7A	1	R119	A	227	55	7E	1
D101-G				2A	1	D117-D				7A	1	R120	A	229	55	7E	1
D103	A	181	85	5F	1	D117-E				7A	1	R123	A	221	49	11D	1
D103-B				5A	1	D117-F				7A	1	R124	A	221	36	11D	1
D104-A	A	135	40	7D	1	D117-G				7B	1	R125	A	221	34	11D	1

ROHDE	ÄI	Datum	XY-Liste für	Sach-Nummer	Blatt
&		Date	XY-list for	Stock-Nr	Page
SCHWARZ		01.24.04.95	EE ADAPTER_F.CMD-B6..OPT.	1059.5440.01 XY	1+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R126	A	221	39	11D	1	R170	A	204	29	10D	1	R253	A	155	135	7B	2
R127	A	221	41	11D	1	R171	A	201	29	11D	1	R254	A	163	128	8C	2
R128	A	221	44	11D	1	R172	A	199	29	11D	1	R260	A	123	87	3A	2
R129	A	221	46	11D	1	R173	A	196	29	11D	1	R270	A	122	130	10D	2
R130	A	221	51	11D	1	R174	A	194	29	11D	1	R271	A	122	128	10D	2
R135	A	206	32	11E	1	R180	A	153	46	9E	1	R272	A	143	131	10D	2
R137	A	190	124	11F	1	R181	A	153	49	9E	1	R273	A	143	128	10D	2
R138	A	190	121	11E	1	R182	A	238	117	6C	1	R274	A	130	132	10D	2
R141	A	199	43	9D	1	R183	A	238	122	6B	1	R275	A	126	130	10D	2
R142	A	121	36	6D	1	R184	A	238	124	6B	1	R276	A	123	125	10C	2
R143	A	121	30	6D	1	R185	A	238	119	6B	1	R277	A	123	123	10C	2
R144	A	146	43	7E	1	R190	A	174	48	1D	1	R278	A	123	120	10C	2
R145	A	149	45	7D	1	R191	A	174	44	2D	1	R279	A	122	135	10C	2
R147	A	153	44	9F	1	R192	A	174	41	2D	1	R280	A	133	132	10C	2
R148	A	153	61	10F	1	R205	A	112	81	3E	2	R281	A	135	132	10C	2
R149	A	156	58	10E	1	R206	A	109	93	3E	2	R284	A	166	116	10B	2
R150	A	174	61	9B	1	R207	A	113	93	3D	2	R285	A	139	119	10B	2
R152	A	213	127	8A	1	R210	A	113	60	4B	2	R286	A	137	119	10B	2
R153	A	232	93	6A	1	R211	A	117	63	4B	2	R287	A	139	95	10B	2
R154	A	114	46	7B	1	R212	A	118	66	4B	2	R288	A	139	97	10B	2
R155	A	207	71	2B	1	R213	A	128	66	5C	2	R289	A	139	100	10B	2
R156	A	204	71	2B	1	R214	A	122	69	5B	2	R290	A	139	102	10B	2
R157	A	210	71	2A	1	R215	A	166	123	5E	2	R291	A	139	105	10B	2
R158	A	212	71	2A	1	R216	A	119	133	6E	2	R292	A	139	107	10B	2
R160	A	201	62	11B	1	R217	A	166	120	6E	2	R293	A	166	98	10B	2
R161	A	201	64	12B	1	R230	A	101	108	9D	2	R294	A	166	100	10B	2
R162	A	201	67	12B	1	R231	A	123	117	9E	2	R295	A	166	103	10B	2
R163	A	201	69	12B	1	R240	A	117	126	8D	2	R296	A	166	105	10B	2
R164	A	201	72	12B	1	R241	A	100	121	9C	2	R297	A	166	108	10B	2
R165	A	201	74	12B	1	R250	A	166	125	7C	2	R298	A	166	110	10B	2
R166	A	201	77	12B	1	R251	A	166	130	7C	2	R299	A	166	113	10B	2
R167	A	201	79	12B	1	R252	A	163	135	7B	2	V201	A	113	67	4B	2

ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		01 24.04.95	EE ADAPTER_F.CMD-B6..OPT.	1059.5440.01 XY	2-



Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	B	65	36	3E	1	D20-A	B	53	43	6D	1	R12	A	25	24	5E	1
C10	A	20	27	1A	1	D20-B				2A	1	X4A	B	66	5	3E	1
C20	A	57	36	2A	1	D30-A	B	60	58	6C	1	X4C	B	66	5	3E	1
C30	A	63	48	2A	1	D30-B				2A	1	X4D	B	66	5		
D10-A	B	20	15	3E	1	R10	A	53	24	5E	1	X10	B	34	64	8D	1
D10-B				1A	1	R11	A	28	24	5E	1						

		Datum		XY-Liste für	Sach-Nummer	Blatt
ROHDE	-01-	Date		XY-list for	Stock-Nr	Page
&						
SCHWARZ			EE IEEE_BUS			
		106.07.92			1051.7638.01 XY	1-



Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	A	7	45	1A	1	D6-A	B	30	60	4F	1	R8	B	6	45	4C	1
C2	A	23	45	2A	1	D6-B				2A	1	R9	B	20	45	4C	1
C3	A	37	46	3A	1	D7-A	B	57	54	6D	1	R11	B	62	46	6B	1
C4	A	60	46	3A	1	D7-B				5B	1	R12	A	53	20	6D	1
C11	A	33	58	2B	1	D7-C				6C	1	R13	A	52	29	6E	1
C20	B	34	59	2B	1	D7-D				5B	1	R14	A	16	29	6E	1
C21	B	35	48	7D	1	D7-E				2A	1	R15	A	53	23	5D	1
D1-A	A	66	51	3F	1	D8-A	B	39	54	5C	1	R16	B	53	46	5D	1
D1-B				1B	1	D8-B				6C	1	R17	B	65	46	5D	1
D2-A	A	37	61	3B	1	D8-C				6B	1	R18	A	65	43	7C	1
D2-B				2B	1	D8-D				6B	1	R19	B	57	46	7E	1
D3-A	A	29	51	3E	1	D8-E				3A	1	R20	A	57	26	5C	1
D3-B				2B	1	R1	A	47	46	7D	1	R21	A	57	17	6C	1
D4-A	A	14	51	3D	1	R2	A	23	33	7C	1	V1	A	40	32	4A	1
D4-B				3B	1	R4	A	46	29	5A	1	W1	B	65	69	2F	1
D5-A	B	15	60	4E	1	R6	B	27	45	4C	1	X2A	B	13	42	8E	1
D5-B				1A	1	R7	A	44	26	4B	1	X4	B	51	54	4B	1

		Datum		XY-Liste für	Sach-Nummer	Blatt
ROHDE	-01-	Date		XY-list for	Stock-Nr	Page
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SCHWARZ			ED MEMCARD_ADAPTER			
		130.09.92			1051.8228.01 XY	1-

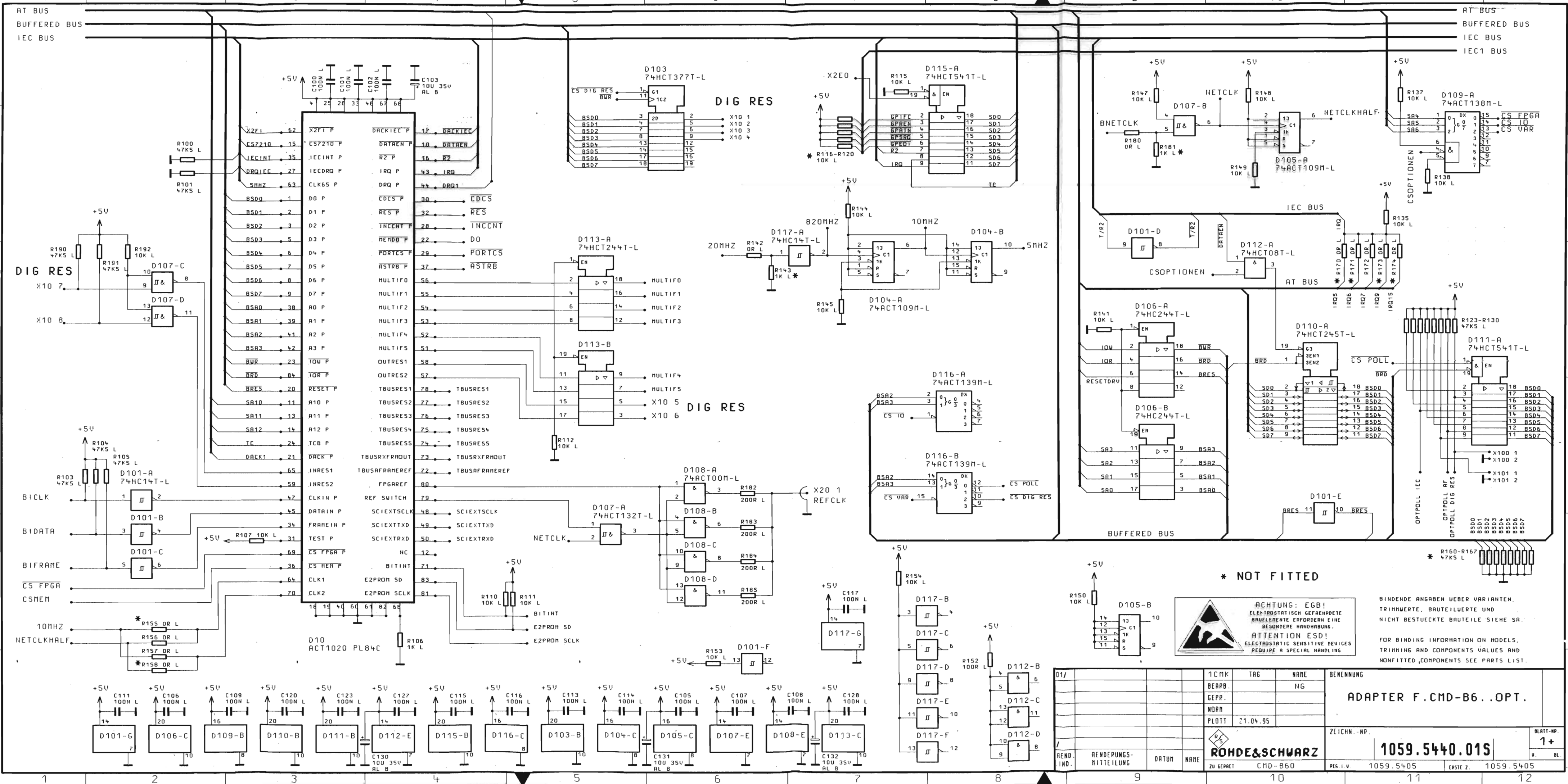


**Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants**



FÜR DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1059.5440.01S



*** NOT FITTED**

ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDLUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

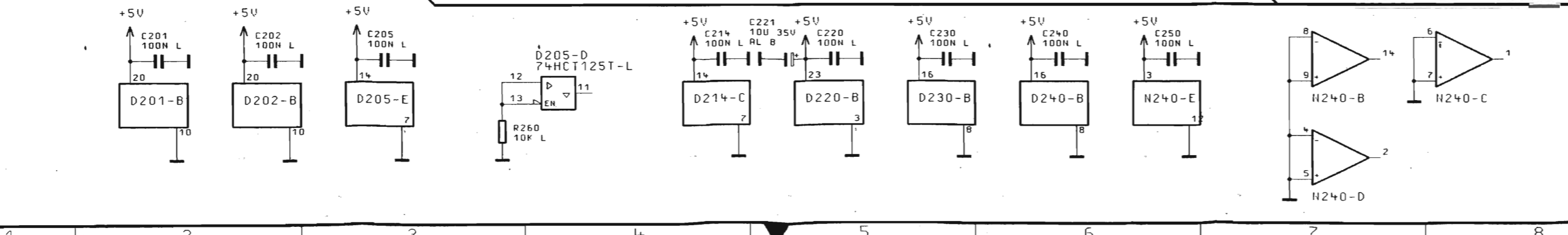
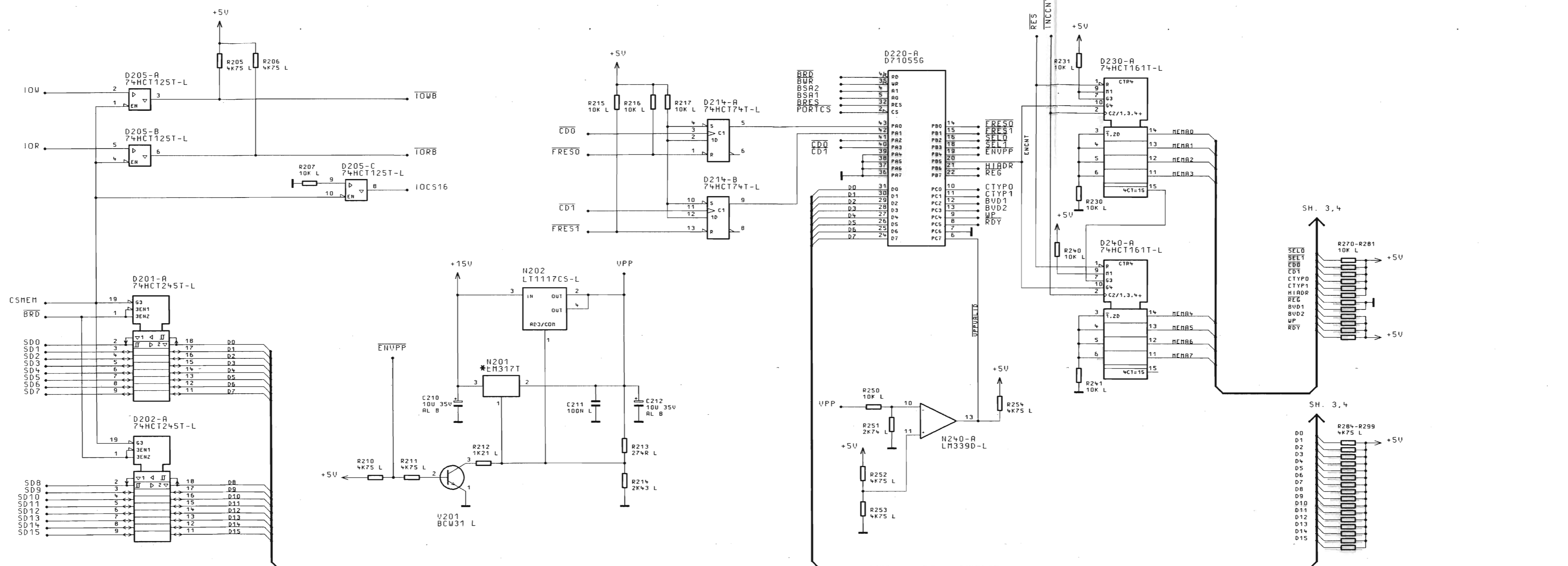
BINDENDE ANGABEN ÜBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTÜCKTE BAUTEILE SIEHE SR.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

01/		1CMK	TAG	NAME	BENENNUNG
		BEARB.		NG	
		GEPR.			
		NORN			
		PLOTT	21.04.95		
<p>ROHDE&SCHWARZ</p> <p>ZUGEPRETT CMD-B60</p>					<p>ZEICHN.-NR.</p> <p>1059.5440.01S</p>
REND. IND.	RENDUNGS-NITTEILUNG	DATUM	NAME	PEL I V	BLATT-NR. 1+
				1059.5405	1059.5405

FÜR DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1059.5440.015

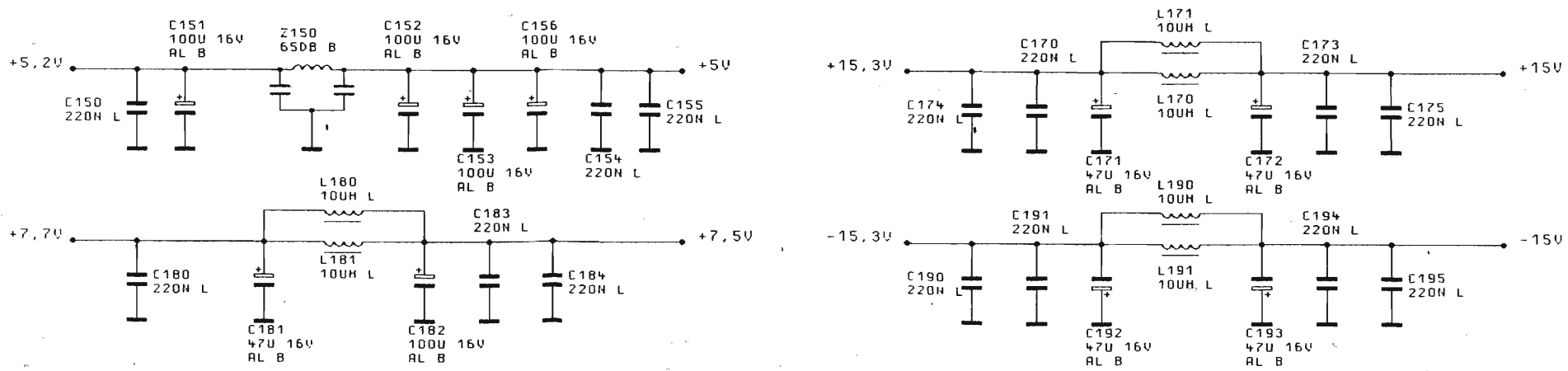


* NOT FITTED


01/				1 CMK	TAG	NAME	BENENNUNG
				BEARB.		NG	ADAPTER F.CMD-B6..OPT.
				GEPP.			
				NOPM			
				PLOTT	21.04.95		
						ZEICHN.-NR.	
				ROHDE & SCHWARZ		1059.5440.015	
REND. (ND.)	RENDERUNGS- MITTEILUNG	DATUM	NAME	ZU GEHÖRT	CMD-B60	REG. I. V.	1059.5405
						EPSTE Z.	1059.5405
						BLATT-NR.	2+
						V.	BL

CONNECTOR-DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET	COMPONENT/PIN	SIGNAL	ON SHEET	COMPONENT/PIN	SIGNAL	ON SHEET	COMPONENT/PIN	SIGNAL	ON SHEET		
TO MOTHERBOARD						TO MOTHERBOARD							
X1A 1	+5VREF		X1C 1	CDD		X2A 1	SD0	R400 -R415 OR L	X2C 1	TBUSRES2			
X1A 2			X1C 2	CDT		X2A 2			SD1	X2C 2		TBUSRES3	
X1A 3			X1C 3	CTYP0		X2A 3			SD2	X2C 3		TBUSRES4	
X1A 4			-15,3V	X1C 4		CTYP1			X2A 4	SD3		X2C 4	TBUSRES5
X1A 5			+5,2V	X1C 5		HIADR			X2A 5	SD4		X2C 5	TBUSRFRMOUT
X1A 6			+5,2V	X1C 6		REG			X2A 6	SD5		X2C 6	TBUSRFRMEREFT
X1A 7			+7,7V	X1C 7		BVD1			X2A 7	SD6		X2C 7	BD0
X1A 8				X1C 8		BVD2			X2A 8	SD7		X2C 8	BD1
X1A 9				X1C 9		UP			X2A 9	SD8		X2C 9	BD2
X1A 10			+15,3V	X1C 10		RDY			X2A 10	SD9		X2C 10	BD3
X1A 11				X1C 11		UPP			X2A 11	SD10		X2C 11	BD4
X1A 12				X1C 12		UPP			X2A 12	SD11		X2C 12	BD5
X1A 13			BNETCLK	X1C 13		CDCS			X2A 13	SD12		X2C 13	BD6
X1A 14				X1C 14		TORB			X2A 14	SD13		X2C 14	BD7
X1A 15				X1C 15		TOWB			X2A 15	SD14		X2C 15	BA0
X1A 16	BITINT	X1C 16		D0	X2A 16	SD15	X2C 16	BA1					
X1A 17		X1C 17		D1	X2A 17	RESETRV	X2C 17	BA2					
X1A 18		X1C 18		D2	X2A 18	IOV	X2C 18	BA3					
X1A 19	CS7210	X1C 19		D3	X2A 19	IOR	X2C 19	BA4					
X1A 20		X1C 20		D4	X2A 20	IOCS16 TC	X2C 20	BRD					
X1A 21		X1C 21		D5	X2A 21		X2C 21	BUR					
X1A 22	X1C 22	D6		X2A 22	X2C 22		CSRFC						
X1A 23	X2E0	X1C 23		D7	X2A 23	X2C 23	CSOPTION						
X1A 24	X2FI	X1C 24		D8	X2A 24	X2C 24	PFCINT OPTIONINT						
X1A 25	CSOPTIONEN	X1C 25		D9	X2A 25	X2C 25							
X1A 26		X1C 26		D10	X2A 26	X2C 26							
X1A 27		X1C 27		D11	X2A 27	X2C 27							
X1A 28	MULTIF0	X1C 28	D12	X2A 28	X2C 28	SC1							
X1A 29	MULTIF1	X1C 29	D13	X2A 29	X2C 29	SC2							
X1A 30	MULTIF2	X1C 30	D14	X2A 30	X2C 30	SCK							
X1A 31	MULTIF3	X1C 31	D15	X2A 31	X2C 31	SRD							
X1A 32	MULTIF4	X1C 32		X2A 32	X2C 32	STD							
X1A 32	MULTIF5												
X1A 32	20MHZ												
X1B 1	*R420 OR L					X2B 1	SA0						
X1B 2			BICLK	X2B 2		SA1							
X1B 3			BIDATA	X2B 3		SA2							
X1B 4			BIFRAME	X2B 4		SA3							
X1B 5			AFGEN	X2B 5		SA4							
X1B 6				X2B 6		SA5							
X1B 7				X2B 7		SA6							
X1B 8			AFGENGND	X2B 8		SA10							
X1B 9			AFVOLT	X2B 9									
X1B 10			AFVOLTGND	X2B 10									
X1B 11			HANDESETOUT	X2B 11		SA11							
X1B 12			AFVOLTMON	X2B 12		SA12							
X1B 13			AFGENMON	X2B 13									
X1B 14			DELTA1	X2B 14									
X1B 15			SCIEXTRXD	X2B 15									
X1B 16	SCIEXTTXD	X2B 16											
X1B 17	SCIEXTSCLK	X2B 17											
X1B 18	DRQ1	X2B 18											
X1B 19	DACK1	X2B 19											
X1B 20	ASTRB	X2B 20											
X1B 21		X2B 21											
X1B 22		X2B 22											
X1B 23	MEMA0	X2B 23	IRQ5										
X1B 24	MEMA1	X2B 24	IRQ6										
X1B 25	MEMA2	X2B 25	IRQ7										
X1B 26	MEMA3	X2B 26	IRQ9										
X1B 27	MEMA4	X2B 27											
X1B 28	MEMA5	X2B 28	TBUSRES1										
X1B 29	MEMA6	X2B 29											
X1B 30	MEMA7	X2B 30											
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X1B 32	SEL1	X2B 32	IRQ15										



* NOT FITTED

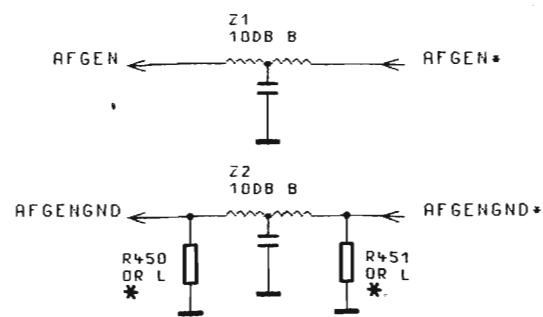
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						ZEICHN.-NR.	BLATT-NR.
						1059.5440.01S	3+
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME	ZU GEHÖRT	CMD-B60	PEG.I.U.	1059.5405
						EPSTE Z.	1059.5405

FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1059.5440.01S

CONNECTOR-DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET		COMPONENT/PIN	SIGNAL	ON SHEET		COMPONENT/PIN	SIGNAL	ON SHEET	
TO IEEE BUS OPTION CMD - B61				TO OPTION ...							
X4A 1	→			X3 1	←			X5 1	→		
X4A 2	→ +5V			X3 2	← +5V			X5 2	→ B00		
X4A 3	→ BRES			X3 3	←			X5 3	→ B20MHZ		
X4A 4	→ DACKTEC			X3 4	←			X5 4	→ BD1		
X4A 5	→ BRD			X3 5	← +15V			X5 5	→ 10MHZ		
X4A 6	→ SA10			X3 6	← +7,5V			X5 6	→ BD2		
X4A 7	→ SA12			X3 7	← -15V			X5 7	→ BRES		
X4A 8	→ BSD1			X3 8	←			X5 8	→ BD3		
X4A 9	→ BSD3			X6 1	←			X5 9	→ E2PROM SCLK		
X4A 10	→ BSD5			X6 2	← SC0			X5 10	→ BD4		
X4A 11	→ BSD7			X6 3	← SC1			X5 11	→ E2PROM SD		
X4A 12	→ IECINT			X6 4	→ SC2			X5 12	→ BD5		
X4A 13	→ T/R2			X6 5	→ SCK			X5 13	→ PFCINT		
X4A 14	→ GPATN			X6 6	→ SRD			X5 14	→ BD6		
X4A 15	→ GPSRQ			X6 7	← STD			X5 15	→ OPTIONINT		
X4A 16	→ GPIFC			X6 8	←			X5 16	→ BD7		
X4C 1	←			X7 1	→ +5VREF			X5 17	←		
X4C 2	→ +5V			X7 2	•			X5 18	← BRD		
X4C 3	→ 5MHZ			X7 3	→ AFGEN*			X5 19	→ NETCLK		
X4C 4	→ CS7210			X7 4	→ AFGENGND*			X5 20	← BWR		
X4C 5	→ BUR			X7 5	←			X5 21	→ BA0		
X4C 6	→ SA11			X7 6	← HANDSETOUT			X5 22	← CSOPTION		
X4C 7	→ BSD0			X7 7	→ AFGVOLTMON			X5 23	→ BA1		
X4C 8	→ BSD2			X7 8	←			X5 24	← CSPFC		
X4C 9	→ BSD4			X8 1	← AFGVOLT			X5 25	→ BA2		
X4C 10	→ BSD6			X8 2	→ AFGVOLTGND			X5 26	→ OPTPOLL AF		
X4C 11	→ DRQIEC			X8 3	←			X5 27	→ BA3		
X4C 12	→ T/R2			X8 4	→ DELTA1			X5 28	←		
X4C 13	→ RZ			X8 5	←			X5 29	→ BA4		
X4C 14	→ GPEOT			X8 6	•			X5 30	•		
X4C 15	→ GPREN			X8 7	←			X5 31	←		
X4C 16	→ OPTPOLL IEC			X8 8	→ AFGEMON			X5 32	•		



* NOT FITTED

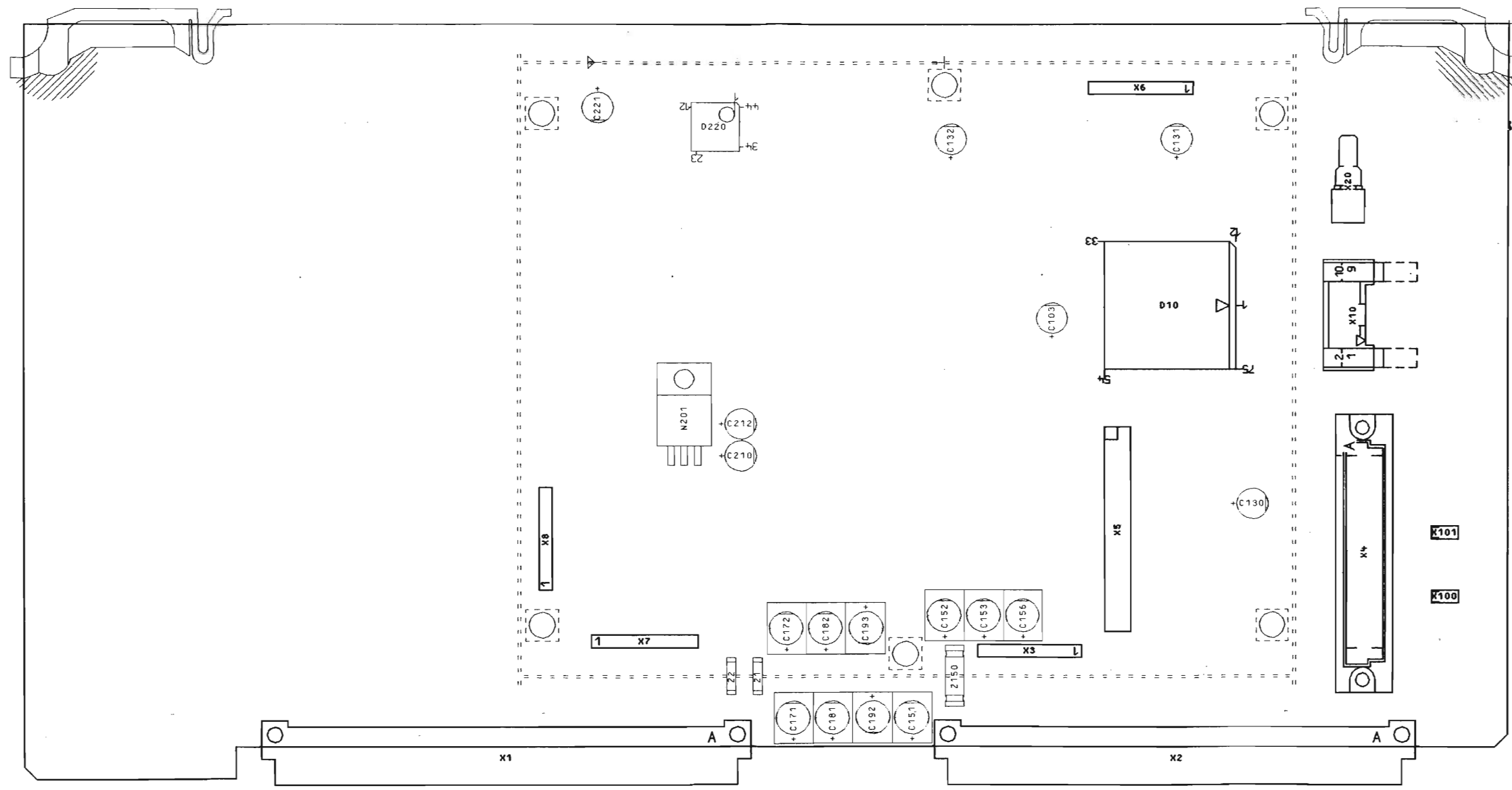
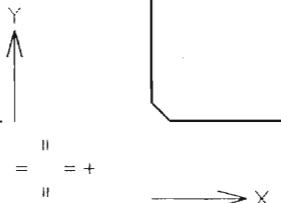
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							ZEICHN.-NR.
ROHDE & SCHWARZ							1059.5440.01S
REND. IND.	ÄNDERUNGS-NITTEILUNG	DATUM	NAME	ZU GEHÖRT		CMD-B60	PEG. I. V. 1059.5405
						ERSTE Z.	1059.5405
							BLATT-NR. 4+

FÜR DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1059.5440.01S

FÜR DIESE ZEICHNUNG BEHALTEN SICH UNS OBLIG. RECHTE VOR.
DIESE ZEICHNUNG IST EIN TECHNISCHES DOKUMENT. VERÄNDERUNGEN SIND DURCH WECHSELN DES DATENSATZES ERFOLGEND.

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DARSTELLUNG SEITE B
VIEW ON SIDE B

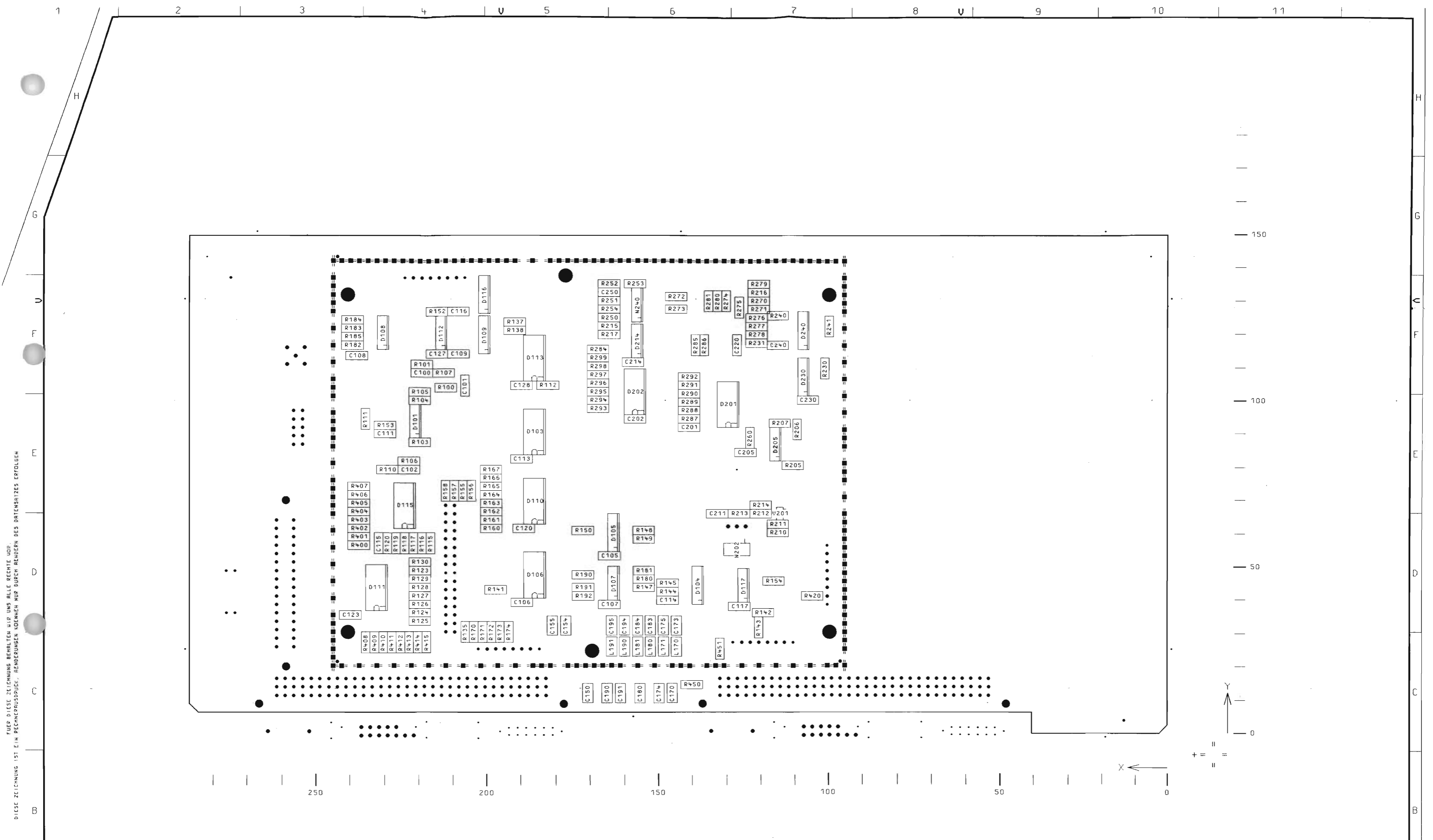


ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDENE
BAUKOMponentEN ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN ÜBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.

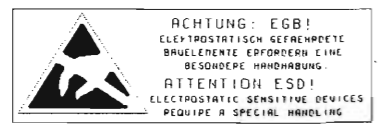
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

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				GEPR.					
				NORM					
				PLOTT	14.12.95				
02/	S1573	11.95	NG	ROHDE&SCHWARZ			ZEICHN.-NR.	1059.5440.01	EE
REND IND.	RENDPUNGS- MITTEILUNG	DATUM	NAMEN	ZU GENUTZ	CMO-B60	REG. I. N.	1059.5405		



FÜR DIESE ZEICHNUNG BEHALTEN SICH ALLE RECHTE VOR.
 DIESE ZEICHNUNG IST EIN RECHNERDRUCK. BEWERTUNGEN SIND DURCH REINIGEN DES DATENSATZES ERFOLEH.

DARSTELLUNG SEITE A
VIEW ON SIDE A

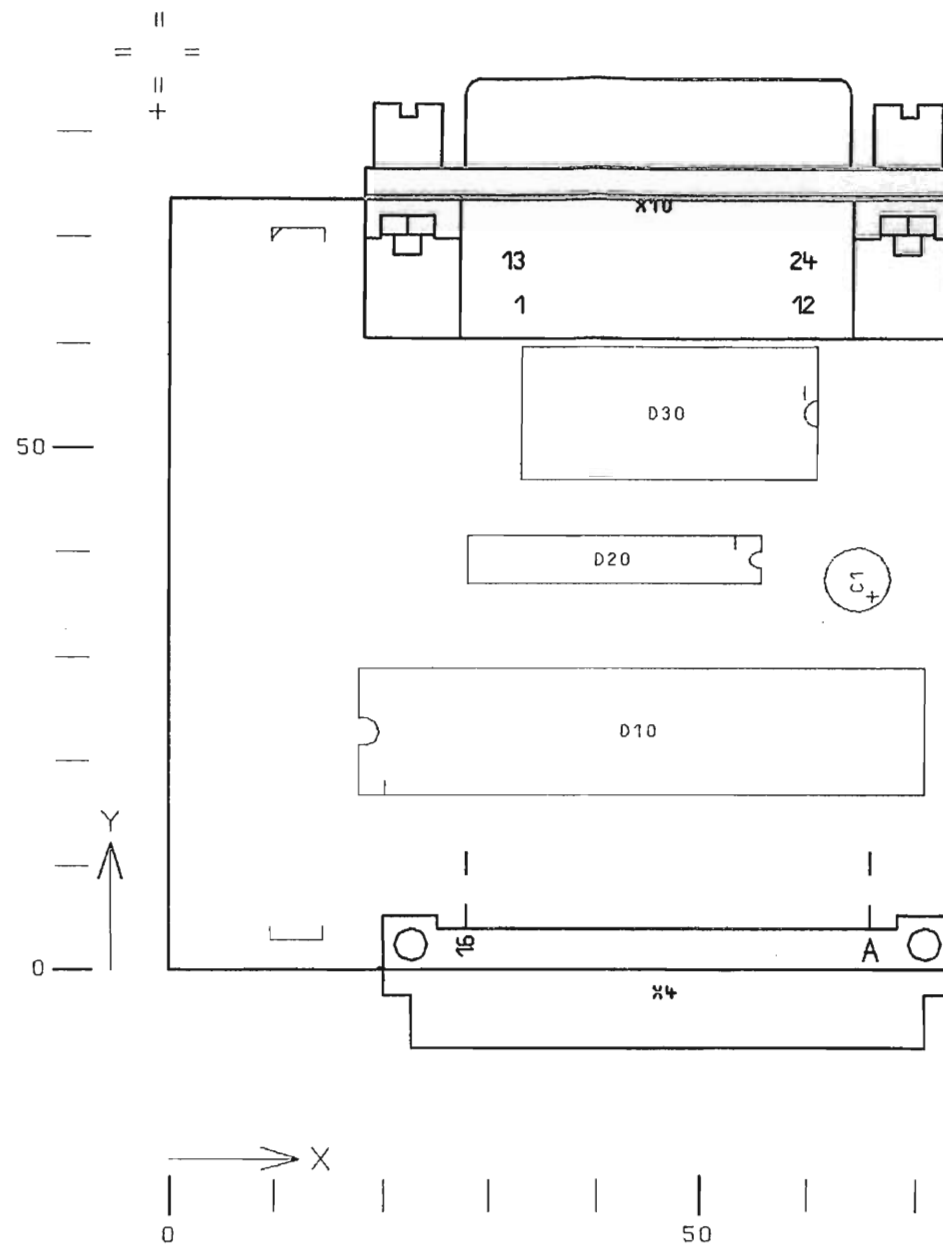


ACHTUNG: ESB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
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BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTÜCKTE BAUTEILE SIEHE SA.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

D1/				1 CMK	TAG	NAME	BENENNUNG	
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				NOBR				
				PLOTT	24.04.95			
						ZEICHN.-NR.		BEATT-NR.
			1059.5440.01			EE	2-	
REND.	RENDUNGS-	DATUM	NAME	ROHDE & SCHWARZ		ZU GERÄT		
IND.	NITTEILUNG			CMD-B60		RES. I. V.	1059.5405	ERSIC. Z.
							1059.5405	

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE
 DIESE ZEICHNUNG IST RECHNERAUSDRUCK, ÄNDERUNGEN KÖNNEN NUR DURCH REN. DES DATENSATZES ERFOLGEN



DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

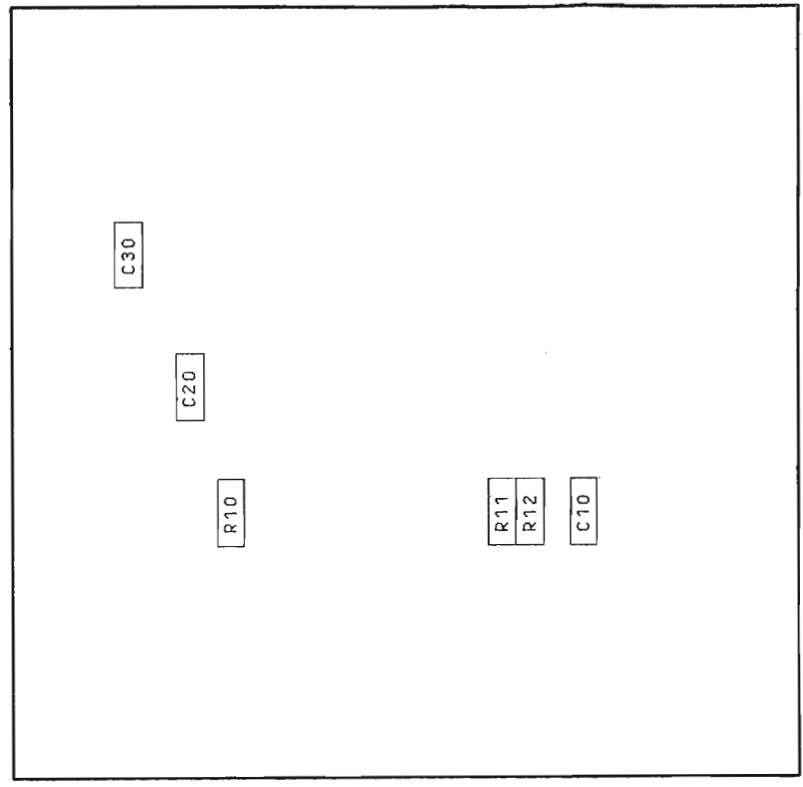
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FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 UNFITTED COMPONENTS SEE PARTS LIST.

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				GEPR.		GL			
				NORM					
				PLOTT	08.D7.92				
				ROHDE & SCHWARZ			ZEICHN.-NR.	1051.7638.01 EE	BLATT-NR.
							ZU GERÄT		CMD-B61
REND. IND.	RENDERUNGS-NITTEILUNG	DATUM	NAME						1+

ÜBER DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE
 DIESE ZEICHNUNG IST KEIN RECHNERAUSDRUCK, ÄNDERUNGEN KÖNNEN NUR DURCH RENOVATION DES DATENSATZES ERFOLGEN

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DARSTELLUNG SEITE A
VIEW ON SIDE A



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 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
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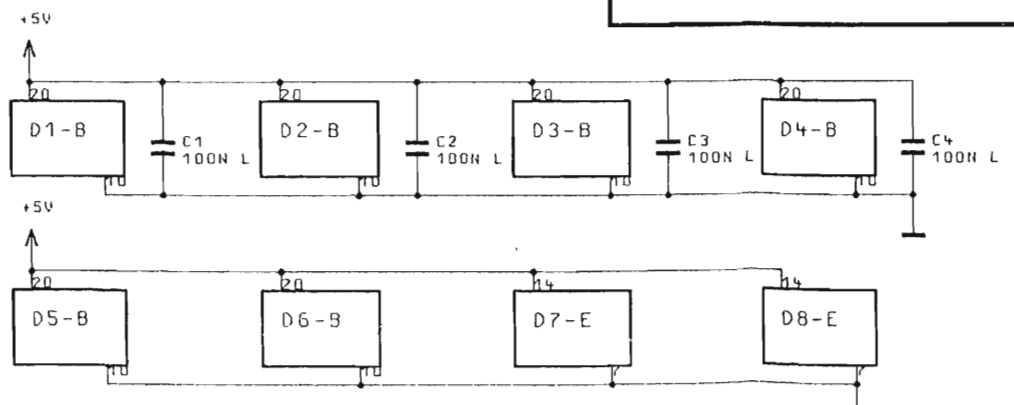
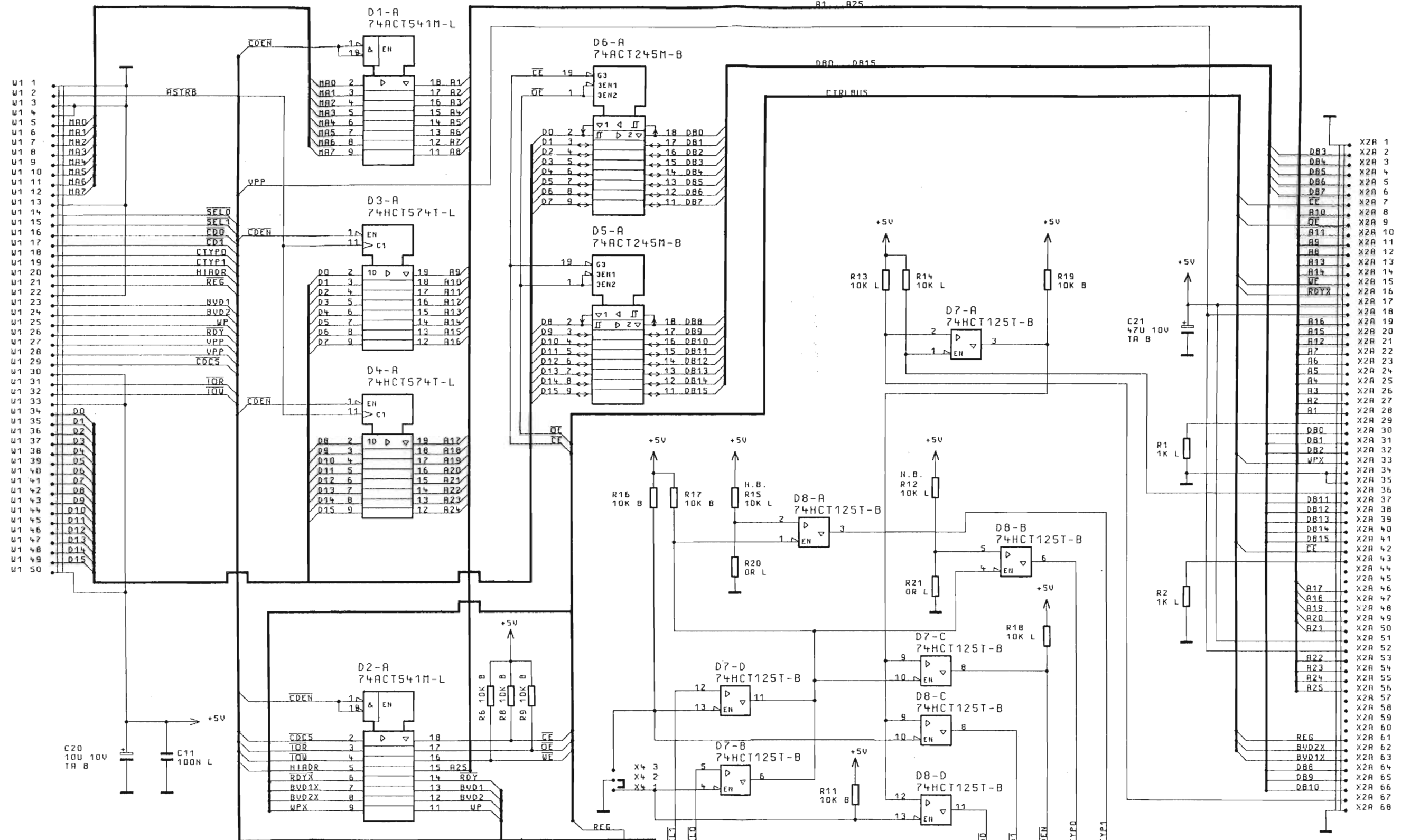
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 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

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				GEPR.		GL			
				NORM					
				PLOTT	08.07.92				
RENOV. IND.	ÄNDERUNGS- MITTEILUNG	DATUM	NAME	 ROHDE & SCHWARZ		ZEICHN.-NR.		BLATT-NR.	
						ZU GEHÖRT	CMD-B61	REG. I. U.	1051.7609
							1051.7638.01	EE	2-
									U. BL.

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FUEP DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.



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ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
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STROMLAUF GILT FÜR VAR.02/04
CIRCUIT DIAGRAM IS VALID FOR MOD.02/04

01/00		1CMK	TAG	NAM	BENENNUNG
BEARB.				GL	MEMCARD ADAPTER
GEPR.				GL	
NORM					
PLOTT	30.09.92				
REND. IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAM	ROHDE & SCHWARZ ZEICHN.-NR. 1051.8228.015 REG.-I.V. 1051.8205 ERSTE Z. 1051.8205	

TO MEMORYCARD

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE
 DIESE ZEICHNUNG IST RECHNEPRÜSDÜCK, REBERPUNGEN KOENNEN NUR DURCH RECHNEN
 DES DATENSATZES ERFOLGEN

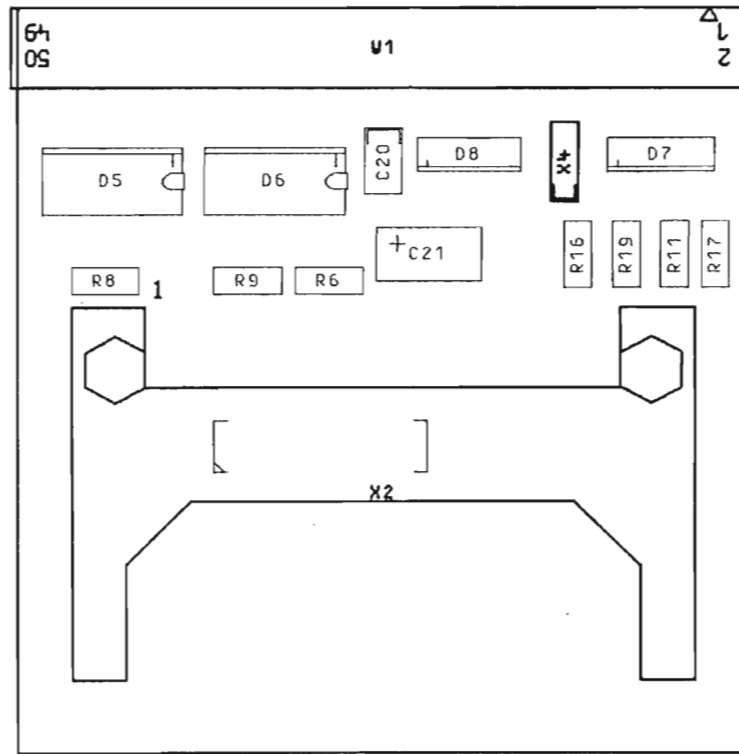
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DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

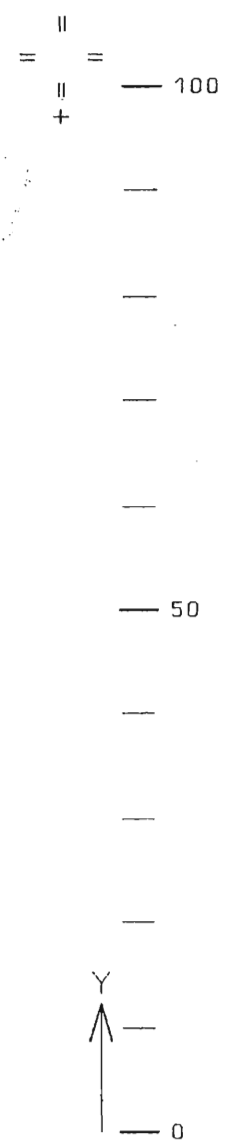
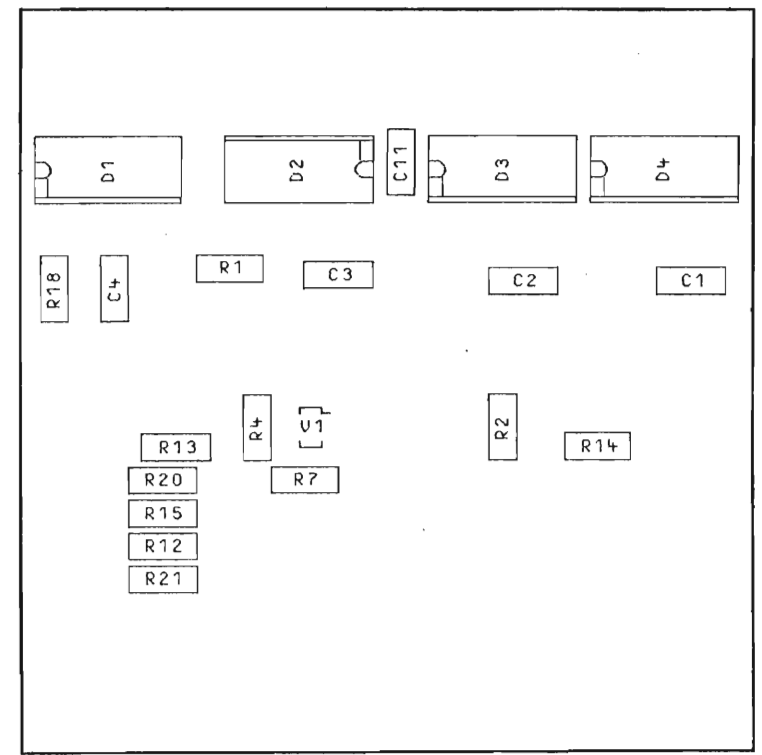
BINDENDE ANGABEN UEBER VARIANTEN,
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FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

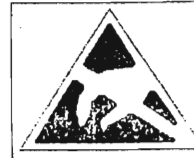
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				NORN				
				PLOTT	30.09.92			
REND. IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE & SCHWARZ		ZEICHN.-NR. 1051.8228.01 ED		PLATT-NR. 1+
				ZU GERÄT	CMD	REG. I. V.	1051.8205	ERSTE Z.
							1051.8205	

1 2 3 4 5 6 7 8

FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE
 RECHNERAUSDRUCK, VERÄNDERUNGEN KÖNNEN NUR DURCH PEN
 DES DATENSATZES ERFOLGEN
 DIESE ZEICHNUNG IST



DARSTELLUNG SEITE A
VIEW ON SIDE A



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BINDENDE ANGABEN ÜBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
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 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST.

01/00				1 CMK	TAG	NAME	BENENNUNG		
				BEARB.		GL	MEMCARD ADAPTER	Z	
				GEPR.		GL			
				NORR					
				PLOTT	30.09.92				
REND. IND.	ÄNDERUNGS- MITTEILUNG	DATUM	NAMEN	ROHDE & SCHWARZ		ZEICHN.-NR.	1051.8228.01	ED	
				ZU GERÄT	CMD	REG. I.V.	1051.8205	ERSIE Z.	1051.8205

Power Supply Unit IN 1039.1304.00

This module is a sub-supplied part. Thus the documentation does not contain the usual R&S identifications. In the case of complaint, we recommend to replace it by a new module or an exchange module.

Order designation:	New part:	IN 1039.1304.00
	Exchange part:	IN 1039.1304.98

Documents of the manufacturer are attached to our documentation.

Repair work at the module may only be executed by trained staff, observing the safety standards applying to works at electronic circuits.

In order to avoid the destruction of ICs due to static charge, antistatic methods (ESD measures) always have to be observed.

In the case of repair down to component level, only original parts may be used. The use of non-original components or the inappropriate execution of repair work might violate safety provisions and lead to liability claims to be refused.

Spare components can be ordered from the parts list with reference to the designation of the power supply unit IN 1039 1304.00 and mentioning the part designation.

Modules and parts can be obtained directly via the appropriate R&S representative or via Rohde & Schwarz, Zentralservice München.

Address:	Rohde & Schwarz GmbH & Co. KG Zentralservice 3MSL Muhldorfstr. 15 81614 München
----------	--

Tel	0049-89-41 29 28 60
Fax	0049-89-41 29 33 06

09/16/93/3MS



Contents

7.	Checking and Repair of the Module	5
7.1.	Function Description	5
7.1.1	Overview	5
7.1.2	Auxiliary and Standby Circuit	5
7.1.3	Primary Power Unit	6
7.1.4	Primary Control	6
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7.1.7	Current Limiting / Overvoltage Protection	7
7.1.8	Secondary Logic	8
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Annex:

Part lists

Circuit diagrams

Component location plans



7. Checking and Repair of the Module

7.1. Function Description

7.1.1 Overview

The rectified, filtered AC supply voltage is down-converted to an intermediate voltage of approx. 140 V using a pulse controller. This intermediate voltage is subsequently chopped by a push-pull stage and applied to the main transformer T1, the secondary windings of which generate 7 out of 8 output voltages by means of series regulators and switching regulators. The standby voltage as well as the internal auxiliary voltages are derived from a separate transformer clocked on the primary side.

The instrument is automatically set to the AC supply voltage value (115/230 V). A filter for suppression of conducted interference is provided at the input. Reliable isolation is achieved by using transformers for power conversion and VDE optocouplers for signal conversion.

The outputs of the secondary circuit are protected against overload and overvoltage. Cooling of the instrument is provided by a thermostat-controlled fan, which achieves its maximum speed only at high ambient temperatures.

7.1.2 Auxiliary and Standby Circuit

The standby transformer is directly operated from the rectified AC supply voltage, i.e. it is in operation as long as the AC supply voltage is applied and the power switch is switched on. The transformer operates in a freely oscillating mode. The oscillations are generated by the components arranged around switching transistor V116 and standby transformer T2. The control is performed by operational amplifier N17 following rectification and filtering of the voltage UH1 from the secondary winding N4 of the standby transformer. UH1 is adjusted to 12.8 V.

The remaining two output windings of T2 are used to generate the internal auxiliary voltages UH4 (+12.8 V, primary) as well as UH3 (+30 V, secondary) by means of rectification and using small series regulators. The +12.8-V auxiliary voltage of the secondary winding is reduced to 12.0 V in a further series regulator (transistor V98), current-limited to approx. 1 A and output as standby voltage (output 6) at the 50-contact connector. In order to prevent the variable transistor from being overloaded in the case of current limiting, the output voltage is totally cut off for approx. 2 seconds in the case of overload.

7.1.3 Primary Power Unit

After the preliminary filter with L32 and C29, the AC supply voltage is taken via a power resistor R75 (for inrush current limiting) to rectifier V45 and is subsequently buffered in the electrolytic capacitors C31, C32, C23. A further filter with L2, C22, C33, L28 and C95 is connected between rectifier and electrolytic capacitors. The DC voltage is applied from the electrolytic capacitors to the pulse controller consisting of transistor V28, choke L1 and commutation diode V64. The switching frequency of the pulse controller of approx. 70 kHz is produced by means of comparator N15. The output voltage is proportional to the pulse duty factor of the signal applied to the switching transistor. The pulse duty factor is set by the main regulator via optocoupler U4 and current comparator N15 depending on the output power and input voltage. The maximum power of the pulse controller is determined by the highest possible pulse duty factor and lies at approx. 300 W. The resulting intermediate voltage (output voltage of the pulse controller) of approx. 140 V is chopped by means of a half-bridge and applied to the primary winding N1 of main transformer T1. Transistors V131, V132 of the bridge are also supplied with 70 kHz via control transformer T3. The main control loop described here is closed by regulator N18, which maintains the secondary voltage of winding N2/N3 of the main transformer UGR+16 at a constant voltage of 15.8 V. Using the optocoupler U2, the pulse controller is switched off in standby mode; the same is achieved by the signal WSP from the primary control in the case of undervoltage.

7.1.4 Primary Control

The primary control generates the sequence of functions when the power supply unit is switched on. After the AC supply voltage has been applied, the auxiliary voltage UH4 must first increase to approx. 10 V so that the further control is enabled by the auxiliary voltage monitoring circuit with transistors V22, V23. Then the AC supply voltage value is evaluated by comparator N1. If the AC supply voltage value has not yet reached the 230-V range after approx. 100 ms (R8, C6, C7 at N1), relay K1 switches in order to achieve doubling of the voltage by cascading the input electrolytic capacitors C31, C32. If the AC supply voltage reaches the 230-V range within 100 ms, N1 remains locked in. Thus, relay K1 remains dropped out, avoiding that the 155-V mode is selected again when the AC supply voltage fails, which would involve a high current inrush.

After the voltage at the input electrolytic capacitors has increased to 240 V, the undervoltage sensing circuit N2 activates a timer (N1, C4, R8, R9) which first short-circuits the resistor R75 for inrush current limiting via K2 and then enables the main transformer via the control signal WSP. The undervoltage sensing device N2 is provided with a hysteresis so that the main transformer is only disabled again when the rectified AC supply voltage has fallen below 160 V.

When the rectified AC supply voltage decreases, N2 informs the evaluation circuit for the ACFAIL signal in the secondary circuit via optocoupler U3.

7.1.5 Secondary Power Unit

The voltages provided by the primary power unit at the secondary windings of the main transformer are separately rectified and filtered. The windings N2/N3 deliver the high-end voltages UGR+16 for +15.3V, UGR+8 for +7.7V and UGR-16 for -15.3V. N4/N5 provides UGR+13 for +12 V, N6 provides the high-end voltage for -30 V and N7 UGR38 for the switching regulator of the 24.5/30 V. These voltages are all rectified and filtered before being applied to the subsequent regulators.

The voltages for the outputs +15.3 V, -15.3 V, +12 V and -30 V are subsequently stabilized by series regulators. Each series regulator consists of a power MOSFET as regulating element with shunt and associated comparator for monitoring the current limiting. The 5.2-V output voltage is regulated by a switching regulator from the UGR+16, the switching frequency of which is synchronized with that of the main transformer.

The output voltage 24.5 V/30 V is generated on a separate module by a freely oscillating switching regulator. The output voltage of this regulator can be set by external connection of the signal COD at the output connector of the power supply, the voltage divider of the variable operational amplifier N3 being switched over. COD open: 24.5 V, COD connected to GND: 30 V.

The output voltage 2 (7.7 V) is not regulated, since only low requirements are placed on stability.

7.1.6 Reference Voltages

All regulators are provided with a common reference voltage REF1 of +5.2 V, which is generated by means of the integrated voltage regulator N18 and adjusted using potentiometer R209. For the regulators of the negative output voltages, a reference with half the value, i.e. +2.6 V (REF3) is additionally obtained from REF1 by voltage division. The reference voltage of +4.94 V (REF5) required for monitoring the +5.2 V with respect to undervoltage is formed by N19 and adjusted by means of R223.

7.1.7 Current Limiting / Overvoltage Protection

The so-called IREG signal constitutes the core of current limiting and overvoltage protection. This signal directly acts on the main regulator, reducing or disabling the total output power of the power supply by increasing the level; this is not true for the standby voltage. The IREG signal combines the outputs of the individual current limitations and overvoltage detectors.

- Current limiting:

The regulators of the output voltages +5.2 V and 24.5/30 V are provided with an independent current limiting facility each that features a constant-current characteristic in the case of overload.

The response of the standby voltage to current limiting is described in the respective section.

The remaining outputs are separately monitored with respect to overcurrent. For this purpose, the voltage dropping across a shunt in the respective current path is compared with a reference voltage by a comparator. If the output current exceeds the predetermined value, the comparator is activated, applying the IREG signal to high potential and thus reducing the power of the main transformer.

- Overvoltage protection:

In order to avoid damage to the loads in the case of accidental short-circuits between the output voltages, the main transformer is deactivated in the case of overvoltage at the outputs.

To this end, the output voltages +7.7 V, +15.3 V, 24.5/30 V, -15.3 V and +12 V are each applied via zener diodes to a common load resistance R221 and grounded. Overvoltage at an output causes a current flow in the appropriate zener diode and thus a voltage drop across R221. As a result of this, comparator N16 switches the IREG signal to high, disabling the main transformer. See also hiccup mode. The -30-V output is not monitored. In the case of overvoltage at 5.2 V, a thyristor is triggered, short-circuiting the output voltage.

In order to prevent rising of the output voltages in the case of internal faults, the secondary voltage UGR+16 of the main control loop is separately monitored by comparator N25 and the main transformer deactivated when 17 V are exceeded.

- Hiccup mode:

In order to protect the internal circuit and the connected loads from high continuous load due to overcurrent/overvoltage, a timer N26 is started when the IREG signal responds, disabling the main transformer for a few seconds. Thus the output power is maintained at acceptable values on average in the case of continuous disturbance. See also 1.8 Secondary Logic.

7.1.8 Secondary Logic

- Standby switch:

The multiple RC connection at the input of STANDBY/ON, D2 permits to connect power switches and signal switches and is used for debouncing the switch. The switch position is signalled to the primary side via optocoupler U2 and directly acts on the main transformer and the fan.

- ACFAIL# and SYSRESET#:

The NAND gates consisting of D3 generate the signals ACFAIL# and SYSRESET#.

ACFAIL# goes logic high after switching on of the power supply as soon as the 5.2-V output voltage has achieved 4.94 V and the 15.3-V output voltage has increased to 14.5 V. On power failure, ACFAIL# is set to logic low by the primary control via optocoupler U3.

When the power supply unit is switched on, SYSRESET# is delayed by approx. 300 ms by the RC section R324, C108 compared with ACFAIL#. On power failure, SYSRESET# is set to logic low as soon as the 5.2-V voltage has decreased to 4.94 V.

- Hickup mode:

The hickup mode mentioned in connection with current limiting includes the following functions:

When the unit is switched on, the main transformer is first enabled by timer N26 via optocoupler U2. If the +15.3-V output voltage has not yet increased to 14.5 V after 2 seconds, the main transformer is disabled for 6 seconds and subsequently enabled again for a new cycle. In the case of current limiting or overvoltage, the +15.3-V output voltage collapses to values below 14.5 V, and the same process is released.

7.1.9 Miscellaneous

The NTC R248 controls the fan speed via V143 depending on the temperature inside the instrument. At temperatures below 50°C, the fan is operated with approx. 7 V, this voltage increases to maximally 10 V at temperatures up to 60° and then remains constant. Using the NTC R184, an overtemperature protection has been implemented that deactivates the main transformer at more than 75°C.

7.2 Measuring Instruments and Auxiliary Equipment

Variable isolating transformer with at least 500 VA,
Laboratory power supply with DC voltage output 0 to 40 V,
DC voltmeter (digital multimeter).

7.3 Troubleshooting

- Note:

Repair work on the open instrument may only be carried by trained personnel. An isolating transformer must be used for current supply. Note that the circuit includes live parts and that, due to charged electrolytic capacitors, the input section carries dangerous contact voltages for approx. another 2 minutes even after the current supply has been interrupted!

To facilitate troubleshooting, the output voltages of the power supply should be monitored using digital voltmeters. The description of the causes of faults in most cases indicates several possible faults of components which may be responsible for the respective error symptom. Check these components and replace, if necessary, using the types of components indicated in the part lists.

Fault: Input fuse is blown when AC supply voltage is applied.
Causes:

- Switching transistor V28 of pulse controller faulty,
- Free-running diode V64 faulty,
- Diode V63 faulty,
- Rectifier V45 faulty.

Fault: no output voltage, fan does not run.
Causes:

- Fusing resistor R211 faulty,
- Switching transistor V116 of standby transformer faulty.

Fault: Only standby voltage provided.
Causes:

- Open circuit in the lead from the standby switch,
- Open or short circuit in the signal path from the terminal of the standby switch via the debouncing circuit preceding D2, via optocoupler U2 to the pulse controller,
- Level of WSP signal in the pulse controller is 0 V: Fault in the primary logic,
- Level of IREG signal exceeds 0 V: Find the source, see fault output voltages in hickup mode.

Fault: output voltages in hickup mode.
Causes:

- Fault in current limiting or overvoltage protection circuit. All feeding comparators are decoupled from each other via diodes and can therefore be investigated separately. The comparators of the current limitation of the analog regulators are the main possible causes; they are listed in the following:

+15.3V : N22 pin 1,
+7.7V : N17 pin 1,
-30V : N21 pin 1,
-15.3V : N20 pin 7,
+12V : N14 pin 7,
Overvoltage: N16 pin 7.

- A faulty function of the current comparators may be due to an open circuit in the shunt or a faulty resistor in the voltage divider at the input of the comparator.
- A faulty function due to overvoltage sensing can be caused by a short circuit in the variable transistor or a faulty resistor in the regulator voltage divider.

Fault: Missing output voltage.

Causes:

- Open circuit in the winding of the transformer,
- Faulty rectifier diodes,
- Faulty series regulator transistors,
- Open circuit in shunt,
- Faulty resistor in regulator voltage divider.

7.4 Putting into Operation

The AC supply voltage is delivered via a variable transformer. Increase the voltage to 110 V, the instrument is activated. Use R209 to set the output voltage 1 to 5.20 V on the instrument without load connected. Use R223 to set the voltage at pin 1 of the 50-contact connector to 4.94 V. Increase the AC supply voltage to 230 V, instrument switches over to 230-V operation (switching of internal relay can be heard) and continues running. All output voltages must then be provided according to the description of the external interfaces. To check proper functioning of the overvoltage protection, an overvoltage is simulated from outside using a laboratory power supply with the instrument running. The involved voltages are +5.2 V, +7.7 V, +15.3 V, -15.3 V, +12 V and 24.5/30 V. For this purpose, apply a voltage that is approx. 25% above the rated value to the respective output, the power supply must shut down immediately.

7.5 Disassembly and Assembly

Disassembly:

Loosen 6 screws on the circumference of the cover, pull off the cover towards the rear.

Loosen 4 screws at the front of the instrument, remove the connector of the fan terminal and of the connection from the power terminal to the printed circuit board.

The major test points are then accessible.

Assembly:

Check that the printed circuit boards are properly insulated. For the assembly, proceed in the reverse order.

7.6 External Interfaces via the 50-contact SUB-D Connector

PIN No.	Designation	Input/Output	Remark
1	REF3	O	Internal reference 2.6V
17	STANDBY/ON	I	Activating input LOW (GND) = NT on
33	SYSRESET#	O	System reset, HCT level
50	ACFAIL#	O	NMI Interrupt, HCT level
16	COD	I	24.5/30V switchover, open: 24.5V, Connection to GND: 30V
32	-	-	vacant
49	TSENSE	A	Temperature sensor output 100kohm NTC against GND
31	+12V STANDBY	O	11.65 .. 12.35VDC / 0.4A
48	-30V	O	-31 .. -29VDC / 0.1A
15	GND	-	Ground of power supply
30, 47	+12V	O	11.65 .. 12.35VDC / 2A
13, 14	GND	-	Ground of power supply
12, 28	-15.3V	A	-15.75 .. -14.85VDC / 2.6A
29, 46	GND	-	Ground of power supply
7, 8, 9, 24, 25, 41, 42	+5.2V	A	5.15 .. 5.25VDC / 10A
10, 11, 26, 27, 43, 44, 45	GND	-	Ground of power supply
5, 22, 39	+7.7V	A	7.45 .. 7.95VDC / 3.5A
6, 23, 40	GND	-	Ground of power supply
3, 19, 36, 37	+15.3V	A	14.85 .. 15.75VDC / 5.2A
4, 20, 21, 38	GND	-	Ground of power supply
18	24.5/30V	A	23.75 .. 25.25VDC / 0.6A, or 29 .. 31VDC / 0.5A
2	GND	-	Ground of power supply
34, 35	-	-	Test pins, not connected



ROHDE & SCHWARZ

Schalteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.21*.00-01	C	6	CE-120U/16V-64	E5_v	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	C	7	CK-47P/1000V-70	E2_v	KERKO 47P 1000V 10% RAU	ROEDERSTEIN	CERAMIC DISC CAPACITOR RAU470KBACRA(RC,LA,LC)K OR RAU470KBACFOK
AP-238.21*.00-01	C	8	CF-1N/250V-62	D3_v	FOKO 1N 250V 20% FKS2	WIMA	POLYESTER FILM CAPACITOR FKS2 1N 250VDC/160VAC 20% TAPED
AP-238.21*.00-01	C	9	CE-120U/16V-64	E3_v	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	C	10	CK-470P/1000V-R8	E2_v	KERKO 470P 1000V 20% RAZ	ROEDERSTEIN	CERAMIC DISC CAPACITOR RAZ471MBACRA(RC,LA,LC)K OR RAZ471MBACFOK
AP-238.21*.00-01	C	11	CV-220P/63V-C1	E3_v	SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.21*.00-01	C	13	CF-1N/100V-33	E4_v	FOKO 1N 100V 2.5% KP1830	ROEDERSTEIN	POLYPROPYLENE FILM CAPACITOR KP 1830 2.5% - 210/01 3 W
AP-238.21*.00-01	C	16	CE-120U/16V-64	E4_v	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	C	22	CY-4N7/400V-95	H5_h	Y-KOPPL 4N7 400V 20% WKP	ROEDERSTEIN	CERAMIC DISC CAPACITOR CLASS Y WKP600 4N7 400V 20% - WKP472MCPEJOK
AP-238.21*.00-01	C	23	CE-220U/400V-NA	G3_v	ELKO 220U 400V 31X37 KMH	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR KMH-VN-220U/400V-M-30X35
AP-238.21*.00-01	C	24	CM-1U/100V-W7	G4_v	MEKO 1U 100V 20% MKS2-I	WIMA	METALL. POLYESTER FILM CAPACITOR MKS2-I 1U/100V 20% TAPED
AP-238.21*.00-01	C	25	CM-1U/100V-W7	F4_v	MEKO 1U 100V 20% MKS2-I	WIMA	METALL. POLYESTER FILM CAPACITOR MKS2-I 1U/100V 20% TAPED
AP-238.21*.00-01	C	28	CM-2U2/250V-50	F3_h	MEKO 2U2 250V 20% MKT1822	ROEDERSTEIN	METALL. POLYESTER FILM CAPACITOR MKT1822-522/25 6
AP-238.21*.00-01	C	33	CY-4N7/400V-95	H5_h	Y-KOPPL 4N7 400V 20% WKP	ROEDERSTEIN	CERAMIC DISC CAPACITOR CLASS Y WKP600 4N7 400V 20% - WKP472MCPEJOK
AP-238.21*.00-01	C	43	CE-1500U/25V-64	B4_h	ELKO 1500U 25V 13X31 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1500 12.5X30
AP-238.21*.00-01	C	44	CE-1500U/25V-64	A2_h	ELKO 1500U 25V 13X31 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1500 12.5X30
AP-238.21*.00-01	C	45	CE-1000U/10V-64	B3_h	ELKO 1000U 10V 10.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF10VB-1000 10X20 TPA OR WITHOUT TPA
AP-238.21*.00-01	C	52	CE-100U/50V-65	A1_h	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.21*.00-01	C	59	CE-100U/50V-65	C3_h	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.21*.00-01	C	69	CE-220U/25V-64	E5_v	ELKO 220U 25V 8.5X16 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF25VB-220 8X15 TPA3.5 OR WITHOUT TPA
AP-238.21*.00-01	C	70	CV-1N/63V-C2	E3_v	SMD-VIELKO 1N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 1NF/63V X7R 10% - 2222 581 16614
AP-238.21*.00-01	C	71	CK-2N2/500V-35	D6_h	KERKO 2N2 500V 10% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 K2000 2N2 10% 500V TAPED - 2222 655 53222
AP-238.21*.00-01	C	72	CM-100N/400V-40	D6_v	MEKO 100N 400V 20% MKT1.60	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.60 MI 3100 AA 00 M
AP-238.21*.00-01	C	73	CV-100N/63V-C2	E3_v	SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.21*.00-01	C	74	CV-470P/63V-C1	E3_v	SMD-VIELKO 470P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 470PF/63V NPO 5% - 2222 863 15471
AP-238.21*.00-01	C	75	CE-820U/16V-64	B3_h	ELKO 820U 16V 10.5X26 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 16 VB-820 10X25
AP-238.21*.00-01	C	79	CM-100N/63V-20	E5_v	MEKO 100N 63V 20% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 DC 3100 191/201 M
AP-238.21*.00-01	C	80	CV-100N/63V-C2	E3_v	SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.21*.00-01	C	81	CV-220P/63V-C1	E3_v	SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.21*.00-01	C	82	CV-47N/63V-C2	E3_v	SMD-VIELKO 47N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 47NF/63V X7R 10% - 2222 581 16636
AP-238.21*.00-01	C	83	CE-220U/35V-74	C4_h	ELKO 220U 35V 8.5X22 PL	NICHICON	ELECTROLYTIC CAPACITOR UPL1V221MPH
AP-238.21*.00-01	C	84	CE-330U/25V-64	C3_h	ELKO 330U 25V 8.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF25VB-330 8X20 TPA3.5 OR WITHOUT TPA
AP-238.21*.00-01	C	85	CV-100N/63V-C2	E3_v	SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.21*.00-01	C	86	CE-220U/35V-74	B4_h	ELKO 220U 35V 8.5X22 PL	NICHICON	ELECTROLYTIC CAPACITOR UPL1V221MPH
AP-238.21*.00-01	C	87	CE-120U/16V-64	B5_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	C	88	CE-22U/50V-30	B5_h	ELKO 22U 50V 5.5X12 RLL	PHILIPS COMPONENTS	ELECTROLYTIC CAPACITOR RLL 22U/50V - 2222 116 11229
AP-238.21*.00-01	C	89	CV-100P/63V-C1	E3_v	SMD-VIELKO 100P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100PF/63V NPO 5% - 2222 863 15101
AP-238.21*.00-01	C	90	CV-1N/63V-C2	E3_v	SMD-VIELKO 1N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 1NF/63V X7R 10% - 2222 581 16614
AP-238.21*.00-01	C	91	CV-1N/63V-C2	E3_v	SMD-VIELKO 1N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 1NF/63V X7R 10% - 2222 581 16614
AP-238.21*.00-01	C	92	CK-47P/1000V-70	B5_v	KERKO 47P 1000V 10% RAU	ROEDERSTEIN	CERAMIC DISC CAPACITOR RAU470KBACRA(RC,LA,LC)K OR RAU470KBACFOK
AP-238.21*.00-01	C	93	CV-100N/63V-C2	E3_v	SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.21*.00-01	C	94	CV-100N/63V-C2	E3_v	SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.21*.00-01	C	95	CV-10N/500V-C7	E3_v	SMD-VIELKO 10N 500V 10% X7R 1210	VITRAMON	CERAM. MULTILAYER CHIP CAPACITOR 10NF/500V X7R 10% - VJ1210Y103KXET
AP-238.21*.00-01	C	96	CV-10N/500V-C7	E3_v	SMD-VIELKO 10N 500V 10% X7R 1210	VITRAMON	CERAM. MULTILAYER CHIP CAPACITOR 10NF/500V X7R 10% - VJ1210Y103KXET
AP-238.21*.00-01	C	97	CE-120U/16V-64	B5_v	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	C	98	CE-120U/16V-64	B5_v	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.21*.00-01	D	1	D-40013BCM-C2	D1	SMD-NOR 2INP 4-FACH SO14	NATIONAL SEMICON.	QUAD 2-INPUT NOR CD40013BCM
AP-238.21*.00-01	D	2	D-4013BCM-C2	D2	SMD-D-FLIP-FLOP 2-FACH SO14	NATIONAL SEMICON.	DUAL D-FLIP-FLOP CD4013BCM
AP-238.21*.00-01	D	3	D-4013BCM-C2	D3	SMD-D-FLIP-FLOP 2-FACH SO14	NATIONAL SEMICON.	DUAL D-FLIP-FLOP CD4013BCM
AP-238.21*.00-01	E	1	AP-238.213.00-01	E1	SMDM-BLP TYP A	PULS MÜNCHEN	
AP-238.21*.00-01	E	1	AP-238.213.00-01	E1	SMDM-ALP TYP A	PULS MÜNCHEN	
AP-238.21*.00-01	E	1	EP-238.215.00-10	E1	SMDM-LP 208X131X1.6 35U 2LAG	WALTER	
AP-238.21*.00-01	E	4	ES-STEZU3-10	E4	STECKZUNGE 2.8X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 2.8X0.8 - 03785A/0.9 BZ SN OR MS SN
AP-238.21*.00-01	E	5	ES-STEZU3-10	E5	STECKZUNGE 2.8X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 2.8X0.8 - 03785A/0.8 BZ SN OR MS SN
AP-238.21*.00-01	E	16	WI-238.810.00-10	B2_h	KABEL BL 1.34QMM STEHU6 240MM ELH	MD ELEKTRONIK	
AP-238.21*.00-01	E	19	XF-212.780.00-20	B1_h	STECKER 7POL MIT KABEL UND ELH	MD ELEKTRONIK	
AP-238.21*.00-01	E	23	WI-238.820.00-10	B2_h	KABEL RT 1.34QMM STEHU6 100MM ELH	MD ELEKTRONIK	
AP-238.21*.00-01	E	28	WI-238.870.00-10	I4_h	KABEL RT 0.86QMM STEHU6 70MM ELH	MD ELEKTRONIK	
AP-238.21*.00-01	E	29	WI-238.870.01-10	I4_h	KABEL BL 0.86QMM STEHU6 70MM ELH	MD ELEKTRONIK	
AP-238.21*.00-01	F	31	HS-FM754-01	F2_h	DFAHTBRÜCKE RM25.4 DM0.52 ISOLIERT	QUICK-OHM	WIRE JUMPER INSULATED RM25.4 DM0.52 - DB052-2540G

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.21*.00-01	E	32	ES-RM254-80	F3_h	DRAHTBRÜCKE RM25.4 DM0.6 ISOLIERT	BAYKRA	WIRE JUMPER RM25.4 X SL2.9(AB BT-UK) X DM0.60 INSULATED PVC105C
AP-238.21*.00-01	E	33	AH-238.670.00-01	E6_v	KÜHLBLECH BESTÜCKT STANDBY	PULS MÜNCHEN	
AP-238.21*.00-01	E	34	ES-RM356-82	A2_v	DRAHTBRÜCKE RM35.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM35.6 X 4 X 1.00MM INSULATED
AP-238.21*.00-01	E	36	ES-RM356-82		DRAHTBRÜCKE RM35.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM35.6 X 4 X 1.00MM INSULATED
AP-238.21*.00-01	L	1	LB-33U/A5-10	D3_v	HF-DROSSEL 33UH 0A5 4X9.2 B78108	SIEMENS	HF-CHOKE 33UH 0.5A - B78108-S1333-K
AP-238.21*.00-01	L	2	LY-2X6M8/2A-10	H6_v	STROMKOMP.DR 2X6M8H 2A 31X18X33	SIEMENS	CURRENT COMPENSATED CHOKE 2X6.8MH/2A - B82724-J2202-N1
AP-238.21*.00-01	L	3	LE-238.550.00-20	G2_v	E42/15-DROSSEL 130UH 9A	EGSTON	
AP-238.21*.00-01	L	25	LB-10U/A68-10	C4_v	HF-DROSSEL 10UH 0A68 4X9.2 B78108	SIEMENS	HF-CHOKE 10UH 0.68A - B78108-S1103-K
AP-238.21*.00-01	L	26	LB-10U/A68-10	C4_v	HF-DROSSEL 10UH 0A68 4X9.2 B78108	SIEMENS	HF-CHOKE 10UH 0.68A - B78108-S1103-K
AP-238.21*.00-01	L	27	LB-10U/A68-10	B4_v	HF-DROSSEL 10UH 0A68 4X9.2 B78108	SIEMENS	HF-CHOKE 10UH 0.68A - B78108-S1103-K
AP-238.21*.00-01	L	28	LB-192.550.00-10	G4_h	STROMKOMPENSATION 192UH 7A 4X13.3	HAGN	
AP-238.21*.00-01	N	4	M-411711-11	E6_v	VOLTA REFERENCE TL431CLPRA - SELECTED UNDER 936.014.01	MOTOROLA	VOLTAGE REFERENCE TL431CLPRA - SELECTED UNDER 936.014.01
AP-238.21*.00-01	*	25	QUAD COMPARATOR LM339D				QUAD COMPARATOR LM339D
AP-238.21*.00-01	*	26	OPAMP OPERATIONAL AMPLIFIER LM358M				OPAMP OPERATIONAL AMPLIFIER LM358M
AP-238.21*.00-01	*	27	OPAMP OPERATIONAL AMPLIFIER LM358M				OPAMP OPERATIONAL AMPLIFIER LM358M
AP-238.21*.00-01	*	28	VOLTA REFERENCE TL431CLPRA - SELECTED UNDER 936.014.01				VOLTAGE REFERENCE TL431CLPRA - SELECTED UNDER 936.014.01
AP-238.21*.00-01	*	29	METAL FILM RESISTOR DINO207 1R00 1% TK100 300V 0.6W/70C TAPED				METAL FILM RESISTOR DINO207 1R00 1% TK100 300V 0.6W/70C TAPED
AP-238.21*.00-01	*	30	METAL FILM RESISTOR DINO207 4K22 1% TK50 300V 0.6W/70C TAPED				METAL FILM RESISTOR DINO207 4K22 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	*	31	METAL FILM RESISTOR DINO207 10R0 1% TK50 300V 0.6W/70C TAPED				METAL FILM RESISTOR DINO207 10R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	*	32	METAL FILM RESISTOR DINO207 249R0 1% TK50 300V 0.6W/70C TAPED				METAL FILM RESISTOR DINO207 249R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	*	33	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 20R5				METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 20R5
AP-238.21*.00-01	*	34	WIRE-WOUND RESISTOR LVR-3 0.050R 1%				WIRE-WOUND RESISTOR LVR-3 0.050R 1%
AP-238.21*.00-01	*	35	METAL FILM RESISTOR DINO207 51R1 1% TK50 300V 0.6W/70C TAPED				METAL FILM RESISTOR DINO207 51R1 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	*	36	METALOXIDE RESISTOR WK4 330R J B				METALOXIDE RESISTOR WK4 330R J B
AP-238.21*.00-01	R	37	RM-3K83-C1		SMD-METWID 3K83 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K83
AP-238.21*.00-01	R	38	RM-825K0-10	F3_h	MET.WID 825K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 825K0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	39	RM-787K0-10	F3_h	MET.WID 787K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 787K0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	40	RM-4K42-10	E3_h	MET.WID 4K42 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 4K42 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	41	RM-348R0-10	E3_v	MET.WID 348R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 348R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	42	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.21*.00-01	R	43	RM-3K83-C1		SMD-METWID 3K83 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K83
AP-238.21*.00-01	R	44	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	45	RM-14K7-C1		SMD-METWID 14K7 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 14K7
AP-238.21*.00-01	R	46	RM-1K87-C1		SMD-METWID 1K87 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K87
AP-238.21*.00-01	R	47	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	48	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	49	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.21*.00-01	R	50	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	51	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	52	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.21*.00-01	R	53	RM-22K6-C1		SMD-METWID 22K6 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 22K6
AP-238.21*.00-01	R	69	RW-OR012-D2	F4_h	WIDERST.DRAHT OR012 1.0X15.24	HÜTTLINGER	ZERO OHM RESISTOR DM1.0 RM15.24 SL=4.4 - 16633
AP-238.21*.00-01	R	70	RM-8R25-C1		SMD-METWID 8R25 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 8R25
AP-238.21*.00-01	R	71	RK-8R2-10	F4_h	KOHL.E.WID 8R2 5% 0.33W +TK200 CR25	PHILIPS COMPONENTS	CARBON FILM RESISTOR CR25 8R2 TAPED - 2322 211 73828
AP-238.21*.00-01	R	72	RM-8R25-C1		SMD-METWID 8R25 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 8R25
AP-238.21*.00-01	R	73	RW-OR012-D2	E4_v	WIDERST.DRAHT OR012 1.0X15.24	HÜTTLINGER	ZERO OHM RESISTOR DM1.0 RM15.24 SL=4.4 - 16633
AP-238.21*.00-01	R	74	RK-8R2-10	F5_h	KOHL.E.WID 8R2 5% 0.33W +TK200 CR25	PHILIPS COMPONENTS	CARBON FILM RESISTOR CR25 8R2 TAPED - 2322 211 73828
AP-238.21*.00-01	R	80	RM-1M00-C1		SMD-METWID 1M00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1M00
AP-238.21*.00-01	R	201	RM-332R0-C1		SMD-METWID 332R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 332R
AP-238.21*.00-01	R	202	RM-26K1-10	F6_h	MET.WID 26K1 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 26K1 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	203	RM-205R0-10	D4_v	MET.WID 205R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 205R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	204	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.21*.00-01	R	205	RM-1R00-10	F5_h	MET.WID 1R00 1% 0.6W TK100 300V		METAL FILM RESISTOR DINO207 1R00 1% TK100 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	206	RM-1R21-10	E5_h	MET.WID 1R21 1% 0.6W TK100 300V		METAL FILM RESISTOR DINO207 1R21 1% TK100 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	207	RM-1M5-R8	G5_h	MET.GL.WID 1M5 5% 0.25W 1600V VR25	PHILIPS COMPONENTS	METALLIZED CERAMIC RESISTOR VR25 1M5 5% TAPED - 2322 241 13155
AP-238.21*.00-01	R	208	RM-1M5-R8	G5_h	MET.GL.WID 1M5 5% 0.25W 1600V VR25	PHILIPS COMPONENTS	METALLIZED CERAMIC RESISTOR VR25 1M5 5% TAPED - 2322 241 13155
AP-238.21*.00-01	R	209	RM-1M0-R9	G5_h	MET.GL.WID 1M0 5% 0.25W 1600V VR25	PHILIPS COMPONENTS	METALLIZED CERAMIC RESISTOR VR25 1M0 5% TAPED - 2322 241 13105
AP-238.21*.00-01	R	210	RM-11K0-C1		SMD-METWID 11K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 11K0
AP-238.21*.00-02	R	211	RY-4R7-10	G5_v	DEFURWID 4R7 5% OW3 +TK200 SKS2	ROEDERSTEIN	FUSIBLE RESISTOR SKS2 4R7 5% TAPED - S5204R7JR
AP-238.21*.00-01	R	212	RM-11K0-C1		SMD-METWID 11K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 11K0

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.21*.00-01	R	213	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	214	RM-825R0-C1		SMD-METWID 825R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 825R
AP-238.21*.00-01	R	215	RM-383K0-C1		SMD-METWID 383K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 383K
AP-238.21*.00-01	R	216	RM-3K32-C1		SMD-METWID 3K32 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K32
AP-238.21*.00-01	R	217	RM-825R0-10	A5_h	MET.WID 825R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 825R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	218	RM-2K49-C1		SMD-METWID 2K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K49
AP-238.21*.00-01	R	219	RM-2K15-C1		SMD-METWID 2K15 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K15
AP-238.21*.00-01	R	220	RM-464K0-C1		SMD-METWID 464K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 464K
AP-238.21*.00-01	R	221	RM-10K5-C2		SMD-METWID 10K5 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 10K5
AP-238.21*.00-01	R	222	RM-5K23-C2		SMD-METWID 5K23 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 5K23
AP-238.21*.00-01	R	223	RM-464R0-C1		SMD-METWID 464R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 464R
AP-238.21*.00-01	R	224	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	225	RM-205R0-C1		SMD-METWID 205R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 205R
AP-238.21*.00-01	R	226	RM-14K7-C1		SMD-METWID 14K7 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 14K7
AP-238.21*.00-01	R	227	RM-16K2-C1		SMD-METWID 16K2 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 16K2
AP-238.21*.00-01	R	228	RM-11K0-C1		SMD-METWID 11K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 11K0
AP-238.21*.00-01	R	229	RM-909R0-10	B4_v	MET.WID 909R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 909R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	230	RM-274R0-10	A5_h	MET.WID 274R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 274R0 1% TK50 300V 0.6W/70C TAPED
AP-238.21*.00-01	R	231	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.21*.00-01	R	232	RM-51R1-C1		SMD-METWID 51R1 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 51R1
AP-238.21*.00-01	R	233	RM-11K0-C1		SMD-METWID 11K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 11K0
AP-238.21*.00-01	R	234	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.21*.00-01	R	235	RM-196R0-C1		SMD-METWID 196R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 196R
AP-238.21*.00-01	R	236	RM-3K65-C1		SMD-METWID 3K65 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K65
AP-238.21*.00-01	R	237	RM-1R00-C1		SMD-METWID 1R00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1R00
AP-238.21*.00-01	R	238	RM-3K65-C1		SMD-METWID 3K65 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K65
AP-238.21*.00-01	R	239	RM-3K65-C1		SMD-METWID 3K65 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K65
AP-238.21*.00-01	R	240	RM-46R4-C1		SMD-METWID 46R4 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 46R4
AP-238.21*.00-01	R	241	RM-27K4-C1		SMD-METWID 27K4 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 27K4
AP-238.21*.00-01	R	242	RM-2K49-C1		SMD-METWID 2K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K49
AP-238.21*.00-01	R	243	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.21*.00-01	R	244	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.21*.00-01	R	245	RM-46R4-C1		SMD-METWID 46R4 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 46R4
AP-238.21*.00-01	R	246	RM-205R0-C1		SMD-METWID 205R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 205R
AP-238.21*.00-01	R	247	RM-100K0-C1		SMD-METWID 100K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100K
AP-238.21*.00-01	R	248	RT-10K-20	A5_h	MESS-NTC 10K 10% OW75 K164	SIEMENS	NTC K164/10%/10K - B57164-K103-K TAPED OR UNTAPED
AP-238.21*.00-01	R	249	RM-487R0-C1		SMD-METWID 487R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 487R
AP-238.21*.00-01	R	250	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.21*.00-01	R	251	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.21*.00-01	R	252	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.21*.00-01	R	253	RM-2K37-C1		SMD-METWID 2K37 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K37
AP-238.21*.00-01	R	254	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.21*.00-01	R	255	RM-100K0-C1		SMD-METWID 100K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100K
AP-238.21*.00-01	T	1	TE-238.590.00-20	C2_v	ETD44-ÜBERTRAGER	EGSTON	
AP-238.21*.00-01	T	2	TE-238.530.00-20	C5_v	ETD24-ÜBERTRAGER (STANDBY)	EGSTON	
AP-238.21*.00-01	T	3	TE-238.590.00-20	F5_h	EF16-ÜBERTRAGER (ANSTEUERUNG)	EGSTON	
AP-238.21*.00-01	U	1	U-SFH617G2-16	C4_v	OPTOKO 5K3V 60-70%=BL 10MA 70V DIP4	SIEMENS	OPTOCOUPLER SFH617G2 - Q62703-N128-X1 - SELECTED UNDER 936.011
AP-238.21*.00-01	U	2	U-SFH617G2-16	C3_v	OPTOKO 5K3V 60-70%=BL 10MA 70V DIP4	SIEMENS	OPTOCOUPLER SFH617G2 - Q62703-N128-X1 - SELECTED UNDER 936.011
AP-238.21*.00-01	U	3	U-SFH617G2-16	C4_v	OPTOKO 5K3V 60-70%=BL 10MA 70V DIP4	SIEMENS	OPTOCOUPLER SFH617G2 - Q62703-N128-X1 - SELECTED UNDER 936.011
AP-238.21*.00-01	U	4	U-SFH617G2-16	C4_v	OPTOKO 5K3V 60-70%=BL 10MA 70V DIP4	SIEMENS	OPTOCOUPLER SFH617G2 - Q62703-N128-X1 - SELECTED UNDER 936.011
AP-238.21*.00-01	V	22	VD-BAV103-C1		SMD-DIODE 250V 0A25	SOD80	PHILIPS COMPONENTS RECTIFIER DIODE BAV103 SOD80C - 9336 993 60115 (REEL 7")
AP-238.21*.00-01	V	23	VD-BAV103-C1		SMD-DIODE 250V 0A25	SOD80	PHILIPS COMPONENTS RECTIFIER DIODE BAV103 SOD80C - 9336 993 60115 (REEL 7")
AP-238.21*.00-01	V	24	VT-FM5T591-C1		SMD-PNP-TRANS 80V 1A 0W3	SOT23	ZETEX PNP-TRANSISTOR FM5T591 SOT23 TAPED - FM5T591TA
AP-238.21*.00-01	V	25	VD-SB140-10	F5_h	SCHOTTKY 40V 1A 0V5	DO41	GENERAL INSTRUMENTS SCHOTTKY DIODE SB140 TAPED
AP-238.21*.00-01	V	26	VD-SB140-10	F5_h	SCHOTTKY 40V 1A 0V5	DO41	GENERAL INSTRUMENTS SCHOTTKY DIODE SB140 TAPED
AP-238.21*.00-01	V	27	VT-FM5T591-C1		SMD-PNP-TRANS 80V 1A 0W3	SOT23	ZETEX PNP-TRANSISTOR FM5T591 SOT23 TAPED - FM5T591TA
AP-238.21*.00-01	V	29	VM-25K1723-1F	E2_h	N-MOSFET 600V 0R65 150W CA.T0247		TOSHIBA POWER MOS-FET 25K1723
AP-238.21*.00-01	V	29	VZ-BZX79C15-10	F5_h	Z-DIODE 15V 6% W5	DO35	PHILIPS COMPONENTS RECTIFIER DIODE BZX79C15 TAPED - 9331 1783 0113
AP-238.21*.00-01	V	30	VD-LL4148-C1		SMD-DIODE 15V 0A15	4NS 0204	ITT RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.21*.00-01	V	31	VT-FM5T491-C1		SMD-PNP-TRANS 80V 1A 0W3	SOT23	ZETEX NPN-TRANSISTOR FM5T491 SOT23 TAPED - FM5T491TA

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1039.1304.00

Table with columns: SUBASSEMBLY, P, OS, PARTNUMBER, PLAN, DESCRIPTION, MANUFACTURER, ORDERCODE. Contains detailed component specifications for power supply parts.

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.21*.00-01	X	2	XM-2X8G-A8	B6_h	ST.LEISTE 2X8P GER RM2.54 1A AU	ASSMANN ELEKTRONIK	CONNECTOR RM2.54 STRAIGHT - AHW 16G-0202
AP-238.21*.00-01	X	3	XM-1X8G-R9	H4_v	ST.LEISTE 1X8P GER RM2.54 3A AU 6.8	RATIOPLAST	PIN HEADER SERIES 010 1X8P 0.63X0.63 - 010 02 25 112 008
AP-238.21*.00-01	X	4	XM-1X2G-90	A6_h	ST.LEISTE 1X2P GER RM2.54 2A5 SN 7.5	MOLEX	PIN HEADER SERIES 6410 2PIN 2.54 0.64X0.64 - 22-27-2021
AP-238.22*.00-01	C	29	CY-470N/250V-20	I5_v	X2-KO 470N 250V 10% F1772	ROEDERSTEIN	X2-CAPACITOR 470N 250V - F1772-447-2900(-2901) OR -2000
AP-238.22*.00-01	C	31	CE-470U/200V-N2	J3_h	ELKO 470U 200V 23X42 KMH	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR KMH-VN-470U/200V-M-22X40
AP-238.22*.00-01	C	32	CE-680U/200V-NA	J2_h	ELKO 680U 200V 26.4X42 KMH	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR KMH-VN-680U/200V-M-25.4X40
AP-238.22*.00-01	C	55	CM-470N/63V-20	G3_h	MEKO 470N 63V 20% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 DC 3470 191/201 M
AP-238.22*.00-01	C	56	CM-1N5/100V-10	B6_v	MEKO 1N5 100V 5% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 EC 1150 191/201 J
AP-238.22*.00-01	C	57	CM-1U/50V-15	F4_v	MEKO 1U 50V 10% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 CC 4100 191/201 K
AP-238.22*.00-01	C	58	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	59	CE-120U/16V-64	D1_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	60	CE-120U/16V-64	D2_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	61	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	62	CK-100P/100V-10	G5_v	KERKO 100P 100V 2% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 NPO 100P 2% 100V TAPED - 2222 679 34101
AP-238.22*.00-01	C	63	CK-68P/100V-10	A5_v	KERKO 68P 100V 2% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 NPO 68P 2% 100V TAPED - 2222 679 10689
AP-238.22*.00-01	C	64	CV-1N/63V-C2		SMD-VIELKO 1N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 1NF/63V X7R 10% - 2222 581 16614
AP-238.22*.00-01	C	65	CE-1000U/25V-64	G2_h	ELKO 1000U 25V 13X26 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1000 12.5X25
AP-238.22*.00-01	C	66	CE-1000U/50V-65	E2_h	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	67	CE-330U/25V-64	D2_h	ELKO 330U 25V 8.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF25VB-330 8X20 TPA3.5 OR WITHOUT TPA
AP-238.22*.00-01	C	68	CE-1500U/10V-64	F2_h	ELKO 1500U 10V 10.5X31 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 10 VB-1500 10X30
AP-238.22*.00-01	C	69	CK-220P/100V-15	C4_v	KERKO 220P 100V 10% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 K2000 220P 10% 100V TAPED - 2222 630 53221
AP-238.22*.00-01	C	70	CE-1000U/10V-64	B2_h	ELKO 1000U 10V 10.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF10VB-1000 10X20 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	71	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	72	CM-2N2/100V-10	D3_v	MEKO 2N2 100V 5% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 EC 1220 191/201 J
AP-238.22*.00-01	C	73	CE-1000U/10V-64	F1_h	ELKO 1000U 10V 10.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF10VB-1000 10X20 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	74	CE-120U/16V-64	C4_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	75	CE-1000U/25V-64	C1_h	ELKO 1000U 25V 13X26 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1000 12.5X25
AP-238.22*.00-01	C	76	CE-1000U/25V-64	C1_h	ELKO 1000U 25V 13X26 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1000 12.5X25
AP-238.22*.00-01	C	77	CK-68P/100V-10	C3_v	KERKO 68P 100V 2% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 NPO 68P 2% 100V TAPED - 2222 679 10689
AP-238.22*.00-01	C	78	CK-68P/100V-10	C3_h	KERKO 68P 100V 2% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 NPO 68P 2% 100V TAPED - 2222 679 10689
AP-238.22*.00-01	C	79	CE-2U2/50V-30	C2_h	ELKO 2U2 50V 5.5X12 RLL	PHILIPS COMPONENTS	ELECTROLYTIC CAPACITOR RLL 2U2/50V - 2222 116 11228
AP-238.22*.00-01	C	80	CF-6N8/250V-62	B1_v	FOKO 6N8 250V 20% FKS2	WIMA	POLYESTER FILM CAPACITOR FKS2 6N8 250VDC/160VAC 20% TAPED
AP-238.22*.00-01	C	81	CY-68N/250V-70	H1_v	X2-KO 68N 250V 20% MKT1.47	ARCOTRONICS	X2-CAPACITOR MKT1.47 68N 250V 20% ABM.6X12X18 - R47LI268000060M
AP-238.22*.00-01	C	82	CE-100U/50V-65	G2_h	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	83	CE-1000U/25V-64	G2_h	ELKO 1000U 25V 13X26 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF 25 VB-1000 12.5X25
AP-238.22*.00-01	C	84	CE-1000U/10V-64	F2_h	ELKO 1000U 10V 10.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF10VB-1000 10X20 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	85	CV-220N/63V-C3		SMD-VIELKO 220N 63V 10% X7R 1210	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220NF/63V X7R 10% - 2222 582 16645
AP-238.22*.00-01	C	86	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	87	CE-120U/16V-64	D3_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	88	CE-120U/16V-64	D3_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	89	CE-120U/16V-64	D3_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	90	CE-120U/16V-64	D3_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	91	CE-120U/16V-64	D3_h	ELKO 120U 16V 6.8X12.5 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF16VB-120 6.3X11.5 TPA2.5 OR WITHOUT TPA
AP-238.22*.00-01	C	92	CS-220U/10V-30	F2_h	SELKO 220U 10V 10X10.5 OS-CON	SANYO	ALU.SOLID ELECTROLYTIC CAPACITOR OS-CON - 10SA220M
AP-238.22*.00-01	C	93	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	94	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	95	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	96	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	97	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	98	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.22*.00-01	C	99	CV-100N/63V-C2		SMD-VIELKO.100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	100	CV-100N/63V-C2		SMD-VIELKO.100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	101	CE-1000U/10V-64	B3_h	ELKO 1000U 10V 10.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF10VB-1000 10X20 TPA OR WITHOUT TPA
AP-238.22*.00-01	C	102	CE-330U/25V-64	B4_h	ELKO 330U 25V 8.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF25VB-330 8X20 TPA3.5 OR WITHOUT TPA
AP-238.22*.00-01	C	103	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	104	CM-1U/50V-15	F6_h	MEKO 1U 50V 10% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 CC 4100 191/201 K
AP-238.22*.00-01	C	106	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	107	CV-22N/63V-C2		SMD-VIELKO 22N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 22NF/63V X7R 10% - 2222 581 16632
AP-238.22*.00-01	C	108	CM-1U/50V-15	F5_h	MEKO 1U 50V 10% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 CC 4100 191/201 K
AP-238.22*.00-01	C	110	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.22*.00-01	C	111	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	112	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	113	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	114	CV-47N/200V-10	B1_v	VIELKO 47N 200V 10% X7R C330	KEMET	CERAMIC MULTILAYER CAPACITOR C330C473K2R5CA TAPED
AP-238.22*.00-01	C	115	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	116	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.22*.00-01	C	117	CE-330U/25V-64	D2_h	ELKO 330U 25V 8.5X21 LXF	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR LXF25VB-330 8X20 TPA3.5 OR WITHOUT TPA
AP-238.22*.00-01	C	119	CV-47N/63V-C2		SMD-VIELKO 47N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 47NF/63V X7R 10% - 2222 581 16636
AP-238.22*.00-01	D	1	D-4001BCM-C2		SMD-NOR 2INP 4-FACH SO14	NATIONAL SEMICOND.	QUAD 2-INPUT NOR CD4001BCM
AP-238.22*.00-01	D	2	D-4093BCM-C2		SMD-NAND SCH.TRIG 2INP 4-FACH SO14	NATIONAL SEMICOND.	QUAD 2-INPUT NAND SCHMITT TRIGGER CD4093BCM
AP-238.22*.00-01	D	3	D-4093BCM-C2		SMD-NAND SCH.TRIG 2INP 4-FACH SO14	NATIONAL SEMICOND.	QUAD 2-INPUT NAND SCHMITT TRIGGER CD4093BCM
AP-238.22*.00-01	E	1	AP-238.222.00-01		SMDM-BLP SEKUNDÄR	PULS MÜNCHEN	
AP-238.22*.00-01	E	1	AP-238.223.00-01	F6_h	SMDM-ALP SEKUNDÄR	PULS MÜNCHEN	
AP-238.22*.00-01	E	1	AP-238.224.00-10		SMDM-WLP SEKUNDÄR	WALTER	
AP-238.22*.00-01	E	1	EP-238.225.00-10		SMDM-LP 238X133X1.6 70U 2LAG	WALTER	
AP-238.22*.00-01	E	5	ES-RM406-82	E2_h	DRAHTBRÜCKE RM40.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM40.6 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	6	ES-STEU4-10		STECKZUNGE 6.3X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 6.3X0.8 - 03866A BZ SN OR MS SN
AP-238.22*.00-01	E	7	ES-STEU4-10		STECKZUNGE 6.3X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 6.3X0.8 - 03866A BZ SN OR MS SN
AP-238.22*.00-01	E	28	WI-238.880.00-10	J5_h	KABEL BL 0.86QMM STEHU4 80MM ELH	MD ELEKTRONIK	
AP-238.22*.00-01	E	29	WI-238.880.00-10		KABEL BL 0.86QMM STEHU4 80MM ELH	MD ELEKTRONIK	
AP-238.22*.00-01	E	30	ES-STEU4-10		STECKZUNGE 6.3X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 6.3X0.8 - 03866A BZ SN OR MS SN
AP-238.22*.00-01	E	31	ES-STEU4-10		STECKZUNGE 6.3X0.8 STEH/GER 2PIN	VOGT AG SCHWEIZ	TAB FLAT 6.3X0.8 - 03866A BZ SN OR MS SN
AP-238.22*.00-01	E	32	ES-RM254-82	C2_h	DRAHTBRÜCKE RM25.4 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM25.4 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	33	ES-RM406-82	E2_h	DRAHTBRÜCKE RM40.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM40.6 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	34	ES-RM254-82	C2_h	DRAHTBRÜCKE RM25.4 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM25.4 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	35	ES-RM152-10	B3_h	OR-BRÜCKE RM15.2 OR010 2A5 Z25	ASJ ELECTRONICS	OR-RESISTOR Z25 TAPED
AP-238.22*.00-01	E	36	ES-RM406-82	C4_h	DRAHTBRÜCKE RM40.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM40.6 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	37	ES-RM254-92	D4_v	DRAHTBRÜCKE RM25.4 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM25.4 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	39	ES-RM406-82	C4_h	DRAHTBRÜCKE RM40.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM40.6 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	39	ES-RM203-72	C5_h	DRAHTBRÜCKE RM20.3 DM1.0 ISOLIERT	HÜTTLINGER	WIRE JUMPER RM20.3 DM1.0 SL2.9(AB BT-UK) INSULATION PVC105C - 17083
AP-238.22*.00-01	E	40	ES-RM254-82	D4_v	DRAHTBRÜCKE RM25.4 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM25.4 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	41	ES-RM203-72	D4_v	DRAHTBRÜCKE RM20.3 DM1.0 ISOLIERT	HÜTTLINGER	WIRE JUMPER RM20.3 DM1.0 SL2.9(AB BT-UK) INSULATION PVC105C - 17083
AP-238.22*.00-01	E	44	ES-RM305-82	E3_h	DRAHTBRÜCKE RM30.5 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM30.5 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	45	ES-RM406-92	F3_h	DRAHTBRÜCKE RM40.6 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM40.6 X 4 X 1.00MM INSULATED
AP-238.22*.00-01	E	46	ES-RM102-10	F3_h	OR-BRÜCKE RM10.2 OR010 2A5 Z25	ASJ ELECTRONICS	OR-RESISTOR Z25 TAPED
AP-238.22*.00-01	E	47	ES-RM102-10	F4_v	OR-BRÜCKE RM10.2 OR010 2A5 Z25	ASJ ELECTRONICS	OR-RESISTOR Z25 TAPED
AP-238.22*.00-01	E	48	EW-238.990.00-10		SCHIRMBLECH	ROHDE & SCHWARZ	
AP-238.22*.00-01	E	49	ES-RM102-30	C2_h	DRAHTBRÜCKE RM10.2 DM0.71 BLANK	POLYTRONIK	WIRE DM0.71 TAPED D=65MM - 7530102
AP-238.22*.00-01	E	50	ES-RM102-30	C2_h	DRAHTBRÜCKE RM10.2 DM0.71 BLANK	POLYTRONIK	WIRE DM0.71 TAPED D=65MM - 7530102
AP-238.22*.00-01	E	51	ES-RM152-9A	A4_h	DRAHTBRÜCKE RM15.2 DM1.0 ISOLIERT	BAYKRA	WIRE JUMPER RM15.2 X SL2.9(AB BT-UK) X DM1.00 INSULATED PVC105C
AP-238.22*.00-01	F	2	FV-S14K320-10	J6_v	VARISTOR 320V/420V OW6 16.5X6.3	SIEMENS	ZNO-VARISTOR SIOV S14K320 - Q69-X4327
AP-238.22*.00-01	K	1	K-A/12V/8A-40	H2_h	REL 1XAK 12V/480R 8A 20X11X10	NATIONAL MATSUSHITA	RELAY DSP1A-12V
AP-238.22*.00-01	K	2	K-U/13V/16A-1A	I3_v	REL 1XUM 12V5/170R 16A 29X13X25	FEME	RELAY MZP A 001 44 16 / TU125C
AP-238.22*.00-01	L	19	LB-192.530.01-10	A5_v	STABKERNROSSEL 3UH 4A5 4X13.3	HAGN	
AP-238.22*.00-01	L	20	LB-3U9/A85-10	F5_v	HF-DROSSEL 3U9H OA85 4X9.2 B78108	SIEMENS	HF-CHOKE 3.9UH 0.85A - B78108-S1392-K
AP-238.22*.00-01	L	21	LB-192.530.01-10	B5_v	STABKERNROSSEL 3UH 4A5 4X13.3	HAGN	
AP-238.22*.00-01	L	22	LE-238.570.00-10	D4_v	EF16-DROSSEL 7UH 5A	BHR-ELEKTRONIK	
AP-238.22*.00-01	L	23	LE-238.570.00-10	B4_v	EF16-DROSSEL 7UH 5A	BHR-ELEKTRONIK	
AP-238.22*.00-01	L	24	LE-238.540.00-20	B2_v	ETD24-DROSSEL 13UH 10A	EGSTON	
AP-238.22*.00-01	L	25	LB-192.540.00-10	B2_h	STABKERNROSSEL 500NH 14A 4X13.3	HAGN	
AP-238.22*.00-01	L	26	LB-192.540.00-10	D2_h	STABKERNROSSEL 500NH 14A 4X13.3	HAGN	
AP-238.22*.00-01	L	27	EM-D1-10		F-DÄMPFUNGS PERLE 3.5X3	PHILIPS COMPONENTS	SCREENING BEAD 3.5X3.0 FXC3B1 - 4312 020 31051
AP-238.22*.00-01	L	28	LB-150U/A28-10	C5_h	HF-DROSSEL 150UH OA28 4X9.2 B78108	SIEMENS	HF-CHOKE 150UH 0.28A - B78108-S1154-J
AP-238.22*.00-01	L	29	LE-238.570.00-20	A4_v	EF16-DROSSEL 7UH 5A	EGSTON	
AP-238.22*.00-01	L	30	LB-3U9/A85-10	G2_h	HF-DROSSEL 3U9H OA85 4X9.2 B78108	SIEMENS	HF-CHOKE 3.9UH 0.85A - B78108-S1392-K
AP-238.22*.00-01	L	31	LB-192.540.00-10	D2_v	STABKERNROSSEL 500NH 14A 4X13.3	HAGN	
AP-238.22*.00-01	L	32	WI-238.880.0C-10		KABEL BL 0.86QMM STEHU4 80MM ELH	MD ELEKTRONIK	
AP-238.22*.00-01	N	13	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	14	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	15	N-431CLP-10	G2_h	SPG. REF 2V495 OA1 2.2t TO92	MOTOROLA	VOLTAGE REFERENCE TL431CLPRA

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.22*.00-01	N	16	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	17	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	18	N-431CLP-10	E6_v	SPG.REF 2V495 0A1 2.2% T092	MOTOROLA	VOLTAGE REFERENCE TL431CLPRA
AP-238.22*.00-01	N	19	N-431CLP-10	E6_v	SPG.REF 2V495 0A1 2.2% T092	MOTOROLA	VOLTAGE REFERENCE TL431CLPRA
AP-238.22*.00-01	N	20	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	21	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	22	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	23	N-358M-C2		SMD-OPAMP 2-FACH 32V 7MV 10MA SO8	NATIONAL SEMICOND.	DUAL OPERATIONAL AMPLIFIER LM358M
AP-238.22*.00-01	N	24	N-393D-C1		SMD-KOMP 2-FACH 36V 5MV 6MA SO14	MOTOROLA	DUAL COMPARATOR LM393D
AP-238.22*.00-01	N	25	N-324D-C1		SMD-OPAMP 4-FACH 32V 7MV 10MA SO14	MOTOROLA	QUAD OPERATIONAL AMPLIFIER LM324D
AP-238.22*.00-01	N	26	N-C555CN-20	F6_h	C-MOS TIMER 1-FACH 15V DIP8	NATIONAL SEMICOND.	C-MOS-TIMER LMC555CN
AP-238.22*.00-01	R	75	RW-39R/5W-A1	I5_v	DRAHTWID 39R 5% 5.0W +TK120 A1	MODULOHM	WIRE-WOUND RESISTOR 39R-5W-A1
AP-238.22*.00-01	R	76	RW-OR15/2W-70	I4_v	M-BANDWID OR15 10% 2.0W TK200 MPC70	FAB.FUKUSHIMA FUTUB/	METAL-FOIL RESISTOR MPC70 0.150R
AP-238.22*.00-01	R	77	RW-75K/1W-40	I4_v	M-OXIDWID 75K 5% 1.0W TK200 WK4	ROEDERSTEIN	METALOXIDE RESISTOR WK4 075K J B
AP-238.22*.00-01	R	78	RW-75K/1W-40	J4_v	M-OXIDWID 75K 5% 1.0W TK200 WK4	ROEDERSTEIN	METALOXIDE RESISTOR WK4 075K J B
AP-238.22*.00-01	R	79	RW-OR15/2W-70	J4_v	M-BANDWID OR15 10% 2.0W TK200 MPC70	FAB.FUKUSHIMA FUTUB/	METAL-FOIL RESISTOR MPC70 0.150R
AP-238.22*.00-01	R	81	RM-121K0-10	I5_h	MET.WID 121K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 121K0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	82	RM-121K0-10	I4_v	MET.WID 121K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 121K0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	179	RM-22R6-10	G3_h	MET.WID 22R6 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 22R6 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	190	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.22*.00-01	R	181	RM-100R0-10	G3_h	MET.WID 100R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 100R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	182	RM-237R0-C1		SMD-METWID 237R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 237R
AP-238.22*.00-01	R	193	RM-169R0-C1		SMD-METWID 169R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 169R
AP-238.22*.00-01	R	194	RT-100K-20	F5_h	MESS-NTC 100K 10% 0W75 K164	SIEMENS	NTC K164/10%/100K - B57164-K104-K TAPED OR UNTAPED
AP-238.22*.00-01	R	195	RT-100K-20	D3_h	MESS-NTC 100K 10% 0W75 K164	SIEMENS	NTC K164/10%/100K - B57164-K104-K TAPED OR UNTAPED
AP-238.22*.00-01	R	186	PM-6K49-C1		SMD-METWID 6K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 6K49
AP-238.22*.00-01	R	197	RM-100R0-10	B6_v	MET.WID 100R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 100R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	188	RM-100R0-10	B6_v	MET.WID 100R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 100R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	189	RM-6K49-C1		SMD-METWID 6K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 6K49
AP-238.22*.00-01	R	190	RM-51K1-10	A6_h	MET.WID 51K1 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 51K1 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	191	RM-5K23-C2		SMD-METWID 5K23 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 5K23
AP-238.22*.00-01	R	192	RM-6K49-C2		SMD-METWID 6K49 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 6K49
AP-238.22*.00-01	R	193	RW-0R032-D6	B4_v	WIDERST.DRAHT 0R032 0.6X15.24	HÜTTLINGER	ZERO OHM RESISTOR DMO.6 RM15.24 SL=4.2 - 15002
AP-238.22*.00-01	R	194	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.22*.00-01	R	195	RM-5K23-C2		SMD-METWID 5K23 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 5K23
AP-238.22*.00-01	R	196	RM-6K49-C2		SMD-METWID 6K49 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 6K49
AP-238.22*.00-01	R	197	RM-1R50-10	F4_v	MET.WID 1R50 1% 0.6W TK100 300V		METAL FILM RESISTOR DINO207 1R50 1% TK100 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	198	RM-1K00-10	F4_v	MET.WID 1K00 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 1K00 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	199	RM-147R0-C1		SMD-METWID 147R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 147R
AP-238.22*.00-01	R	200	RW-0R074-D4	E4_v	WIDERST.DRAHT 0R074 0.4X15.24	HÜTTLINGER	ZERO OHM RESISTOR DMO.4 RM15.24 SL=4.1 - 15463
AP-238.22*.00-01	R	201	RM-1R50-10	F4_v	MET.WID 1R50 1% 0.6W TK100 300V		METAL FILM RESISTOR DINO207 1R50 1% TK100 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	202	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.22*.00-01	R	203	RM-11K0-C1		SMD-METWID 11K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 11K0
AP-238.22*.00-01	R	204	RM-75K0-C1		SMD-METWID 75K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 75K0
AP-238.22*.00-01	R	205	RM-2M15-C1		SMD-METWID 2M15 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2M15
AP-238.22*.00-01	R	206	RM-100K0-C1		SMD-METWID 100K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100K
AP-238.22*.00-01	R	207	RM-100K0-C1		SMD-METWID 100K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100K
AP-238.22*.00-01	R	208	RM-237R0-C1		SMD-METWID 237R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 237R
AP-238.22*.00-01	R	209	RA-1K0-21	E6_v	TRIMMOPOT 1K 10% 15G TYP 3006P	BOURNS	CERMET POTENTIOMETER TYP3006P 1K - 3006P-EX2-102
AP-238.22*.00-01	R	210	RM-2K49-10	E6_v	MET.WID 2K49 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 2K49 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	211	RM-3K16-10	E6_v	MET.WID 3K16 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 3K16 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	212	RM-6K49-C2		SMD-METWID 6K49 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR DINO207 6K49 0.25% BL 6K49
AP-238.22*.00-01	R	213	RM-6K49-C2		SMD-METWID 6K49 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 6K49
AP-238.22*.00-01	R	214	RM-5K11-C1		SMD-METWID 5K11 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5K11
AP-238.22*.00-01	R	215	RM-5K11-C1		SMD-METWID 5K11 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5K11
AP-238.22*.00-01	R	216	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.22*.00-01	R	217	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.22*.00-01	R	218	RM-34K8-C1		SMD-METWID 34K8 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 34K8
AP-238.22*.00-01	R	219	RM-464R0-C1		SMD-METWID 464R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 464R
AP-238.22*.00-01	R	220	RM-34K8-C1		SMD-METWID 34K8 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 34K8

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Table with columns: SUBASSEMBLY, P, OS, PARTNUMBER, PLAN, DESCRIPTION, MANUFACTURER, ORDERCODE. Rows list various resistor and potentiometer parts like RM-332R0-C1, RM-2K49-C1, RA-1K0-21, etc.

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.22*.00-01	R	291	RM-750R0-10	E5_v	MET.WID 750R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 750R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	292	RM-3R16-C1		SMD-METWID 3R16 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3R16
AP-238.22*.00-01	R	293	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	294	RM-332R0-C1		SMD-METWID 332R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 332R
AP-238.22*.00-01	R	285	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	286	RM-3R48-C1		SMD-METWID 3R48 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3R48
AP-238.22*.00-01	R	287	RM-3R48-C1		SMD-METWID 3R48 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3R48
AP-238.22*.00-01	R	288	RM-1K62-10	C2_v	MET.WID 1K62 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 1K62 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	289	RM-4R75-10	C2_v	MET.WID 4R75 1% 0.6W TK100 300V		METAL FILM RESISTOR DINO207 4R75 1% TK100 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	290	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	291	RM-15R0-10	C3_v	MET.WID 15R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 15R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	292	RM-10R0-C1		SMD-METWID 10R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10R0
AP-238.22*.00-01	R	293	RM-1R16-C1		SMD-METWID 1R16 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1R16
AP-238.22*.00-01	R	294	RM-1K100-C1		SMD-METWID 1K100 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K100
AP-238.22*.00-01	R	295	RM-15R0-10		SMD-METWID 15R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 15R0
AP-238.22*.00-01	R	296	RM-15R0-10		SMD-METWID 15R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 15R0
AP-238.22*.00-01	R	297	RM-750R0-10		SMD-METWID 750R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 750R
AP-238.22*.00-01	R	300	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	309	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	310	RM-287K0-C1		SMD-METWID 287K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 287K
AP-238.22*.00-01	R	311	RM-12K1-C1		SMD-METWID 12K1 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 12K1
AP-238.22*.00-01	R	312	RM-133R0-C1		SMD-METWID 133R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 133R
AP-238.22*.00-01	R	313	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	314	RM-2M15-C1		SMD-METWID 2M15 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2M15
AP-238.22*.00-01	R	315	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.22*.00-01	R	316	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.22*.00-01	R	317	RM-105K0-C1		SMD-METWID 105K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 105K
AP-238.22*.00-01	R	318	RM-12K1-C1		SMD-METWID 12K1 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 12K1
AP-238.22*.00-01	R	319	RM-6K81-C1		SMD-METWID 6K81 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 6K81
AP-238.22*.00-01	R	320	RM-6K81-C1		SMD-METWID 6K81 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 6K81
AP-238.22*.00-01	R	321	RM-6K81-C1		SMD-METWID 6K81 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 6K81
AP-238.22*.00-01	R	322	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.22*.00-01	R	323	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.22*.00-01	R	324	RM-511K0-C1		SMD-METWID 511K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 511K
AP-238.22*.00-01	R	325	RM-750K0-C1		SMD-METWID 750K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 750K
AP-238.22*.00-01	R	326	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	327	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.22*.00-01	R	328	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.22*.00-01	R	329	RM-5K23-C2		SMD-METWID 5K23 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 5K23
AP-238.22*.00-01	R	330	RM-19K6-C2		SMD-METWID 19K6 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 19K6
AP-238.22*.00-01	R	331	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.22*.00-01	R	332	RM-100R0-C1		SMD-METWID 100R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 100R
AP-238.22*.00-01	R	333	RM-287K0-C1		SMD-METWID 287K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 287K
AP-238.22*.00-01	R	334	RM-1K00-C1		SMD-METWID 1K00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K00
AP-238.22*.00-01	R	335	RM-487K0-C1		SMD-METWID 487K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 487K
AP-238.22*.00-01	R	336	RM-2K15-C1		SMD-METWID 2K15 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K15
AP-238.22*.00-01	R	337	RM-226K0-C1		SMD-METWID 226K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 226K
AP-238.22*.00-01	R	338	RM-2K15-10	E5_v	MET.WID 2K15 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 2K15 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	339	RM-24K9-C1		SMD-METWID 24K9 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 24K9
AP-238.22*.00-01	R	340	RM-237R0-10	E4_v	MET.WID 237R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 237R0 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	341	RM-11K0-C2		SMD-METWID 11K0 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 11K0
AP-238.22*.00-01	R	342	RM-19K6-C2		SMD-METWID 19K6 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 19K6
AP-238.22*.00-01	R	343	RM-6K49-10	G5_v	MET.WID 6K49 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 6K49 1% TK50 300V 0.6W/70C TAPED
AP-238.22*.00-01	R	345	RM-1K69-C1		SMD-METWID 1K69 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K69
AP-238.22*.00-01	R	346	RM-1K69-C1		SMD-METWID 1K69 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K69
AP-238.22*.00-01	R	347	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.22*.00-01	R	348	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.22*.00-01	R	349	RM-2K61-C1		SMD-METWID 2K61 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K61
AP-238.22*.00-01	R	350	RM-3K40-C2		SMD-METWID 3K40 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 3K40
AP-238.22*.00-01	R	351	RM-OR0-C1		SMD-METWID 0R0 MAX.0R02 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204 BL 0R0
AP-238.22*.00-01	R	352	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.22*.00-01	R	353	RM-5R62-C1		SMD-METWID 5R62 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 5R62
AP-238.22*.00-01	R	354	RM-46K4-C1		SMD-METWID 46K4 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 46K4
AP-238.22*.00-01	R	355	RW-100R/W25-90		K-MASSEWID 100R 10% 0.25W CB	ALLEN BRADLEY	HOT-MOLDED RESISTOR CB 1011
AP-238.22*.00-01	R	356	RW-100R/W25-90		K-MASSEWID 100R 10% 0.25W CB	ALLEN BRADLEY	HOT-MOLDED RESISTOR CB 1011
AP-238.22*.00-01	R	357	RW-100R/W25-90		K-MASSEWID 100R 10% 0.25W CB	ALLEN BRADLEY	HOT-MOLDED RESISTOR CB 1011
AP-238.22*.00-01	V	45	VB-KBU6J-10	J5_v	BR-GLEICHR 420VAC/600VDC 6A	GENERAL INSTRUMENTS	BRIDGE RECTIFIER KBU6J
AP-238.22*.00-01	V	93	VT-BC307B-10	G3_v	PNP-TRANS 50V 0A1 0W3 TO92E	ZETEX	PNP-TRANSISTOR BC307BP STOA
AP-238.22*.00-01	V	94	VS-S0325R-19	G2_v	THYRISTOR 30V 25A 30MA TO220	TECCOR	THYRISTOR S0325R
AP-238.22*.00-01	V	95	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	96	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	97	VZ-ZMM16-C1		SMD-Z-DIODE 16V 5% 0W5 0204	ITT	Z-DIODE MINI-MELF ZMM16-SB00014 (TAPED ON REEL "7")
AP-238.22*.00-01	V	98	VT-BD240A-29	E3_v	PNP-TRANS 70V 2A 30W TO220	SGS-THOMSON	PNP-TRANSISTOR BD240A
AP-238.22*.00-01	V	99	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	100	VT-BC546B-10	F4_h	NPN-TRANS 80V 0A1 0W5 TO92E	ZETEX	PNP-TRANSISTOR BC546BP STOA
AP-238.22*.00-01	V	101	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	102	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	103	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	104	VT-BC307B-10	F4_v	PNP-TRANS 50V 0A1 0W3 TO92E	ZETEX	PNP-TRANSISTOR BC307BP STOA
AP-238.22*.00-01	V	105	VM-ZVN2110A-10	H3_v	N-MOSFET 100V 4R 0W7 TO92E	ZETEX	DMOS FET ZVN2110A STOA
AP-238.22*.00-01	V	106	VZ-BZX79B27-13	G3_v	Z-DIODE 27V 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B27 TAPED - 9331 669 70113
AP-238.22*.00-01	V	107	VZ-BZX79B5V6-13	G3_h	Z-DIODE 5V6 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B5V6 TAPED - 9331 668 20113
AP-238.22*.00-01	V	108	VZ-BZX79B9V1-13	F3_h	Z-DIODE 9V1 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B9V1 TAPED - 9331 668 60113
AP-238.22*.00-01	V	109	VZ-BZX79B5V6-13	F3_h	Z-DIODE 5V6 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B5V6 TAPED - 9331 668 20113
AP-238.22*.00-01	V	110	VZ-BZX79B8V2-13	F3_h	Z-DIODE 8V2 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B8V2 TAPED - 9331 668 50113
AP-238.22*.00-01	V	111	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	112	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	113	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	114	VZ-BZX79B18-13	G4_v	Z-DIODE 18V 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B18 TAPED - 9331 669 30113
AP-238.22*.00-01	V	115	VT-BD139/16-19	F5_v	NPN-TRANS 100V 1A5 12W5 TO126	PHILIPS COMPONENTS	PNP-TRANSISTOR BD139-16 - 9332 6975 0127
AP-238.22*.00-01	V	116	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	117	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	118	VZ-ZMM16-C1		SMD-Z-DIODE 16V 5% 0W5 0204	ITT	Z-DIODE MINI-MELF ZMM16-SB00014 (TAPED ON REEL "7")
AP-238.22*.00-01	V	119	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	120	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	121	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	122	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	123	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	124	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	125	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	126	VT-ZTX750-10	C2_h	PNP-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX750 STOA OR ZTX750 STZA
AP-238.22*.00-01	V	127	VT-ZTX650-10	C2_h	NPN-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX650 STOA OR ZTX650 STZA
AP-238.22*.00-01	V	128	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	129	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	130	VD-SB140-10	A1_h	SCHOTTKY 40V 1A 0V5 DO41	GENERAL INSTRUMENTS	SCHOTTKY DIODE SB140 TAPED
AP-238.22*.00-01	V	131	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	132	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	133	VD-BAS21-C1		SMD-DIODE 250V 0A2 SOT23	SIEMENS	RECTIFIER DIODE BAS21 - Q62702-A79 (TAPE:E6327)
AP-238.22*.00-01	V	134	VD-BAS21-C1		SMD-DIODE 250V 0A2 SOT23	SIEMENS	RECTIFIER DIODE BAS21 - Q62702-A79 (TAPE:E6327)
AP-238.22*.00-01	V	135	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	136	VM-IRFZ44-1E		N-MOSFET 60V 0R028 150W TO220	INTERNAT.RECTIFIER	HEXFET IRFZ44
AP-238.22*.00-01	V	137	VD-SB140-10	B1_h	SCHOTTKY 40V 1A 0V5 DO41	GENERAL INSTRUMENTS	SCHOTTKY DIODE SB140 TAPED
AP-238.22*.00-01	V	138	VT-ZTX750-10	C2_h	PNP-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX750 STOA OR ZTX750 STZA
AP-238.22*.00-01	V	139	VT-ZTX650-10	C2_h	NPN-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX650 STOA OR ZTX650 STZA
AP-238.22*.00-01	V	140	VT-ZTX650-10	C2_h	NPN-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX650 STOA OR ZTX650 STZA
AP-238.22*.00-01	V	141	VZ-ZMM5V6-C1		SMD-Z-DIODE 5V6 5% 0W5 0204	ITT	Z-DIODE MINI-MELF ZMM5V6-SB00014 (TAPED ON REEL "7")

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SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.22*.00-01	V	142	VT-BCS46B-C1	C2_h	SMD-NPN-TRANS 80V OA1 OW3 SOT23	PHILIPS COMPONENTS	NPN-TRANSISTOR BC846B SOT23 - 9335 895 60215 (REEL 7")
AP-238.22*.00-01	V	143	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	144	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	145	VT-BC307B-10		PNP-TRANS 50V OA1 OW3 TO92E	ZETEX	PNP-TRANSISTOR BC307BP STOA
AP-238.22*.00-01	V	146	VZ-ZMM16-C1		SMD-Z-DIODE 16V 5% OW5 0204	ITT	Z-DIODE MINI-MELF ZMM16-SB00014 (TAPED ON REEL "7")
AP-238.22*.00-01	V	147	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	149	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	150	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	151	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	152	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	153	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	154	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	155	VT-BC856B-C1		SMD-PNP-TRANS 80V OA1 OW2 SOT23	PHILIPS COMPONENTS	PNP-TRANSISTOR BC856B SOT23 - 9335 897 30215 (REEL 7")
AP-238.22*.00-01	V	156	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	157	VD-LL4148-C1		SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.22*.00-01	V	158	VD-LL4148-C1	SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014	
AP-238.22*.00-01	V	159	VD-LL4148-C1	SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014	
AP-238.22*.00-01	V	160	VT-BC956B-C1	SMD-PNP-TRANS 80V OA1 OW2 SOT23	PHILIPS COMPONENTS	PNP-TRANSISTOR BC856B SOT23 - 9335 897 30215 (REEL 7")	
AP-238.22*.00-01	V	161	VD-LL4148-C1	SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014	
AP-238.22*.00-01	V	162	VD-LL4148-C1	SMD-DIODE 75V OA15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014	
AP-238.22*.00-01	W	2	WR-238.760.00-10	C4_h	FLACHBANDKABEL KONFEKTIONIERTE 16-POL.	MD ELEKTRONIK	
AP-238.22*.00-01	X	3	XF-SUBD50E-F8		SUBD-STECKER 50POL EINPRESS 250V	FCT	D-SUB CONNECTOR NO.2/DIN41652 50PIN - F50S9-K49
AP-238.22*.00-01	X	4	XM-1X7G-J9	B5_v	ST.LEISTE 1X7P GER RM3.96 7A SN 11	ITT	PIN HEADER VS 7PIN - B7P-VS
AP-238.22*.00-01	X	5	XM-1X8G-R9	D4_v	ST.LEISTE 1X8P GER RM2.54 3A AU 6.8	RATIOPLAST	PIN HEADER SERIES 010 1X8P 0.63X0.63 - 010 02 25 112 008
AP-238.22*.00-01	X	8	XM-1X5G-R9	H4_v	ST.LEISTE 1X5P GER RM2.54 3A AU 6.8	RATIOPLAST	PIN HEADER SERIES 010 1X5P 0.63X0.63 - 010 02 25 112 005
AP-238.23*.00-01	C	1	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.23*.00-01	C	2	CV-220P/63V-C1		SMD-VIELKO 220P 63V 5% NPO 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220PF/63V NPO 5% - 2222 863 15221
AP-238.23*.00-01	C	3	CV-47N/63V-C2		SMD-VIELKO 47N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 47NF/63V X7R 10% - 2222 581 16636
AP-238.23*.00-01	C	4	CV-220N/63V-C3		SMD-VIELKO 220N 63V 10% X7R 1210	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220NF/63V X7R 10% - 2222 582 16645
AP-238.23*.00-01	C	5	CV-10N/63V-C2		SMD-VIELKO 10N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 10NF/63V X7R 10% - 2222 581 16627
AP-238.23*.00-01	C	6	CV-220N/63V-C3		SMD-VIELKO 220N 63V 10% X7R 1210	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220NF/63V X7R 10% - 2222 582 16645
AP-238.23*.00-01	C	7	CV-220N/63V-C3		SMD-VIELKO 220N 63V 10% X7R 1210	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 220NF/63V X7R 10% - 2222 582 16645
AP-238.23*.00-01	C	8	CV-100N/63V-C2		SMD-VIELKO 100N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 100NF/63V X7R 10% - 2222 581 16641
AP-238.23*.00-01	C	9	CV-1N/63V-C2		SMD-VIELKO 1N 63V 10% X7R 1206	PHILIPS COMPONENTS	CERAM. MULTILAYER CHIP CAPACITOR 1NF/63V X7R 10% - 2222 581 16614
AP-238.23*.00-01	E	1	EP-238.235.00-10		SMDM-LP 47X 46X1.6 35U 2LAG	WALTER	
AP-238.23*.00-01	N	1	N-339D-C1		SMD-KOMP 4-FACH 36V 5MV 6MA SO14	MOTOROLA	QUAD COMPARATOR LM339D
AP-238.23*.00-01	N	2	N-339D-C1		SMD-KOMP 4-FACH 36V 5MV 6MA SO14	MOTOROLA	QUAD COMPARATOR LM339D
AP-238.23*.00-01	R	2	RM-1M00-C1		SMD-METWID 1M00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1M00
AP-238.23*.00-01	R	3	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.23*.00-01	R	4	RM-4K75-C1		SMD-METWID 4K75 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K75
AP-238.23*.00-01	R	5	RM-1M00-C1		SMD-METWID 1M00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1M00
AP-238.23*.00-01	R	6	RM-115R0-C1		SMD-METWID 115R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 115R
AP-238.23*.00-01	R	8	RM-2K49-C1		SMD-METWID 2K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K49
AP-238.23*.00-01	R	9	RM-4K64-C1		SMD-METWID 4K64 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K64
AP-238.23*.00-01	R	10	RM-22K6-C1		SMD-METWID 22K6 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 22K6
AP-238.23*.00-01	R	11	RM-3K32-C1		SMD-METWID 3K32 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 3K32
AP-238.23*.00-01	R	12	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.23*.00-01	R	13	RM-1K54-C1		SMD-METWID 1K54 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1K54
AP-238.23*.00-01	R	14	RM-22K6-C1		SMD-METWID 22K6 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 22K6
AP-238.23*.00-01	R	15	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.23*.00-01	R	16	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.23*.00-01	R	17	RM-27K4-C1		SMD-METWID 27K4 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 27K4
AP-238.23*.00-01	R	18	RM-1M00-C1		SMD-METWID 1M00 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 1M00
AP-238.23*.00-01	R	19	RM-511K0-10	A2_v	MET.WID 511K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DINO207 511K0 1% TK50 300V 0.6W/70C TAPED
AP-238.23*.00-01	P	20	RM-2K49-C1		SMD-METWID 2K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K49
AP-238.23*.00-01	K	21	RM-4K22-C1		SMD-METWID 4K22 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 4K22
AP-238.23*.00-01	P	22	RM-11K5-C2		SMD-METWID 11K5 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 11K5
AP-238.23*.00-01	R	23	RM-13K3-C1		SMD-METWID 13K3 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 13K3
AP-238.23*.00-01	K	24	RM-2K49-C1		SMD-METWID 2K49 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 2K49
AP-238.23*.00-01	R	27	RM-12K7-C2		SMD-METWID 12K7 0.25% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 0.25% BL 12K7

SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.23*.00-01	R	28	RM-10K0-C1		SMD-METWID 10K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10K0
AP-238.23*.00-01	R	29	RM-287K0-C1		SMD-METWID 287K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 287K
AP-238.23*.00-01	R	30	RM-226K0-C1		SMD-METWID 226K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 226K
AP-238.23*.00-01	R	31	RM-287K0-C1		SMD-METWID 287K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 287K
AP-238.23*.00-01	R	32	RM-226K0-C1		SMD-METWID 226K0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 226K
AP-238.23*.00-01	R	33	RM-10R0-C1		SMD-METWID 10R0 1% W25 TK50 0204	BEYSCHLAG	METAL FILM RESISTOR MINI-MELF MMA0204-50 1% BL 10R0
AP-238.23*.00-01	V	1	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.23*.00-01	V	4	VZ-BZX79B5V6-13	A1_h	Z-DIODE 5V6 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B5V6 TAPED - 9331 668 20113
AP-238.23*.00-01	V	5	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	6	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	8	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	9	VZ-BZX79B9V1-13	B2_v	Z-DIODE 9V1 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B9V1 TAPED - 9331 668 60113
AP-238.23*.00-01	V	11	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	12	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	13	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	15	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.23*.00-01	V	16	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.23*.00-01	V	17	VD-LL101A-C1		SMD-SCHOTTKY 60V 0A01 0V41 0204	ITT	SCHOTTKY DIODE MINI-MELF LL101A-TAPE
AP-238.23*.00-01	V	18	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.23*.00-01	V	19	VD-LL4148-C1		SMD-DIODE 75V 0A15 4NS 0204	ITT	RECTIFIER DIODE MINI-MELF LL4148-SB00014
AP-238.23*.00-01	V	20	VT-BC846B-C1		SMD-NPN-TRANS 80V 0A1 0W3 SOT23	PHILIPS COMPONENTS	NPN-TRANSISTOR BC846B SOT23 - 9335 895 60215 (REEL 7")
AP-238.23*.00-01	V	21	VT-BC846B-C1		SMD-NPN-TRANS 80V 0A1 0W3 SOT23	PHILIPS COMPONENTS	NPN-TRANSISTOR BC846B SOT23 - 9335 895 60215 (REEL 7")
AP-238.23*.00-01	V	22	VT-BC846B-C1		SMD-NPN-TRANS 80V 0A1 0W3 SOT23	PHILIPS COMPONENTS	NPN-TRANSISTOR BC846B SOT23 - 9335 895 60215 (REEL 7")
AP-238.23*.00-01	V	23	VT-BC846B-C1		SMD-NPN-TRANS 80V 0A1 0W3 SOT23	PHILIPS COMPONENTS	NPN-TRANSISTOR BC846B SOT23 - 9335 895 60215 (REEL 7")
AP-238.23*.00-01	V	24	VD-D1F60-C1		SMD-DIODE 600V 0A75 CHIP	SHINDENGEN	RECTIFIER DIODE CHIP D1F60 TAPED (D<=25)
AP-238.23*.00-01	X	3	XF-1X8L-90	B2_h	BUCHSENLEISTE 1X8P LÖTPIN 3A	MOLEX	FEMALE CONNECTOR SERIES 90148 8POL 2.54 HORIZ. - 90148-1208
AP-238.23*.00-01	X	4	XF-1X5L-90	A1_h	BUCHSENLEISTE 1X5P LÖTPIN 3A	MOLEX	FEMALE CONNECTOR SERIES 90148 5POL 2.54 HORIZ. - 90148-1205
AP-238.24*.00-01	I	0	AP-238.243.00-01	A2_h	BLP SEKUNDÄRMODUL 1	PULS MÜNCHEN	
AP-238.24*.00-01	C	1	CE-100U/50V-65	B1_v	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.24*.00-01	C	2	CE-100U/50V-65	C2_v	ELKO 100U 50V 10.5X16 SXE	NIPPON CHEMICON	ELECTROLYTIC CAPACITOR SXE 50 VB-100 10X15 TPA OR WITHOUT TPA
AP-238.24*.00-01	C	3	CM-100N/63V-20	A2_h	MEKO 100N 63V 20% MKT1.85	ARCOTRONICS	METALL. POLYESTER FILM CAPACITOR R.85 DC 3100 191/201 M
AP-238.24*.00-01	C	4	CK-220P/100V-15	C2_v	KERKO 220P 100V 10% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 K2000 220P 10% 100V TAPED - 2222 630 53221
AP-238.24*.00-01	C	5	CK-220P/100V-16	C1_v	KERKO 220P 100V 10% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM2,5 K2000 220P 10% 100V TAPED - 2222 630 51221
AP-238.24*.00-01	C	8	CK-68P/100V-10	C2_h	KERKO 68P 100V 2% EGPU	PHILIPS COMPONENTS	DISC CAPACITOR EGPU RM5 NPO 68P 2% 100V TAPED - 2222 679 10689
AP-238.24*.00-01	E	1	EP-238.245.00-10	B3_h	LEITERPLATTE 70X 48X1.6 35U 2LAG	WALTER	
AP-238.24*.00-01	L	4	LE-238.560.00-20	B2_v	EF20-DROSSEL 1M9H 0A6	EGSTON	
AP-238.24*.00-01	N	3	N-392N-10	C2_h	OPKOMP 1-FACH 32V 5MV 10MA DIP8	NATIONAL SEMICOND.	OPERATIONAL AMPLIFIER / VOLTAGE COMPARATOR LM392N
AP-238.24*.00-01	R	1	RM-178R0-10	B2_h	MET.WID 178R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 178R0 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	F	2	RM-475K0-10	C2_v	MET.WID 475K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 475K0 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	3	RM-19K6-10	A2_v	MET.WID 19K6 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 19K6 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	4	RM-5K23-65	A2_v	MET.WID 5K23 0.25% 0.6W TK50 MBB	BEYSCHLAG	METAL FILM RESISTOR MBB0207-50/0.25%/5K23/0.6W
AP-238.24*.00-01	R	5	RM-18K7-10	A2_v	MET.WID 18K7 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 18K7 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	6	RM-1R00-10	C2_v	MET.WID 1R00 1% 0.6W TK100 300V		METAL FILM RESISTOR DIN0207 1R00 1% TK100 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	7	RM-1R00-10	C1_v	MET.WID 1R00 1% 0.6W TK100 300V		METAL FILM RESISTOR DIN0207 1R00 1% TK100 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	8	RM-1K00-10	C1_h	MET.WID 1K00 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 1K00 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	9	RM-10K0-10	A2_v	MET.WID 10K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 10K0 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	10	RM-274R0-10	B2_h	MET.WID 274R0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 274R0 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	11	RM-1K00-10	C1_h	MET.WID 1K00 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 1K00 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	13	RM-51K1-10	C2_v	MET.WID 51K1 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 51K1 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	14	RM-287K0-10	B2_h	MET.WID 287K0 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 287K0 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	16	RM-12K7-10	C2_v	MET.WID 12K7 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 12K7 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	17	RM-64K9-10	C2_h	MET.WID 64K9 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 64K9 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	R	18	RM-1K00-10	B2_h	MET.WID 1K00 1% 0.6W TK50 300V		METAL FILM RESISTOR DIN0207 1K00 1% TK50 300V 0.6W/70C TAPED
AP-238.24*.00-01	V	1	VT-2TX750-10	B2_h	PNP-TRANS 60V 2A 1W TO92E	ZETEX	PNP-TRANSISTOR ZTX750 STOA OR ZTX750 STZA
AP-238.24*.00-01	V	2	VD-BYS21/45-10	B2_v	SCHOTTKY 45V 1A 0V55 3X5	SIEMENS	SCHOTTKY DIODE BYS21-45 TAPED
AP-238.24*.00-01	V	3	VZ-BZX79B5V6-13	A2_v	Z-DIODE 5V6 2% 0W5 DO35	PHILIPS COMPONENTS	Z-DIODE BZX79B5V6 TAPED - 9331 668 20113
AP-238.24*.00-01	V	4	VT-BC546B-10	B2_h	NPN-TRANS 80V 0A1 0W5 TO92E	ZETEX	NPN-TRANSISTOR BC546BP STOA
AP-238.24*.00-01	V	6	VD-BAT43-10	C2_v	SCHOTTKY 30V 0A2 1V DO35	SGS-THOMSON	SCHOTTKY DIODE BAT 43 TAPED
AP-238.24*.00-01	X	2	XF-1X8L-90	A2_h	BUCHSENLEISTE 1X8P LÖTPIN 3A	MOLEX	FEMALE CONNECTOR SERIES 90148 8POL 2.54 HORIZ. - 90148-1208
AP-238.490.00-01	C	1	CY-470P/400V-95		Y-KOPPL 470P 400V 20% WKP	ROEDERSTEIN	CERAMIC DISC CAPACITOR CLASS Y WKP600 470P 400V 20% - WKP471MCFEFOK

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 A1: 01



SUBASSEMBLY	P	OS	PARTNUMBER	PLAN	DESCRIPTION	MANUFACTURER	ORDERCODE
AP-238.490.00-01	C	2	CY-470P/400V-95		Y-KOPPL 470P 400V 20% WKP	ROEDERSTEIN	CERAMIC DISC CAPACITOR CLASS Y WKP600 470P 400V 20% - WKP471MCFEYOK
AP-238.490.00-01	E	1	WI-238.792.02-10		KABEL SW 0.86QMM STEHU4 120MM ELH	MD ELEKTRONIK	
AP-238.490.00-01	E	2	WI-238.792.02-10		KABEL SW 0.86QMM STEHU4 120MM ELH	MD ELEKTRONIK	
AP-238.490.00-01	E	3	EP-238.495.00-10		LEITERPLATTE 170X 64X1.6 35U 2LAG	WALTER	
AP-238.490.00-01	L	1	EM-D2-10		F-DÄMPFUNGSPERLE 3.5X7.5	PHILIPS COMPONENTS	SCREENING BEAD 3.5X7.5 FXC3B1 - 4312 020 31331
AP-238.490.00-01	R	1	RK-100R-10		KOHLE.WID 100R 5% 0.33W -TK300 CR25	PHILIPS COMPONENTS	CARBON FILM RESISTOR CR25 100R TAPED - 2322 211 73101
xy-238.790.00-01	1	0	XY-GS10FD/SS-80		GERÄTEEINB.STECK+FD+SS 250V/10A L0+ST	OTTO HEIL	COMPACT-CONNECTOR PART-NO. 6765.01.1802.1102
XY-238.790.00-01	5	0	FD-T6A3-10		G-SICH T 6A3 1500A 5X20 IEC127/2/5		FUSE LINK IEC127/2 BL.5 6.3A
ya-238.770.00-10	1	0	YA-12VDC/Q15-10		AX.LÜFTER 12VDC 15.5L/S 80X80X25.4	PAPST	AXIAL VENTILATING FAN MULTIFAN 80X80X25 12VDC - 8412

1039.1304.00 SA
Bl. 13-
AI: 01

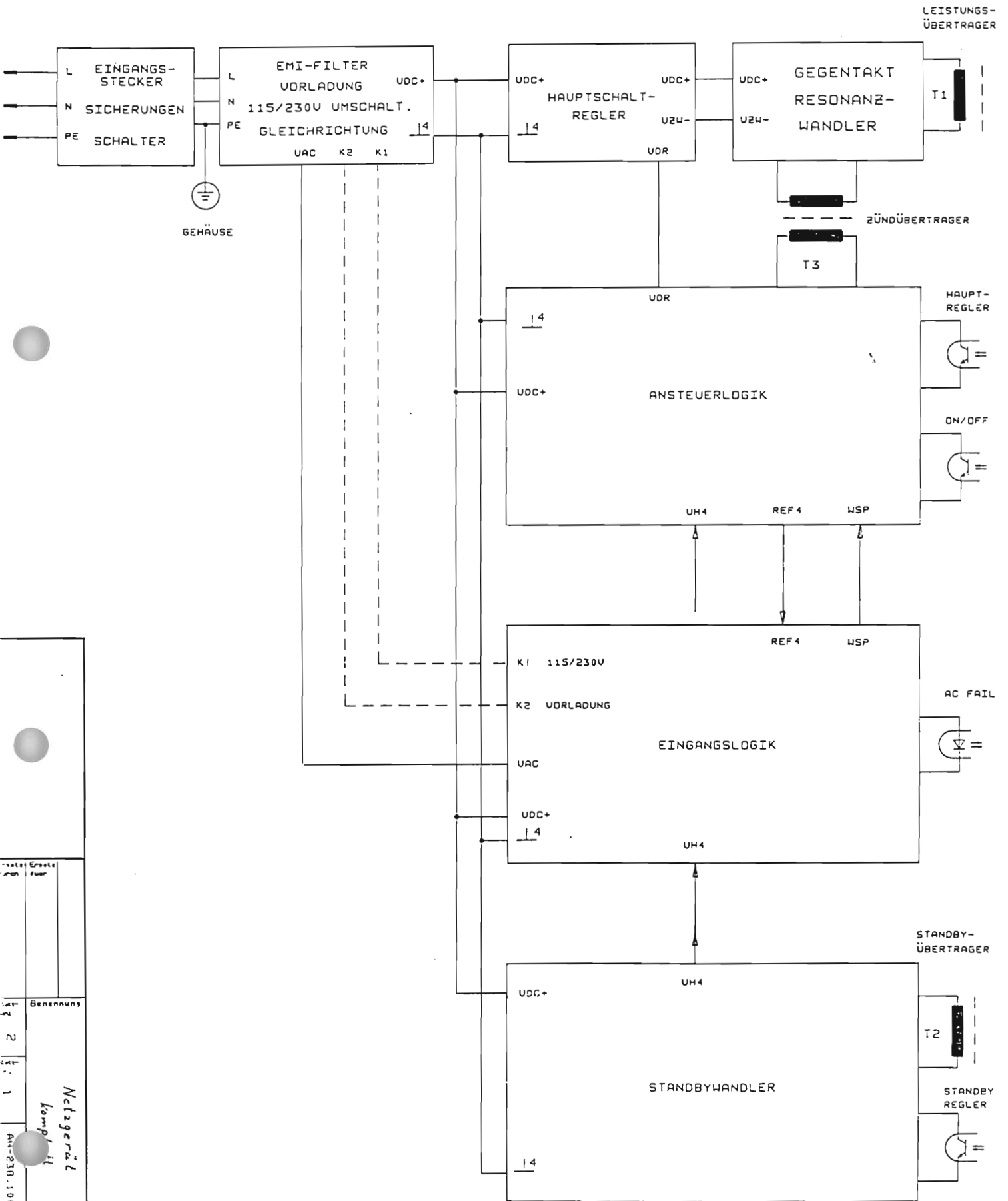




ROHDE & SCHWARZ

Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants





#	Erste	Zweite	Dritte	Vierte	Fünfte	Sechste	Siebte	Achte	Neunte	Zehnte
1										
2										
1										
1										
1										

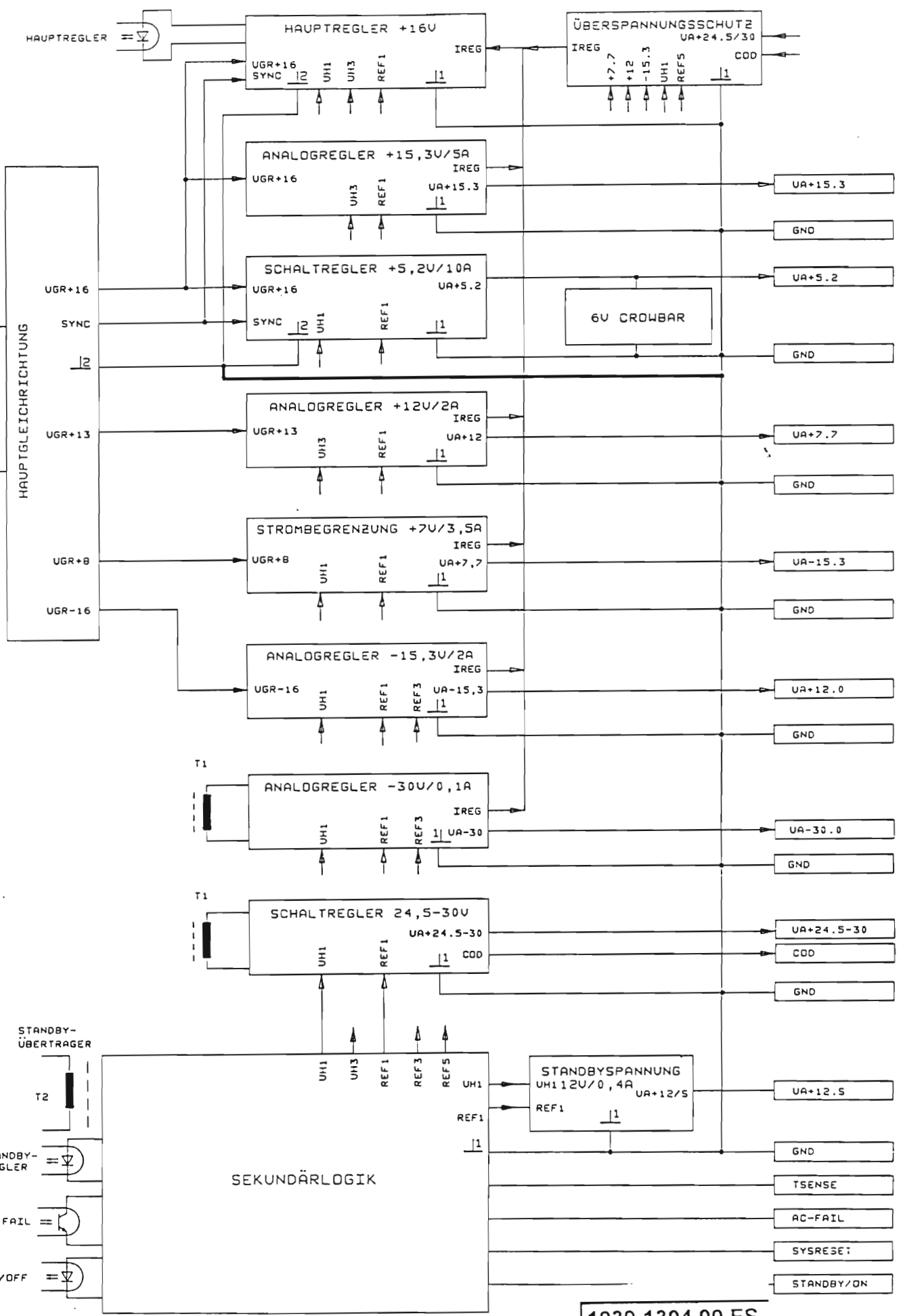
Benennung

Netzgerät
komplett

Art-230-100-00-SF



Netzgerät
 komplett



LEISTUNGS-
 ÜBERTRAGER
 T1

Erstellt
 fuer
 Netzgerät
 komplett



AI: 01

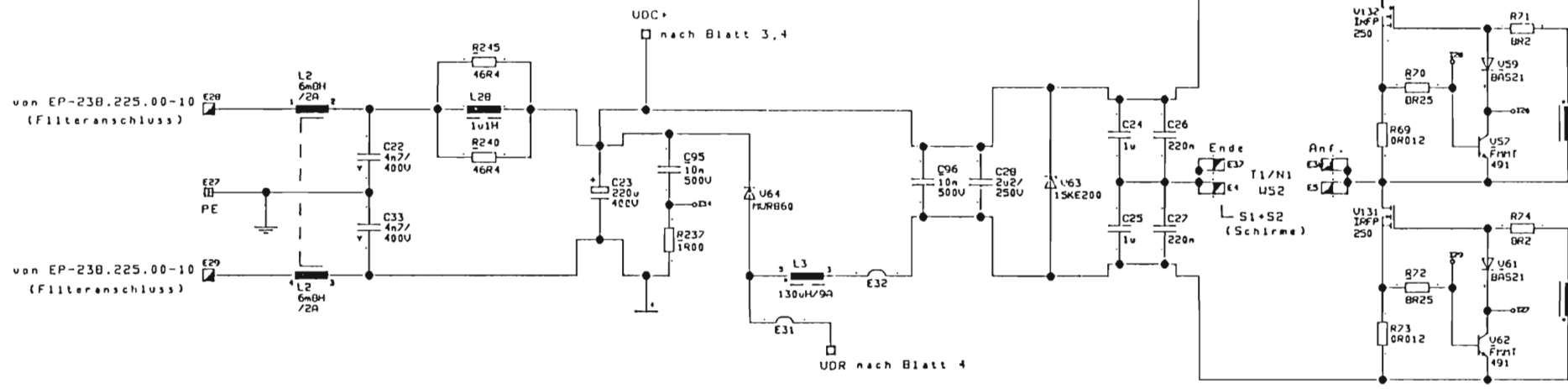
1039.1304.00 FS

Bl. 2-

11
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RUS GmbH MÜNCHEN
 3 26.09.92 Bos
 4 28.09.92 Bos
 5 01.10.92 Bos
 6 03.10.92 Bos
 7 05.10.92 Bos
 8 07.10.92 Bos
 9 09.10.92 Bos
 10 11.10.92 Bos
 11 13.10.92 Bos

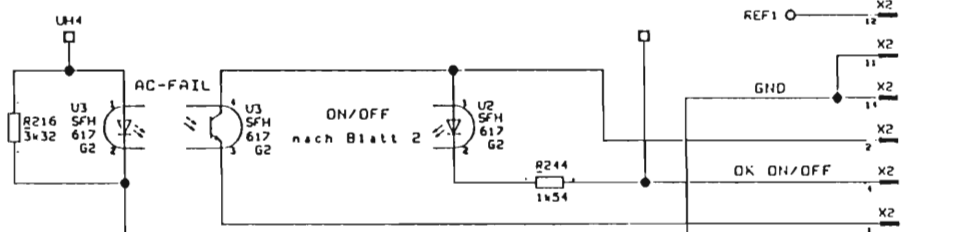
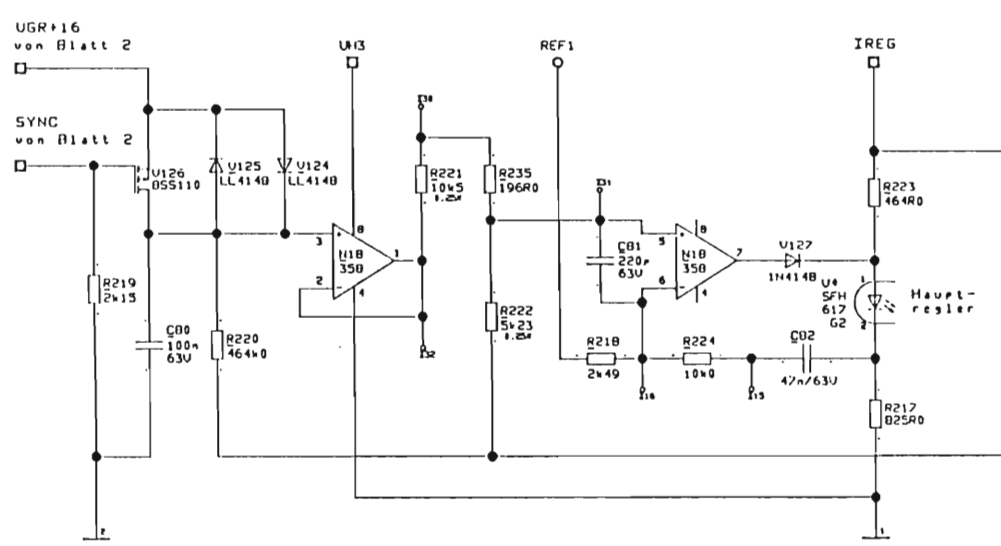


PRIMAERWÄNDLER

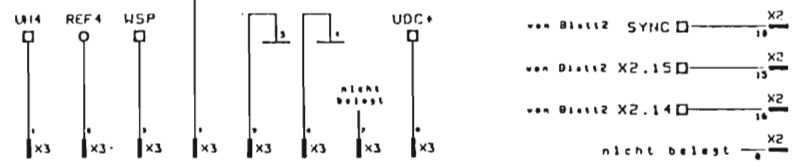
1039.1304.00 S

AI: 01 Bl. 1+

HAUPTREGLER +16V



FLACHSTECKER



PRIMAER-MODUL AP-238.230.00-01

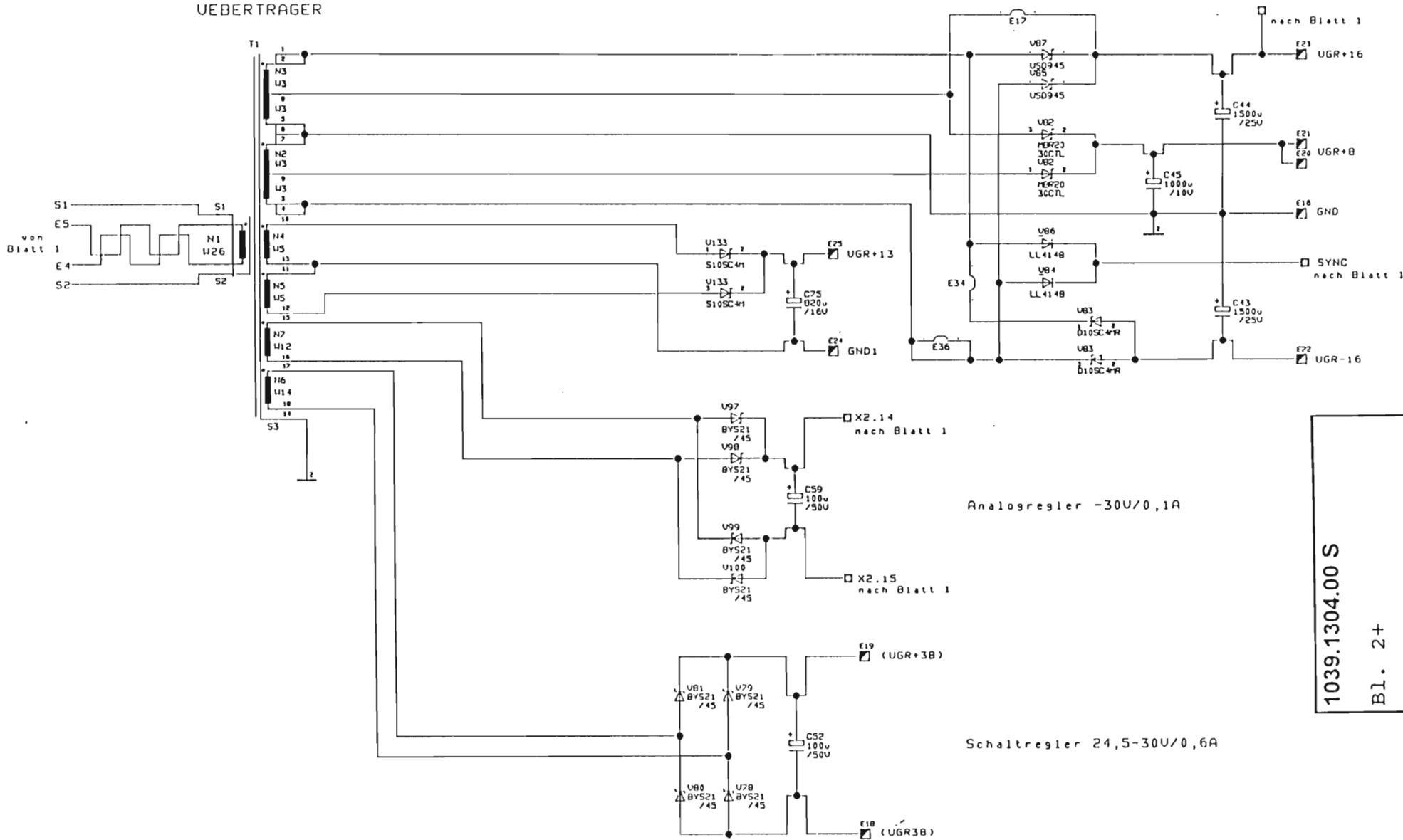
E30

II		PRIMAERWÄNDLER HAUPTREGLER				
Best-Nr.	4	Rev. Nr.	1	AP-238.230.00-01	UI 5	



UEBERTRAGER

HAUPTGLEICHRICHTER



1039.1304.00 S

B1. 2+

AI: 01

3 26.08.92 Bst

4 28.09.92 Bst

PLS GmbH MÜNCHEN

SEE: 01.11.92 053

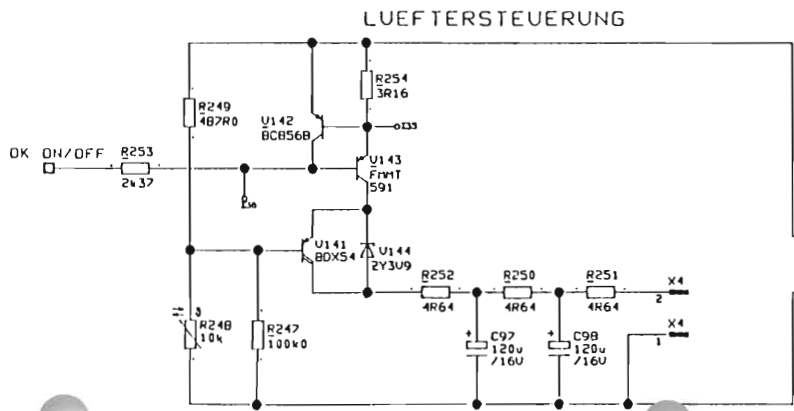
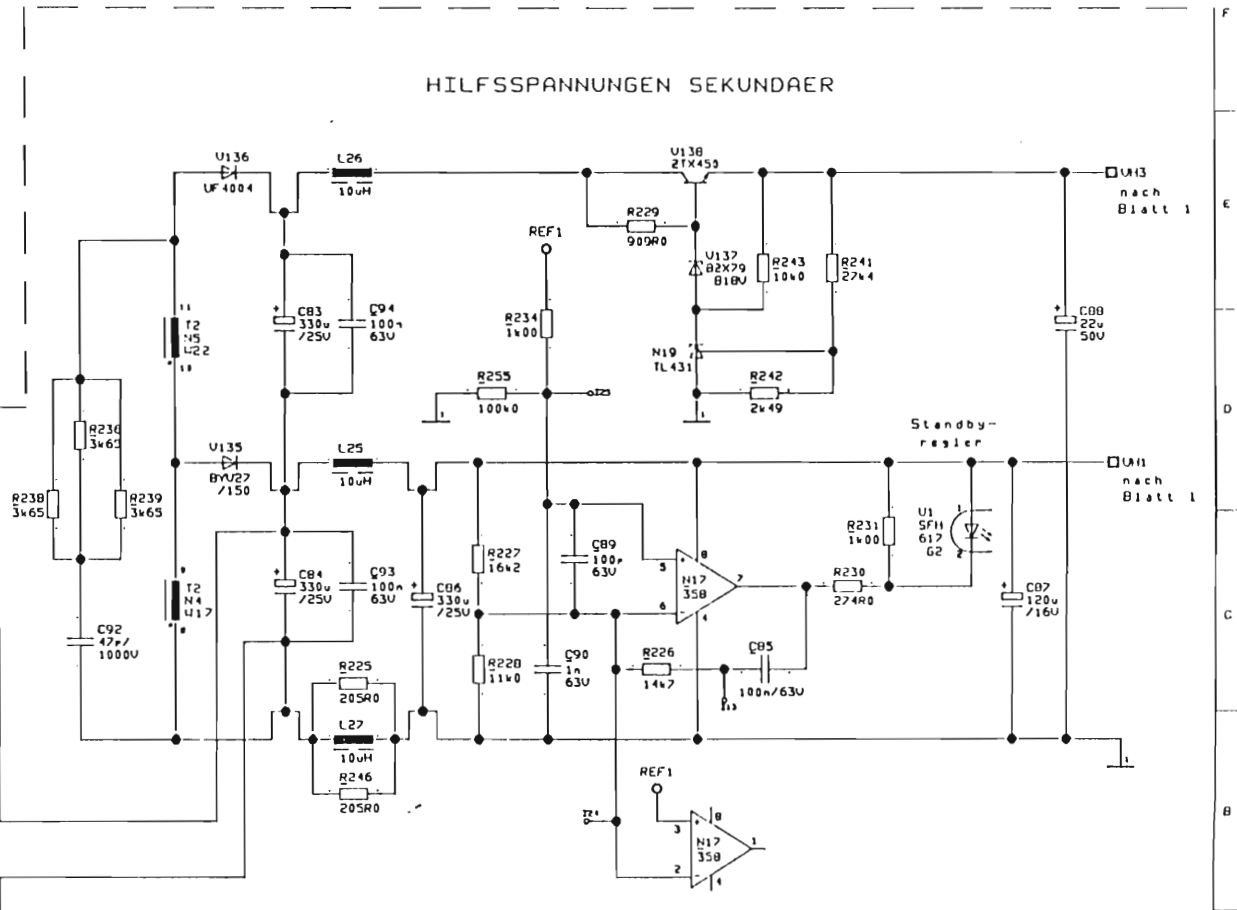
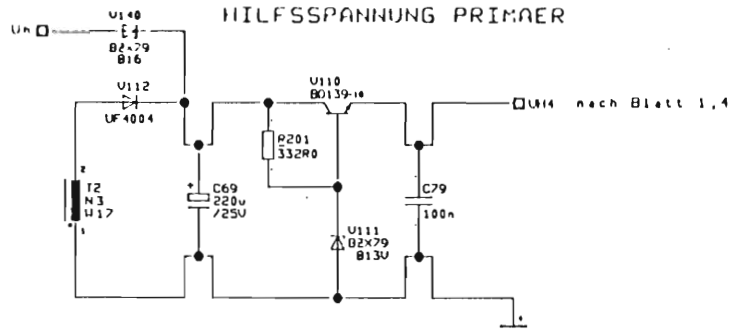
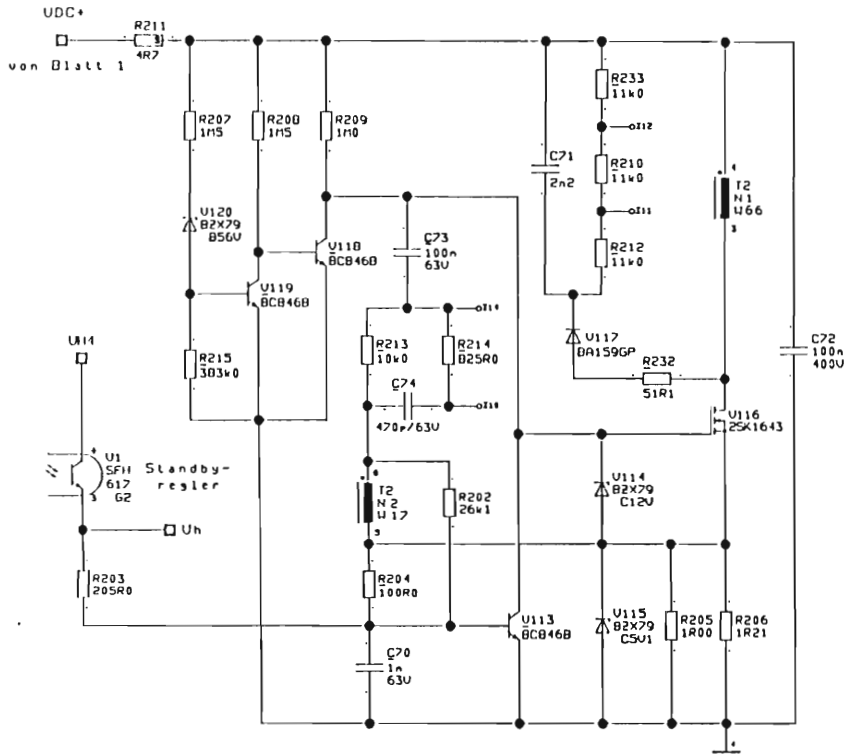
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Erstellt Zeichn. Datum	Benennung			UI 5
	GLEICHRICHTER			
Blatt nr. 4	Blatt nr. 2	AP-2	0.00-S1	





STANDBY-WANDLER



1039.1304.00 S
Bl. 3+
AI: 01

3 26.08.92 Ba3
4 29.09.92 Ba3

PULS GmbH MÜNCHEN

gen. 17.2.97 P.H.S.

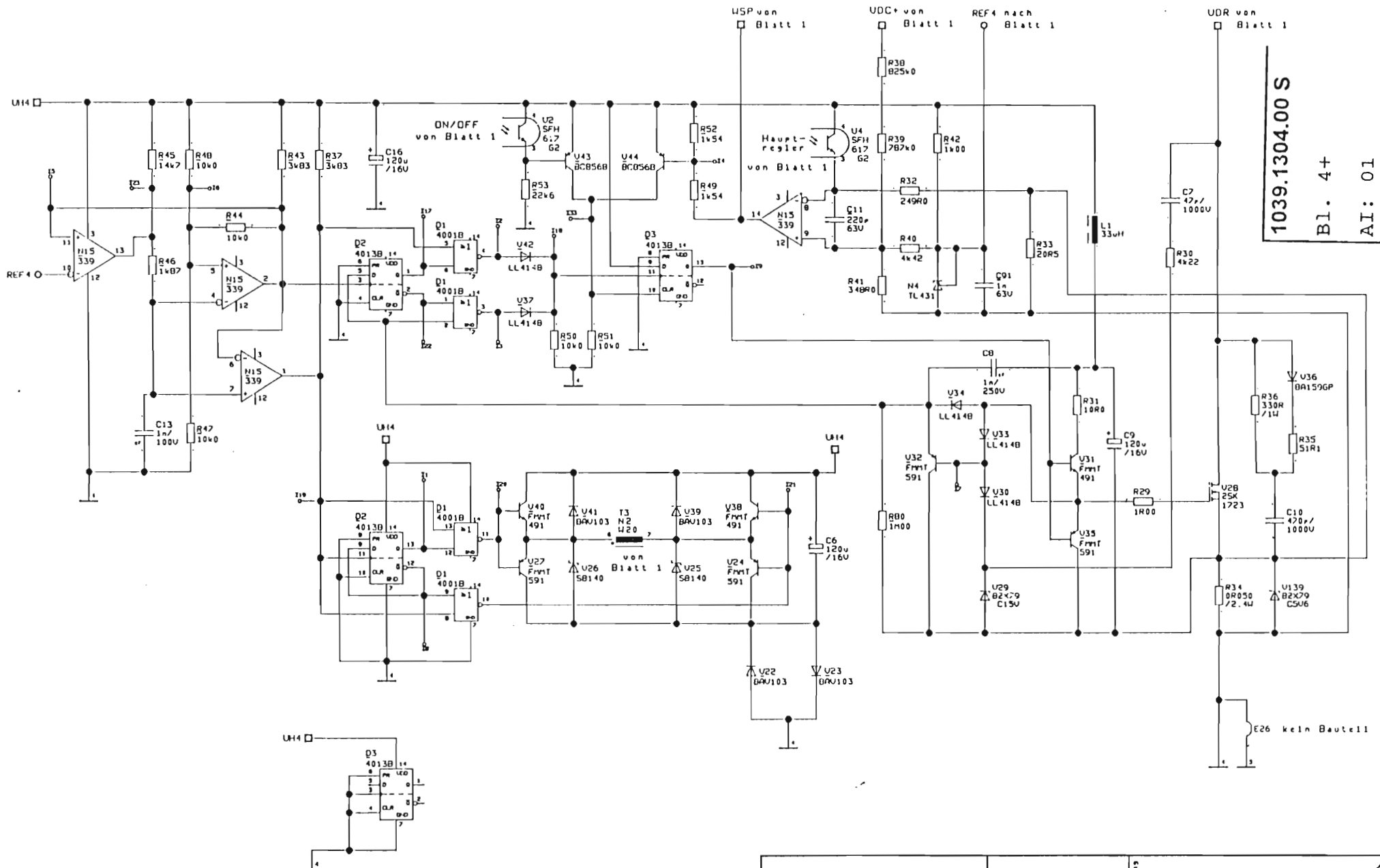
Benennung

Benennung		Standbyspannung HILFSSPANNUNG		U1 S
4	3	AP-2	10.00-SP	

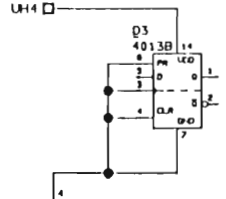


1 2 19.06.92 B03
 3 16.08.92 B03
 4 12B.09.92 B03
 21.03.92 B03
 22.07.92
 1039.1304.00 S
 Bl. 4+
 AI: 01

PRIMAERHANDLER UND REGELUNG



1039.1304.00 S
 Bl. 4+
 AI: 01

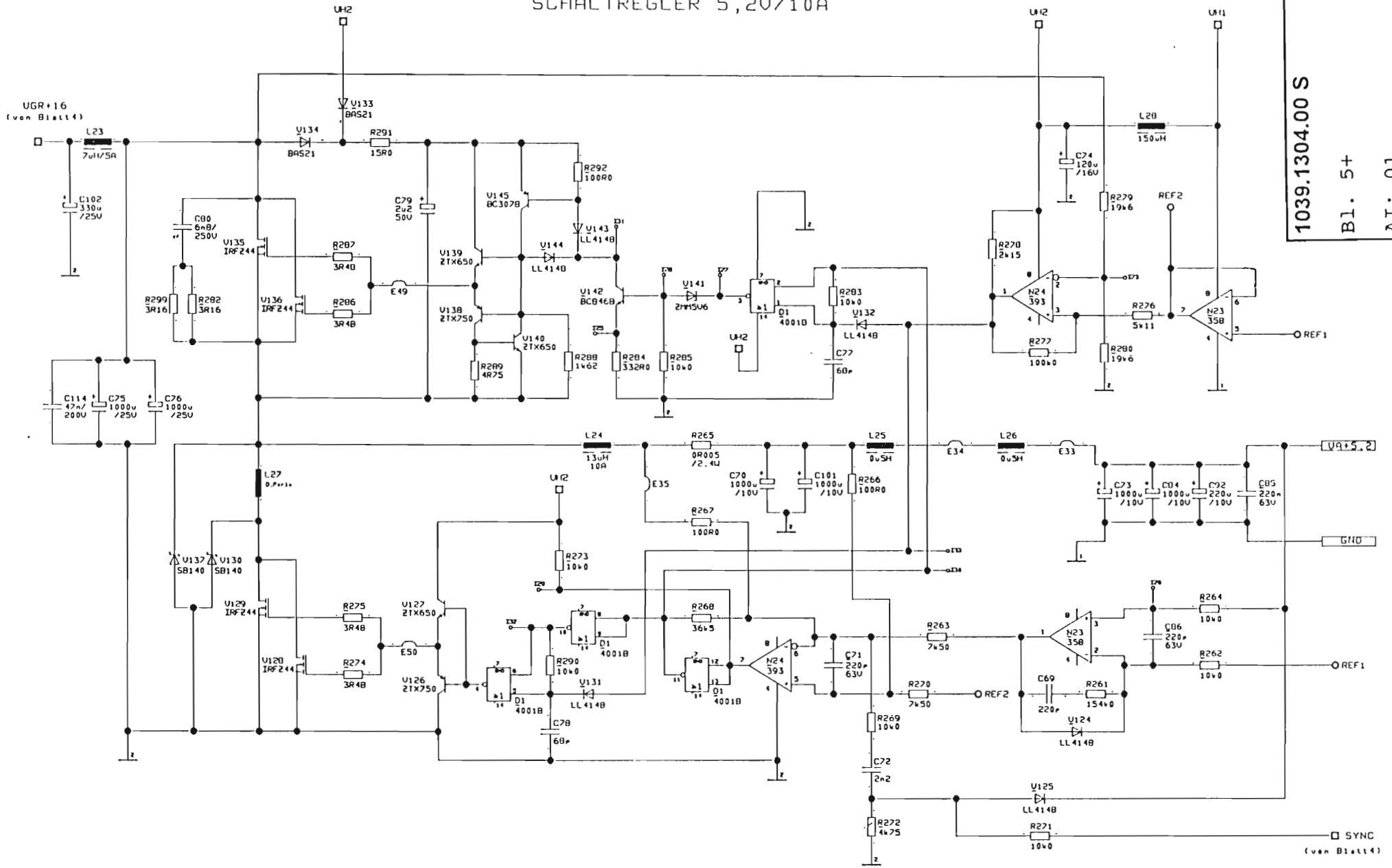


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					UI
					5



3 119.08.92 Bas - 6 17.12.92 Bas
 4 128.09.92 Bas
 MÜNCHEN
 GmbH
 PULS
 gen. 128.97 1.2.14
 Benennung

SCHALTREGLER 5,2V/10A



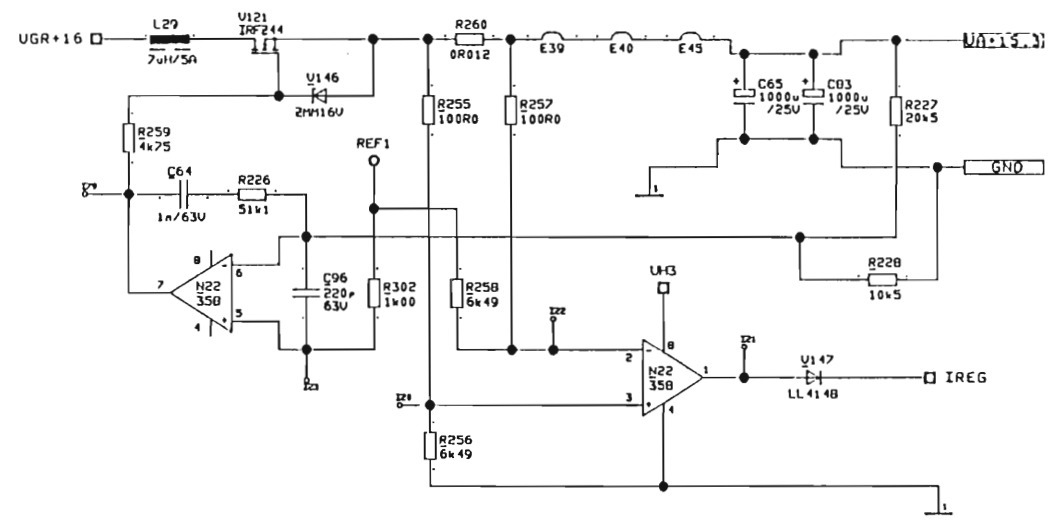
1039.1304.00 S
 B1. 5+
 AI: 01

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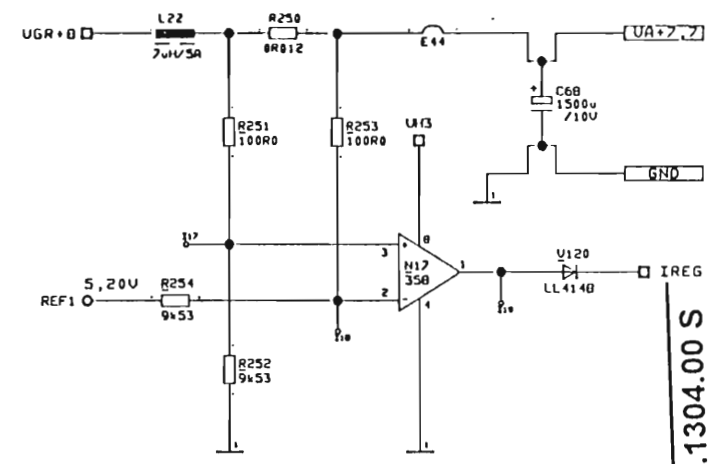


11 10 9 8 7
 1 2 3 4
 103.11.92
 6.17.12.92
 119.08.92
 128.09.92
 GMSH MÜNCHEN
 RUS
 105.04.92
 27.247
 (T1/N6)
 20.00-5P
 VI
 6

ANALOGREGLER 15,3V/5A



STROMBEGRENZUNG +7V/3,5A

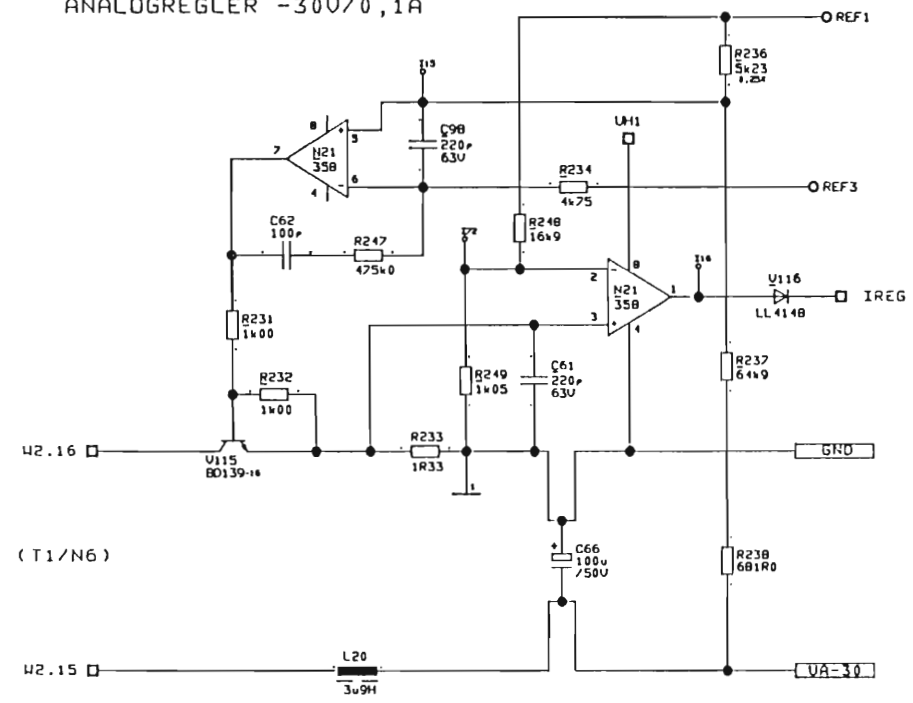


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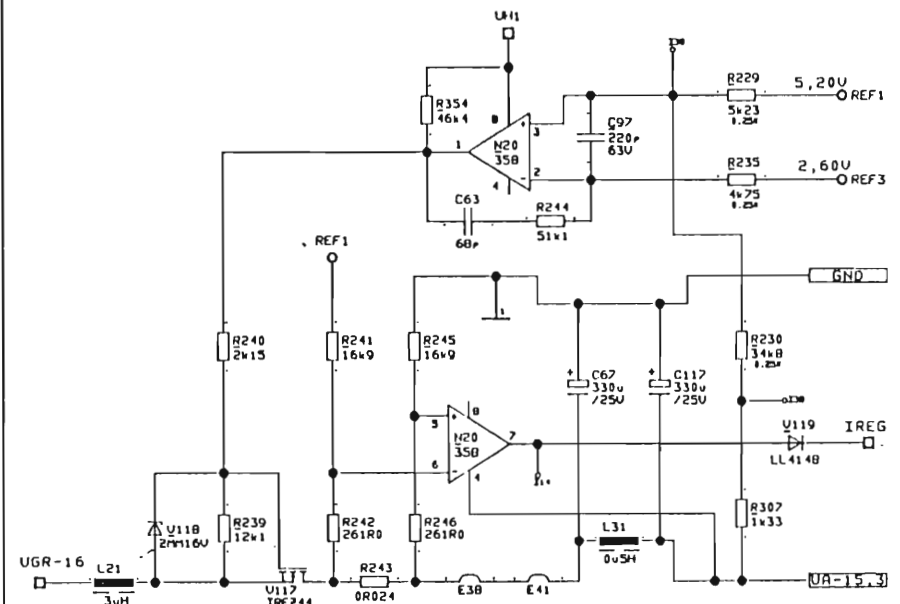
B1. 6+

AI: 01

ANALOGREGLER -30V/0,1A



ANALOGREGLER -15V/2A



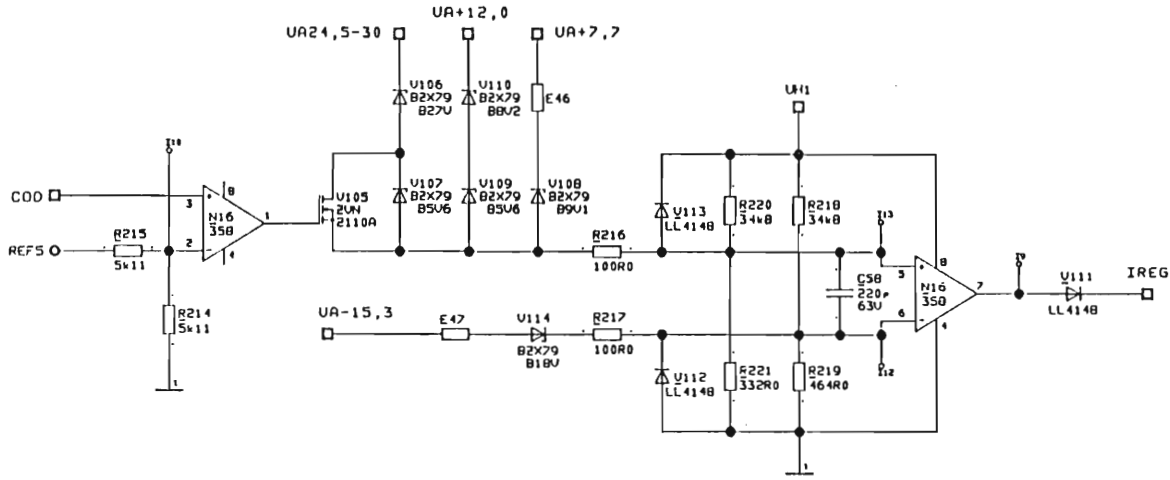
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 -15V/2A
 -30V/0,1A
 I-BEG. 7U/3,5A



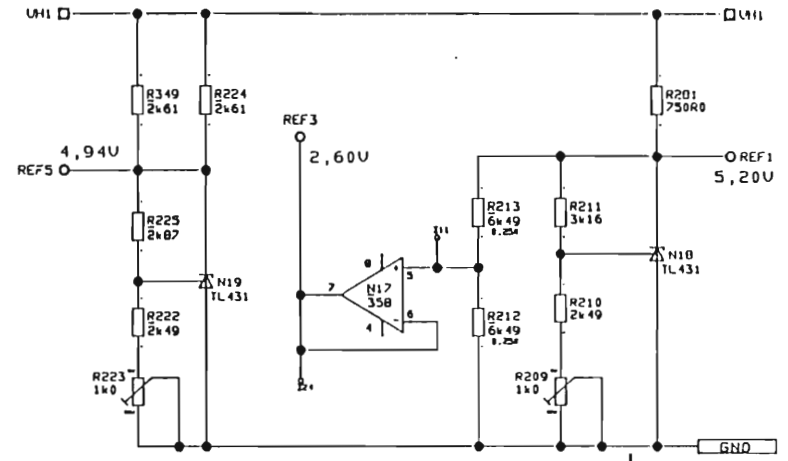
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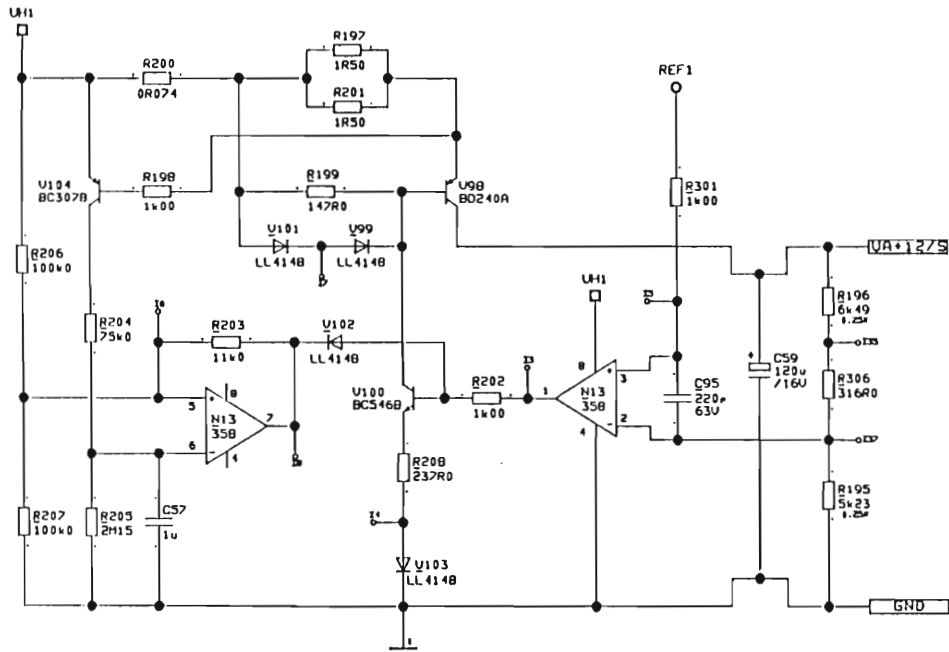
ZUSATZ-UEBERSpannungSSCHUTZ



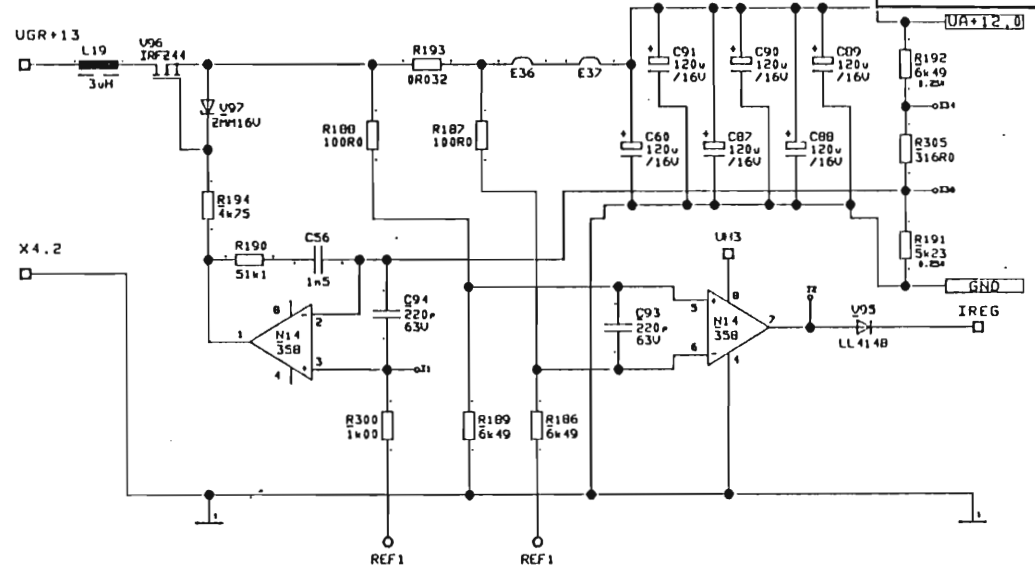
REFERENZERZEUGUNG



STANDBYSPANNUNG 12V



ANALOGREGLER +12V/2A



1039.1304.00 S

Bl. 7+

AI: 01

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 6 117.12.92 B03
 19.08.92 B03
 129.09.92 B03
 MÜNCHEN
 GmbH
 176.293 P.4
 1039.1304.00 S
 Bl. 7+
 AI: 01

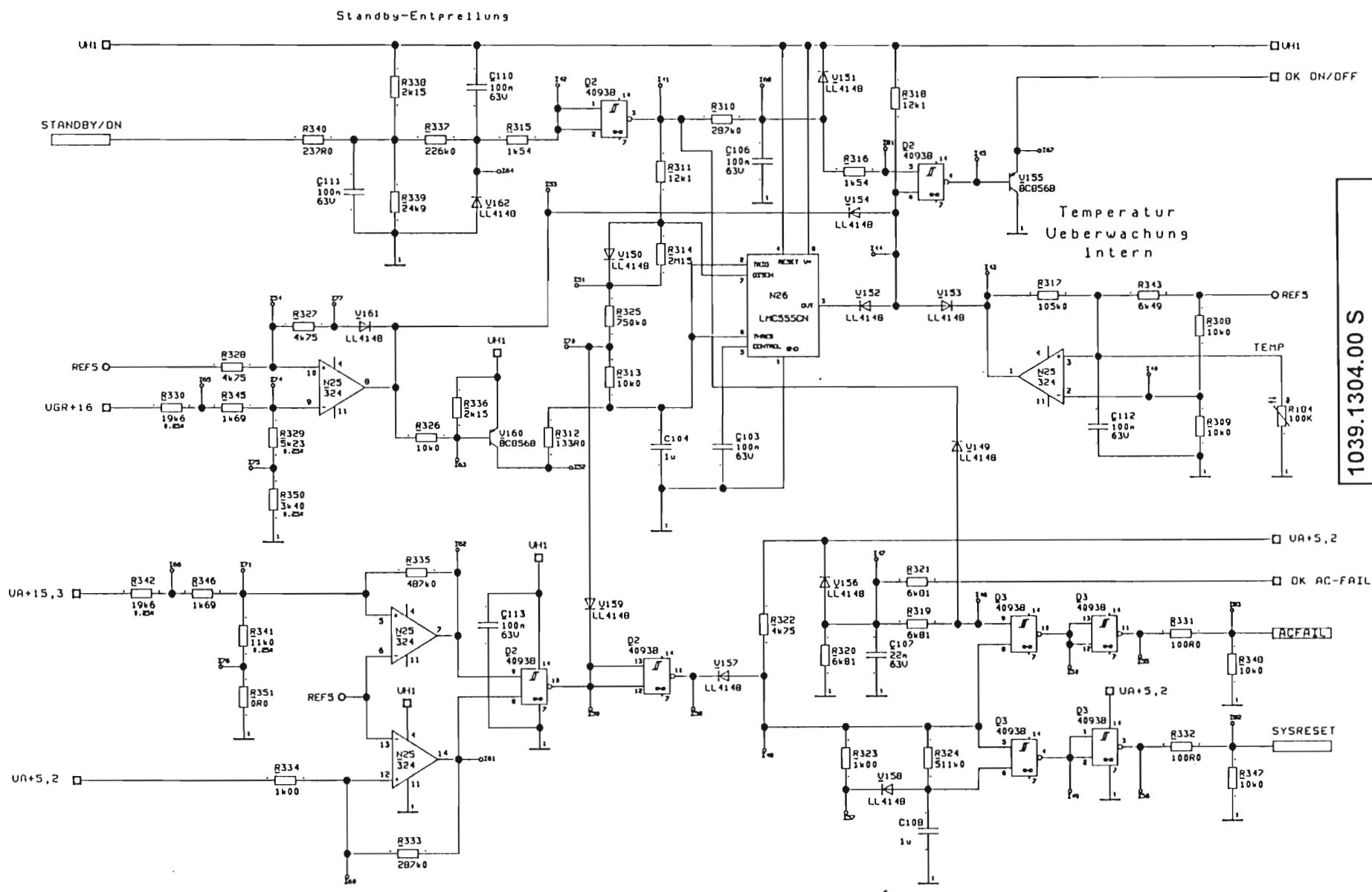
Erstellt von	Berechnung			UI 6
	Blatt 6	Blatt 3	AP-2 10.00-SP	
ÜBERSpannungSSCHUTZ REFERENZERZEUGUNG REGLER 12V/2A STANDBY 12V				
.....				



11 10 9 8 7 6 5 4 3 2 1
 6.17.12.92
 19.08.92
 28.09.92
 16.2.03
 16.2.03
 16.2.03

RLS GmbH MÜNCHEN
 RLS

16.2.03
 16.2.03



Standby-Entprellung

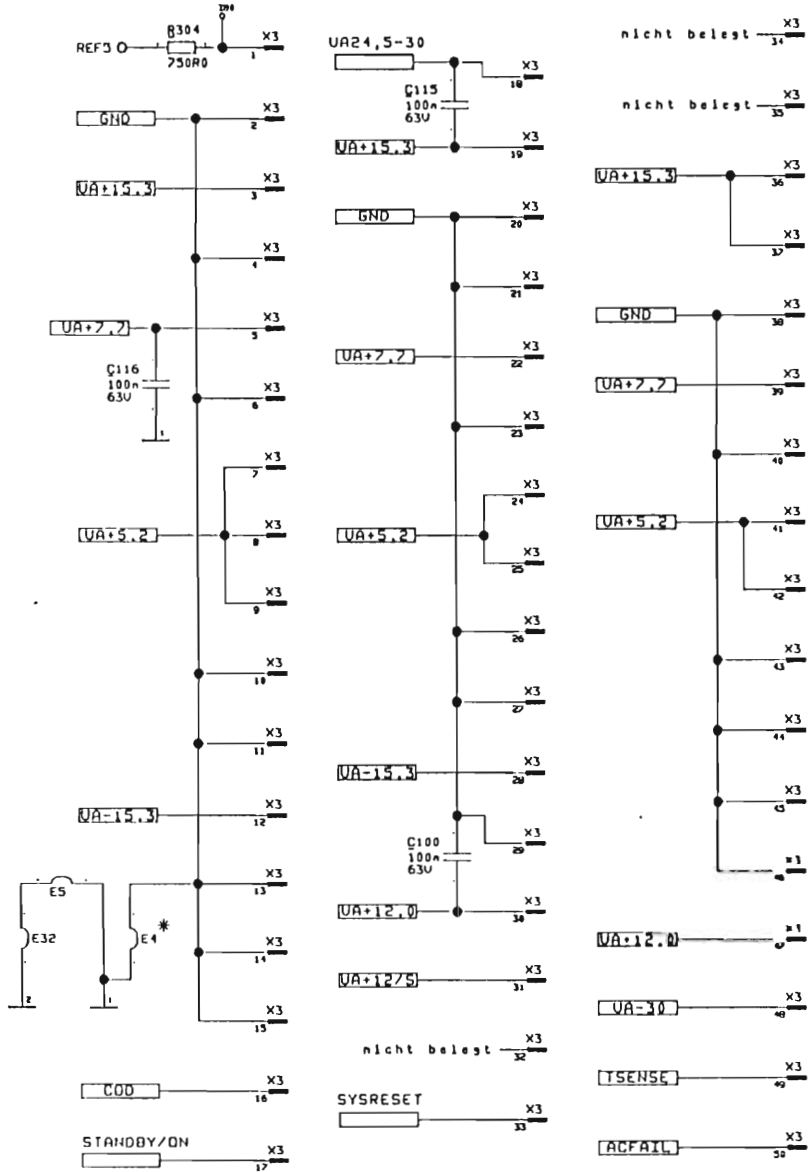
Temperatur Ueberwachung Intern

1039.1304.00 S
 Bl. 8+
 AI: 01

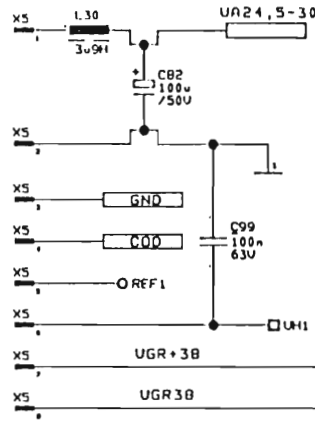
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UI					6



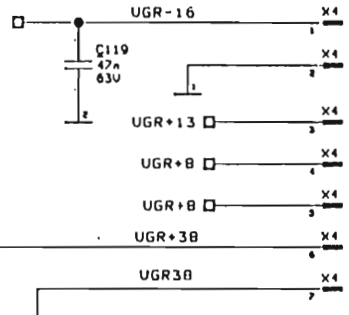
AUSGANGSSTECKER



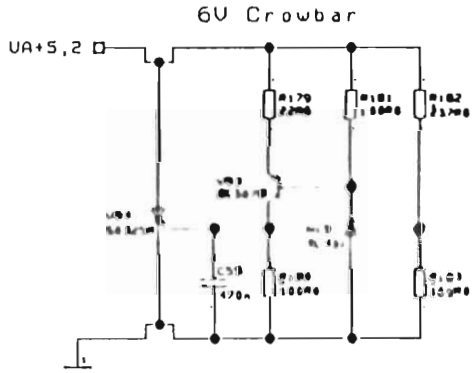
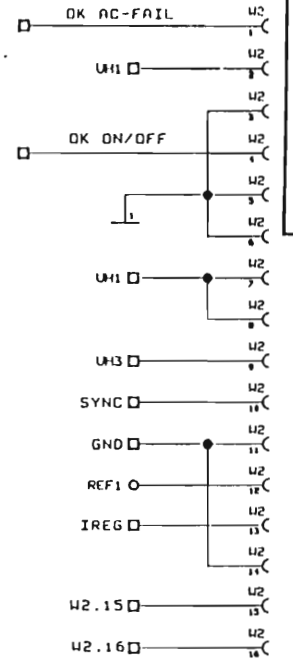
MODUL 1
(AP-230.240.00-01)



LP-VERBINDER
(AP-230.210.00-01)



FLACHBANDKABEL
(AP-230.210.00-01)



084.05.04.92 509
 19.08.92 885
 128.09.92 885
 17.12.92 885
 128.09.92 885
 128.09.92 885
 RULS GMBH MÜNCHEN
 17.12.92
 128.09.92
 128.09.92
 128.09.92

1039.1304.00 S


AI: 01 Bl. 9+

* E4 ist kein Bauteil
 [] Signale sind aus dem Gerät herausgeführt
 [] Signale sind im Gerät verwendet

Gratz		Benennung	AUSGANGSSTECKER & LP-VERBINDER		
Gratz-Nr.	Gratz-Besch.		Best-Nr.	Best-Nr.	AP-20.00-SP
		6	5	AP-	20.00-SP
					UI 6



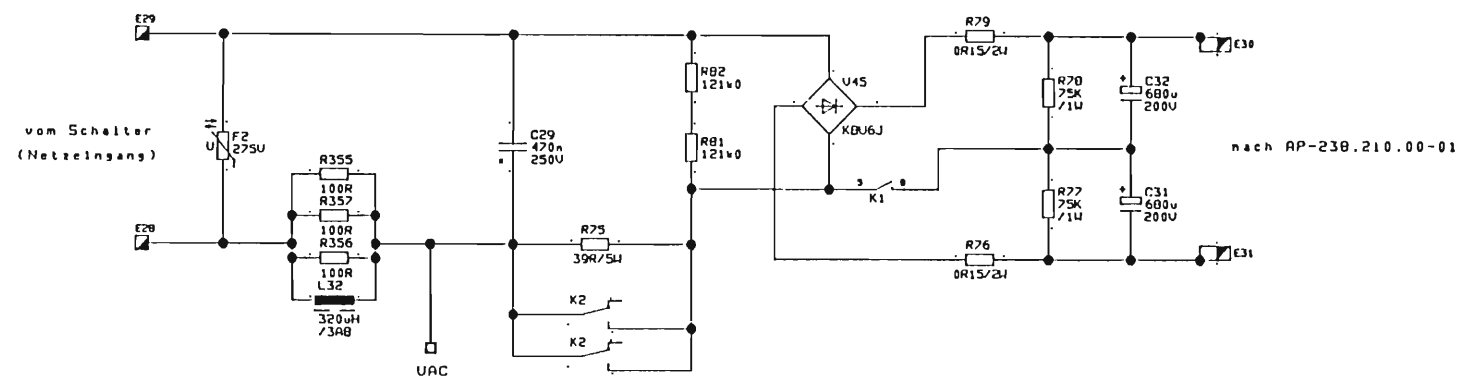
2	19.06.92	Boz	5129.10.92	Boz
3	19.08.92	Boz	617.12.92	Boz
4	28.09.92	Boz		


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ser.	105.04.92	Boz
sepr.		
gen.	176797	124/L

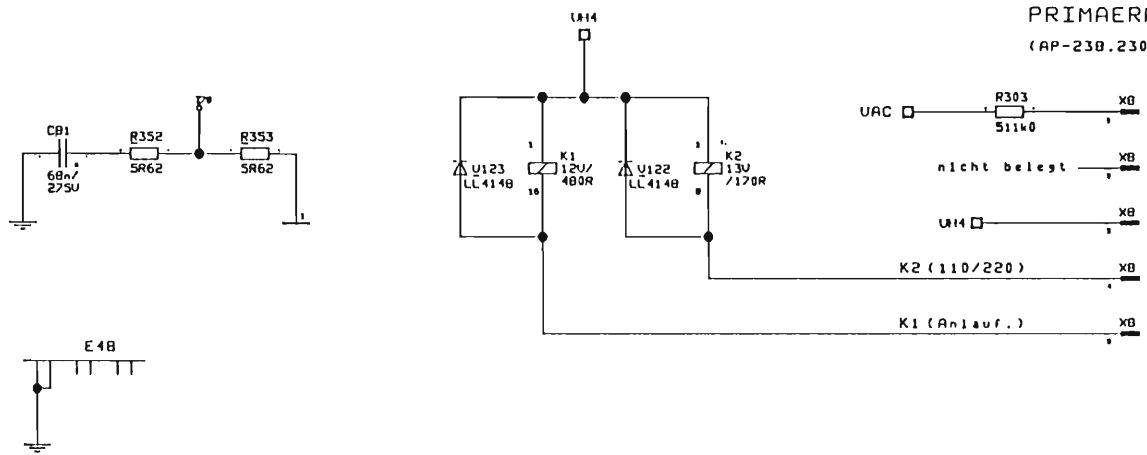
Benennung

NETZFILTER



1039.1304.00 S
 B1. 10+
 AI: 01

PRIMAERMODUL (AP-230.230.00-01)



Erst- herm.		Benennung	PRIMAERFILTER GLEICHRICHTER		
Best- nr.	6	Best- nr.	6	AP-220.00-SP	
					UI 6

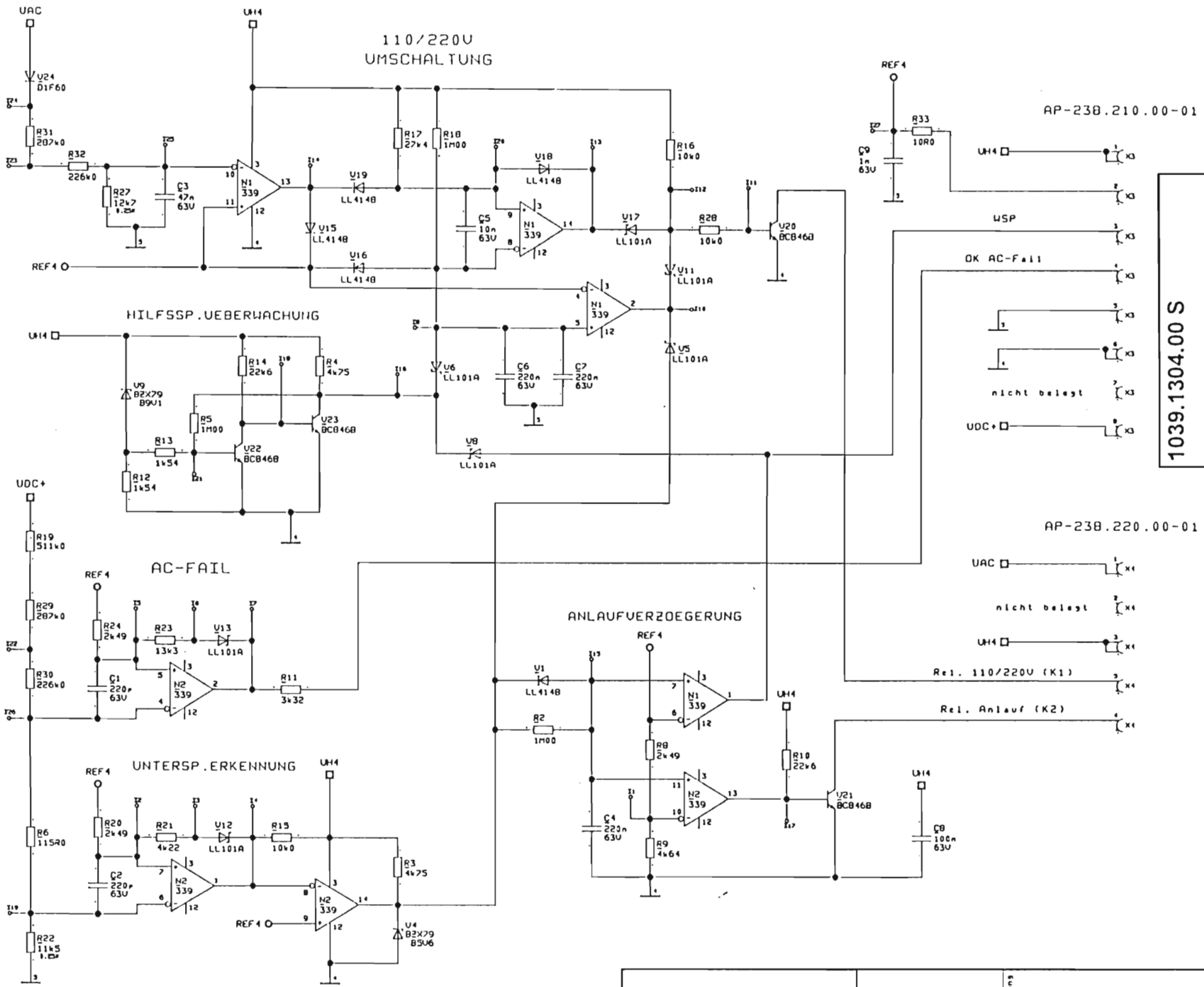


1 1.13.05.92: Bas

STR GMBH MÜNCHEN

ser. 119.03.92 JONAS
gen. 15.07.75

Benennung
PRIMAERLOGIK



AP-238.210.00-01

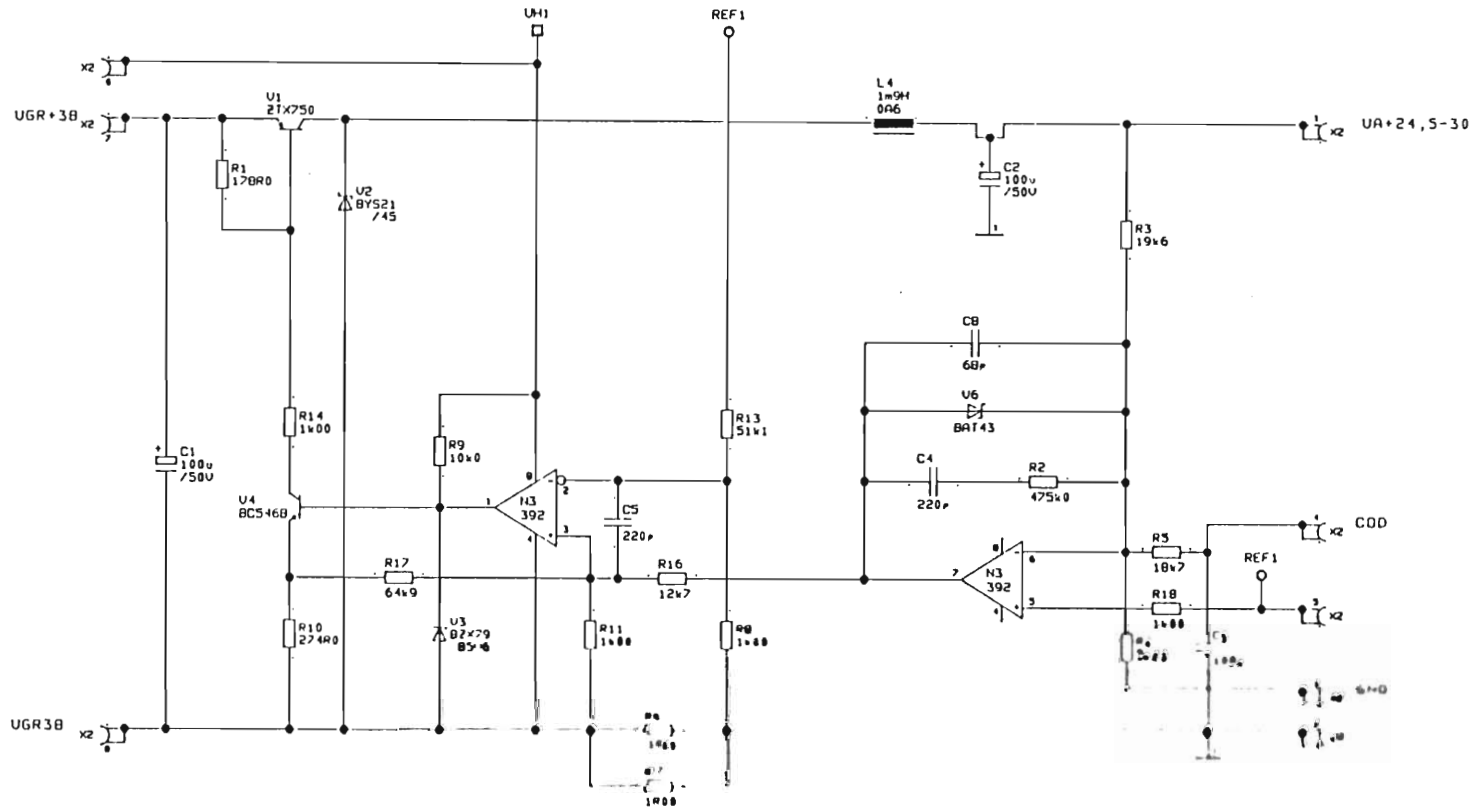
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Bl. 11+
AI: 01

AP-238.220.00-01

Benennung		PRIMAERLOGIK	
Best. Nr.	1	Best. Nr.	1
AN-	30.00-SP	UT	2



SCHALTREGLER 24,5-30V/0,6A



1039.1304.00 S
Bl. 12-
AI: 01

988. | 25.03.95 | Box
172 | 26721
1000 |
1000 |

SMG GmbH MÜNCHEN

CLP

II		Stand: 15.06.		CLP		SEKUNDAERSTUFE 1	
Gezeichnet	Geprüft	Benennung	1	1	CP-24.5-30.00-SP	VI	2



gez.	2	3.92	KUZ	1		27.03.92	KUZ
gepr.				2		15.06.92	Hav.
gen.	15.10.92	Ro4y		3	-	31.01.98	Bo9

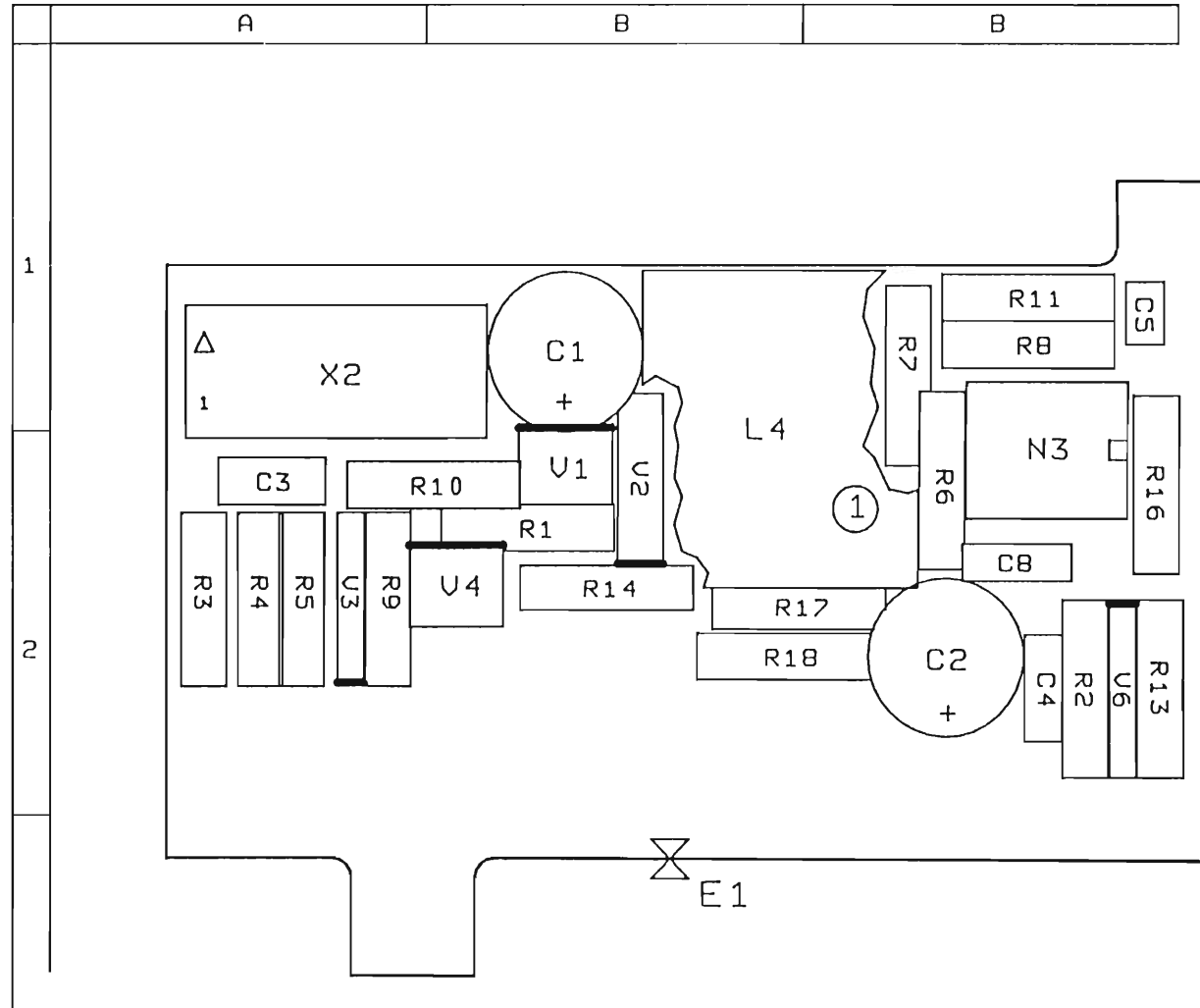
Jeder vervielfältigt, noch Dritten zugänglich gemacht werden, und sie darf durch den Empfänger oder Dritte auch nicht in anderer Weise missbräuchlich verwendet werden.

PULS GmbH MÜNCHEN

Ersatz durch	Ersatz fuer

Blatt-nr.	BENENNUNG	RP-239.243.00-EG
	BLP	
Blatt-nr.		
		3

1039.1304.00
 Bl. 1+
 AI: 01



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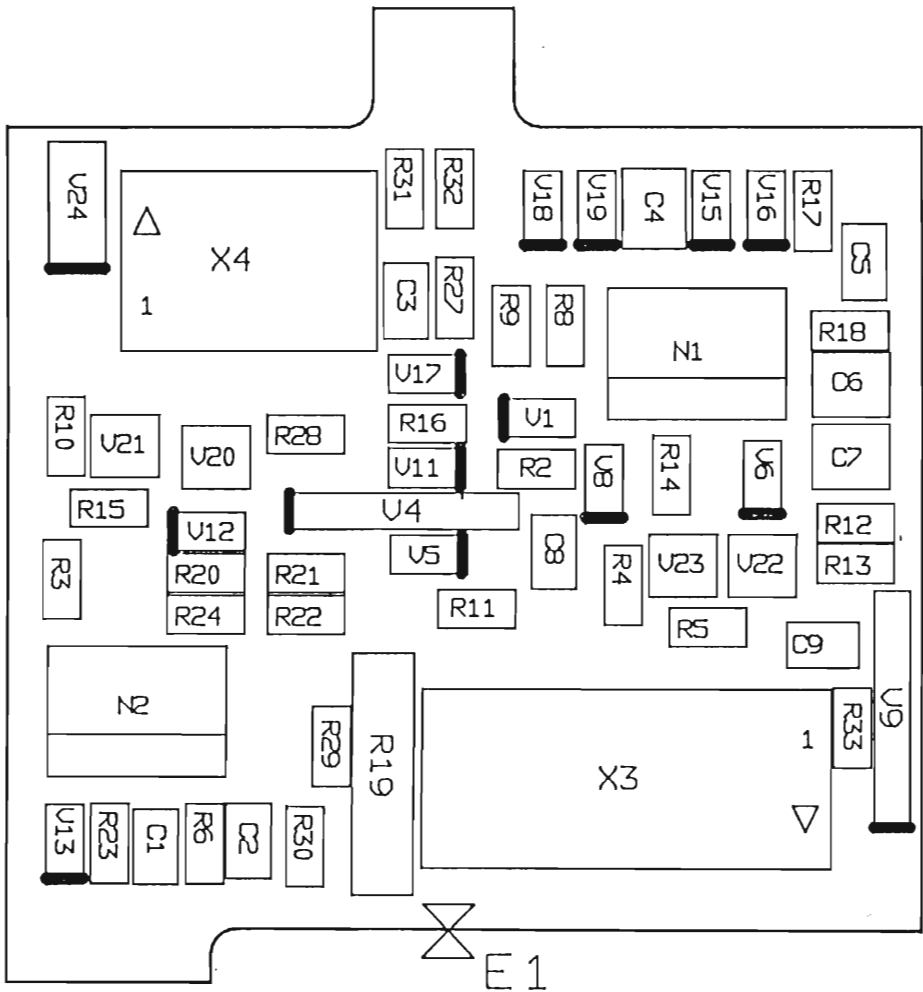


Ohne unsere vorherige Zustimmung darf diese Unter-
 weder vervielfachtigt, noch Dritten auszuschließlich gemein-
 werden, und sie darf durch den Empfänger oder Dritte auch
 nicht in anderer Weise missbräuchlich verwendet werden.

PULS GmbH MÜNCHEN

	Datum	Name	HM Nr.	Datum	UI	Name
gez.	17.03.92	JONAS	-	31.08.92	3	Bog
gepr.			-	02.10.92	4	Bog
gen.	5.10.92	Dels				

HM Nr.	Datum	UI	Name	HM Nr.	Datum	UI	Name



1039.1304.00
 Bl. 2+
 AI: 01

Ersatz durch	Ersatz fuer

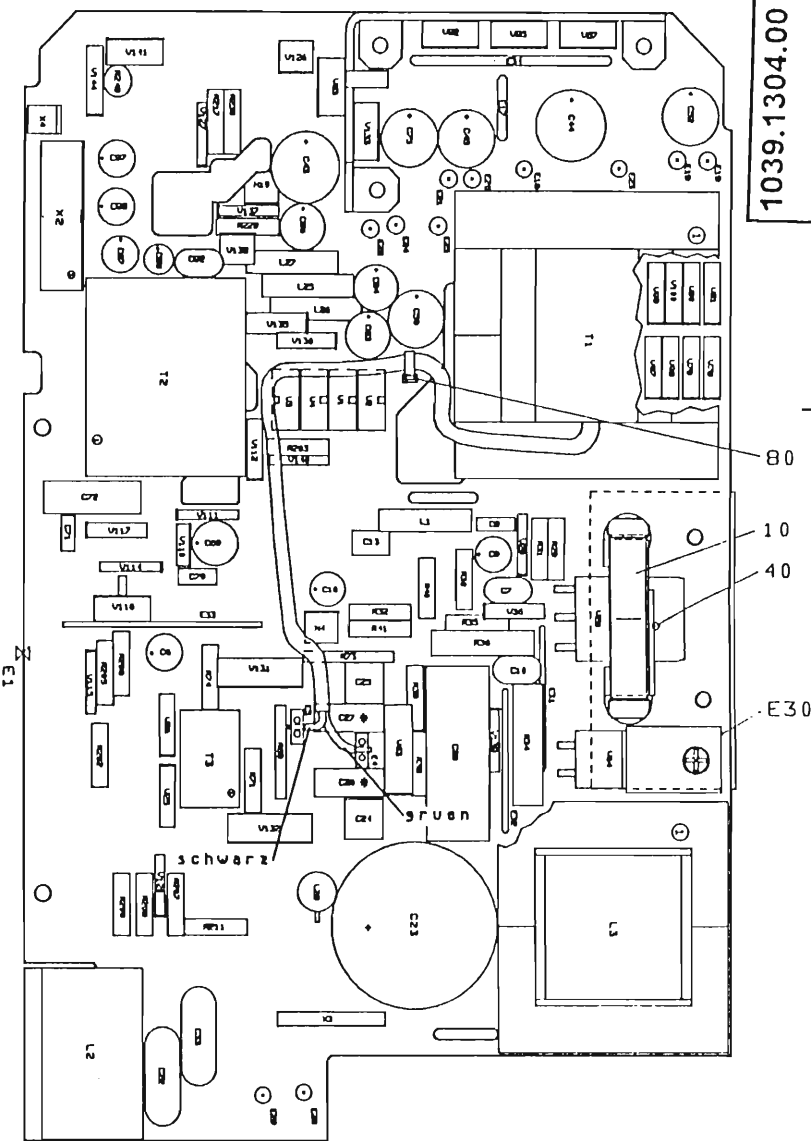
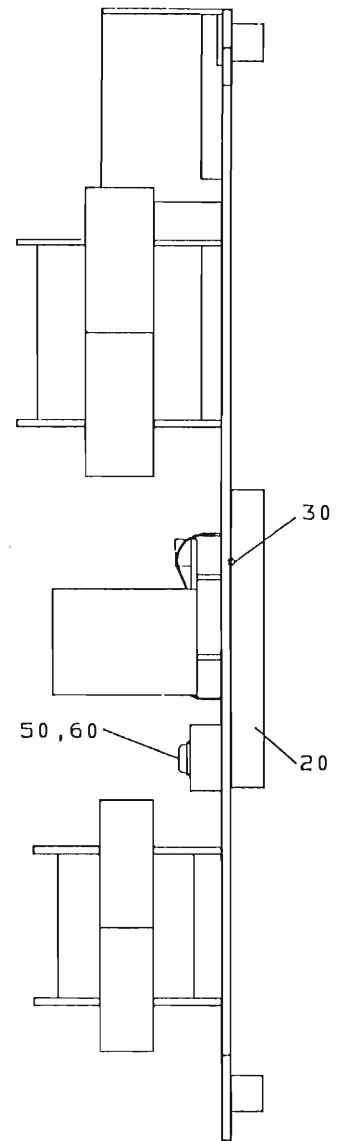
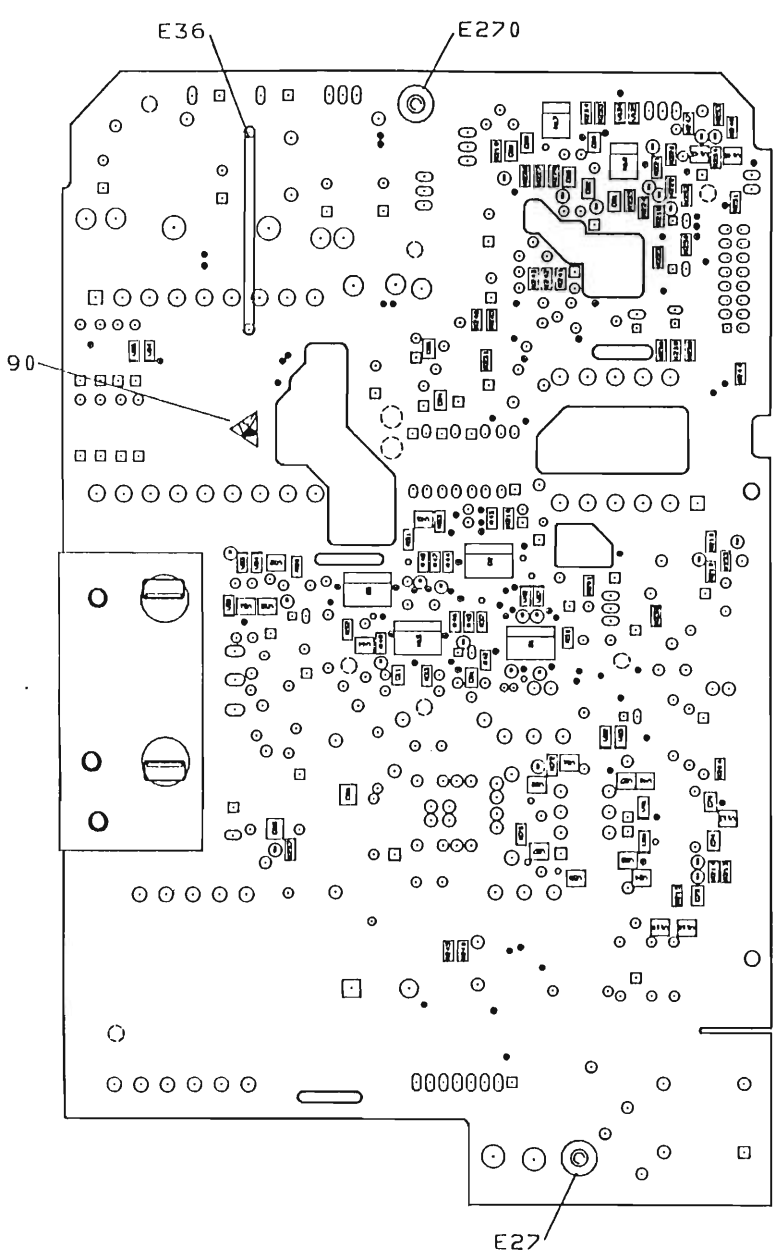
Blattzahl: BENENNUNG: **SMDM-BLP**
 AP-238.230.00-ES

1 2 3 4 5



4





- E27 und E270 in LP eingepresst
- Pos.20 mit Pos.30 montiert
- Auf Lase der Trafoleitung achten
- Anschlussdraethe von Trafo durch Loecher von Stezu gesteckt, umgebogen und verlötet
- Pos.90 unteralb der LP-Nummer aufgeklebt
- Loetueberstand max. 3mm, LP gewaschen

Erstellt	Erstellt durch	Benennung	SMDM-CLP	
AP-1	10.00-26	UI	5	



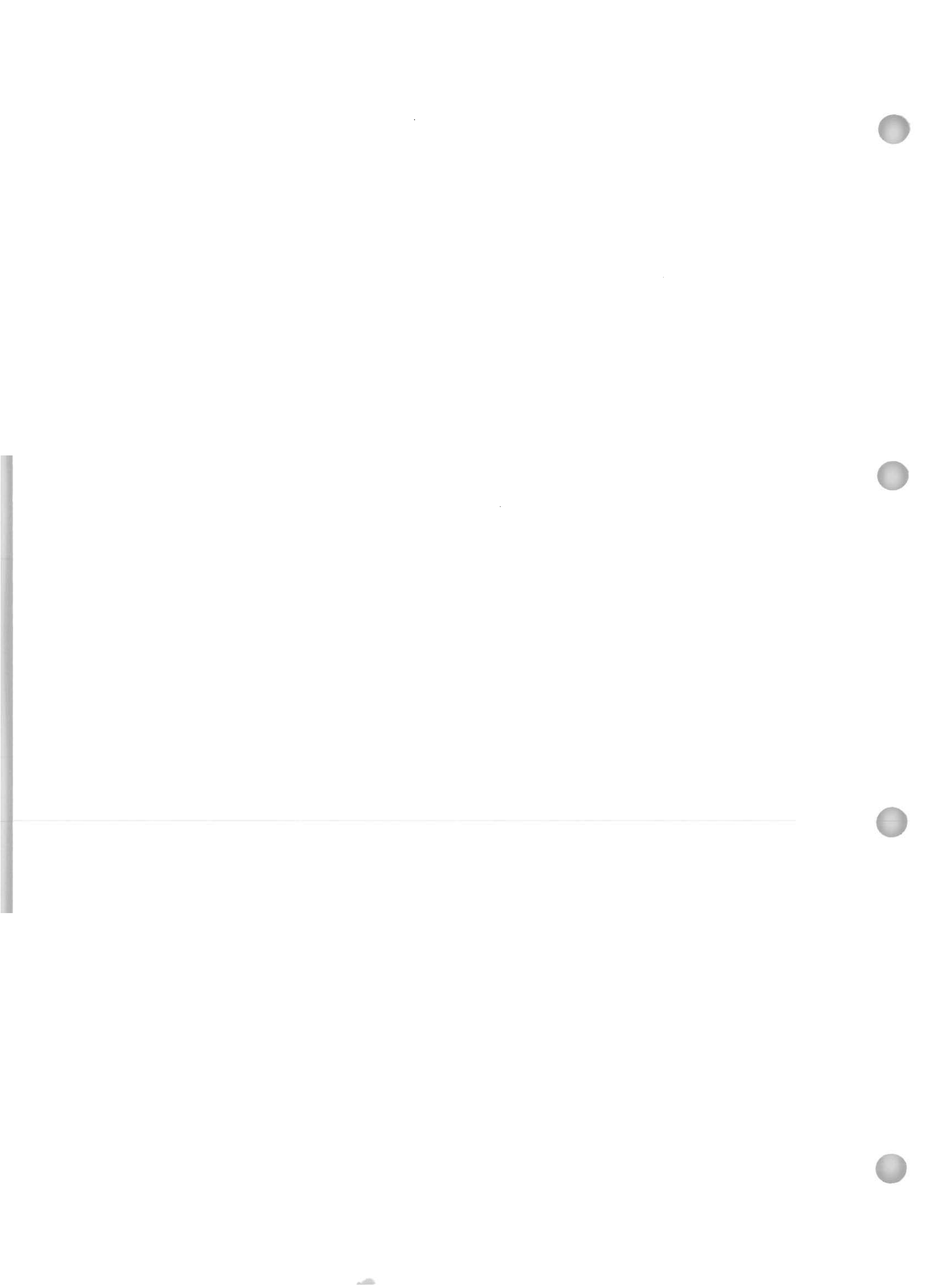




ROHDE & SCHWARZ

SERVICE DOCUMENTS
DDS-Clock Generator CMD-B84

1099.5806.04



Contents

	Page
7 Service Instructions for DDS-Clock Generator CMD-B84.....	7.1
7.1 Function Description.....	7.1

Installation Instruction

- Parts lists
- Circuit diagrams
- Component layout diagrams



7 Service Instructions for DDS-Clock Generator CMD-B84

7.1 Function Description (See circuit diagram 1097.3870 S)

The board CL_DDSDGEN generates Clock-Signals, which can be set in a range from 21 MHz to 42 MHz with a resolution ≤ 1 Hz.

In normal mode this clock can be set to a netspecific rate (oversampled symbol rate), e.g. to 24.8832 MHz (1024* symbol rate) for IS-136 Network.

This clock signal and some divided are used as timebase for modulation/demodulation and measurement purposes. Therefore it is routed to the LH-Board and to the DDC-Board.

Please note:

The netclock for CDMA network is directly generated on the LH-Board. The CL_DDSDGEN-Board routes the actual valid source of the clock for the DDC-Board.

SUB-Modules on board CL_DDSDGEN

VCO

The main VCO for the clock generator delivers a frequency in the range 84 MHz to 168 MHz. This Clock will be divided by 4, to generate the wanted DDCLOCK-Frequency (21 MHz to 42 MHz) at X10/C13.

DDS

The fine frequency tuning will be done by a specific DDS-Chip ('Direct Digital Synthesizing'), which generates output frequencies between 9 MHz and 12 MHz.

These frequencies are synchronized to CMD80-108 MHz-Frequency via a divider 1/3.

PLL and Fractional Divider

The DDS output frequency (9 to 12 MHz) will be routed to the Phase-Detector. The second input of the Phase-Detector is driven by a signal, that is produced by a fractional dividing of the VCO frequency.

Switch of Netclock source

The DDCCLK at X10/C13 can be switched either to the internal generated clock, or to the LHNETCLK at X10/B4 for CDMA network, that is generated on the LH-Board.

Phase shift of the LHNETCLOCK

The LHNETCLK at X10/B4 can be shifted in the range 0° to 360° and be output at X10/C15 as LHIQCLK.

Control and Diagnosis

The CL_DDSDGEN-Board is controlled via serbus.

- Submodule on/off
- Initialisation of the DDC-Chip and Fractional Divider
- Divider setting of NETCLOCK-PLL
- Diagnosis Multiplexing

The diagnosis multiplexer can be switched to various sources like Temperatur, VCO-Tuning Voltage.




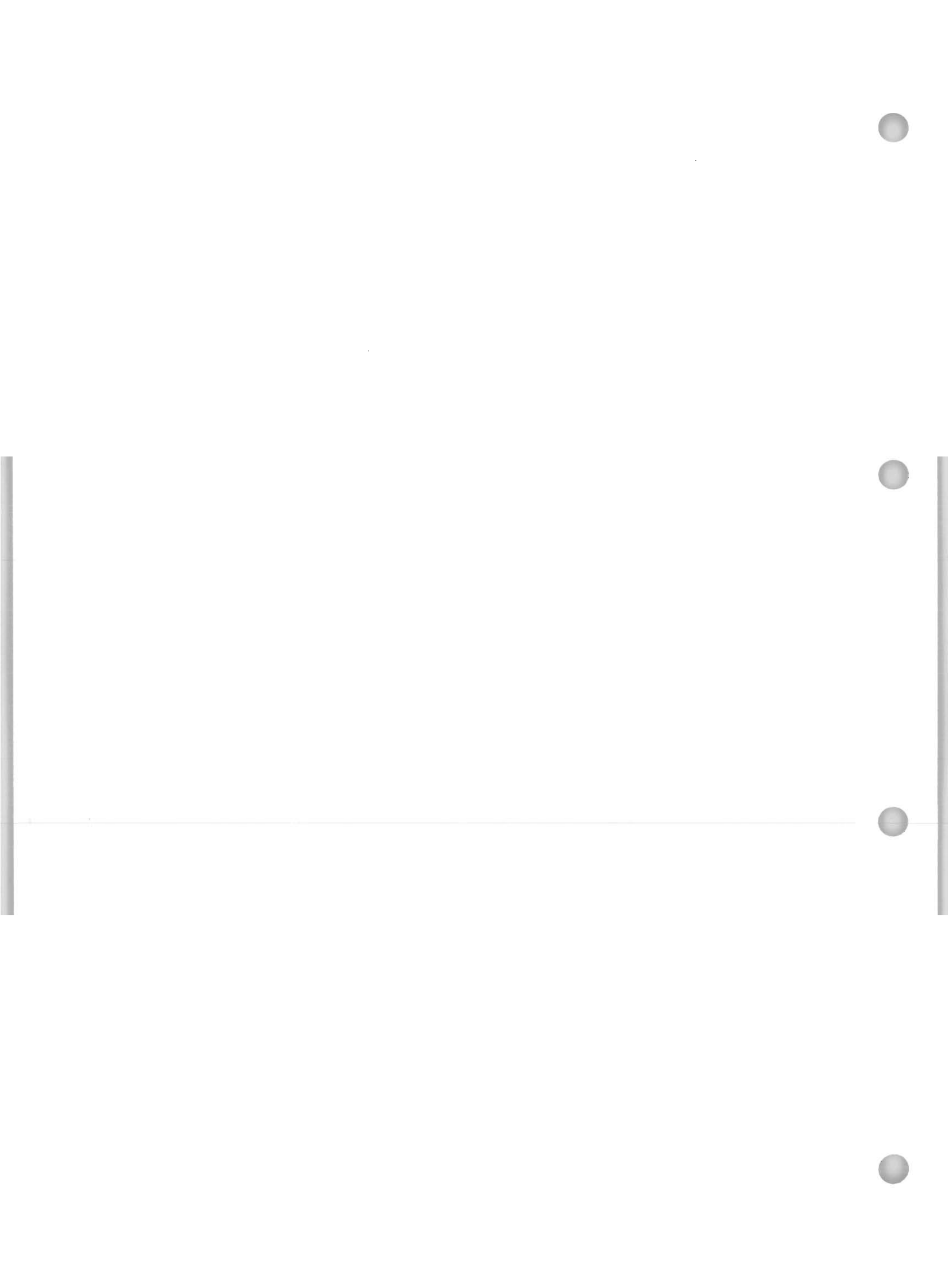
Installation Instruction for Option CMD-B84

Note: Option CMD-B84 is also required for installation of CMD-B82.

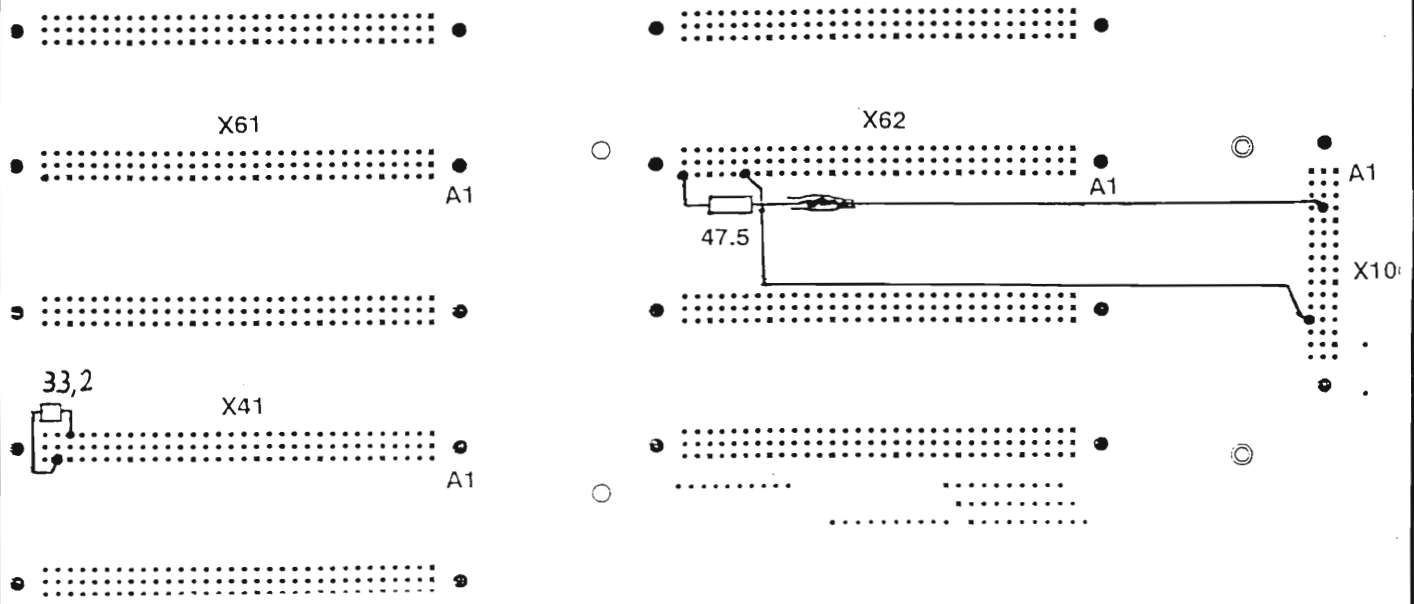
1. Undo the four countersunk Phillips screws in feet of unit and pull off feet towards rear.
2. Remove upper cover towards rear.
3. Remove RF cable from Digital Down Converter module A6 (5th slot, seen from front panel) and withdraw module from unit.
- 4.1 Make following modification only for Digital Down Converter 1051.2407 with modification index ≥ 15 :
 - Remove jumper X3 (IQ-CLOCK) and X4 (NETCLOCK).
 - Stick label „Jumper X3/X4 are removed for use in option CMD-B84“ on the shielding near the barcode label.
- 4.2 Make following modification only for Digital Down Converter 1051.2407 with modification index < 15 :
 - Unscrew shielding cover at top and bottom.
 - Remove following pins in connector: X61 A pin 32 (IQ-CLOCK) and X62 A pin 32 (NETCLOCK).
 - Additional modification if not factory-fitted already:
 - Add the wire on soldered side: X62 A pin 32 to X62 A pin 27
 - Fix newly run wire.
 - Remove AMPS Routing Board 1059.4396 and replace FPGA D1 (1059.4421) by the version supplied as accessorie (according to sheet 3).
 - Exchange R207 ---> 0Ω 007.5108 (according to sheet 4).
 - Exchange GAL D20 (1051.2488) with the version from accessorie (according to sheet 4).
 - Reinsert the AMPS Routing Board into the module.
 - Replace RF cover and sticks new label onto the previous plate.

Digital Down Converter:		Label:
1051.2407.02	----->	„12“
1051.2407.04	----->	„14“
 - Stick label „modified for CMD-B84“ on the shielding near the barcode label.
5. Reinsert the module into the slot and connect RF cable.
6. Insert the CMD-B84 CL_DDSDGEN (1097.3870.02) into the slot provided X10, from motherboard.
7. Retrofitting motherboard 1051.2220 (according to sheet 3):
 Add the following wires:
 - Resistor ($47,5 \Omega$) from X10 B pin 4 to X62 A pin 32 (LH NETCLK).
(Note: Component fitting near X62 A pin 32)
 - X10 C pin 13 to X62 A pin 27 (DDC CLK).
 - Resistor ($33,2 \Omega$) from X41 A pin 31 to X41 C pin 30
 - Fix newly run wires.
8. Reassemble the unit in reverse order.
9. Stick the option label to the power supply on the rear of CMD.
10. Check unit and load latest software (> V???)

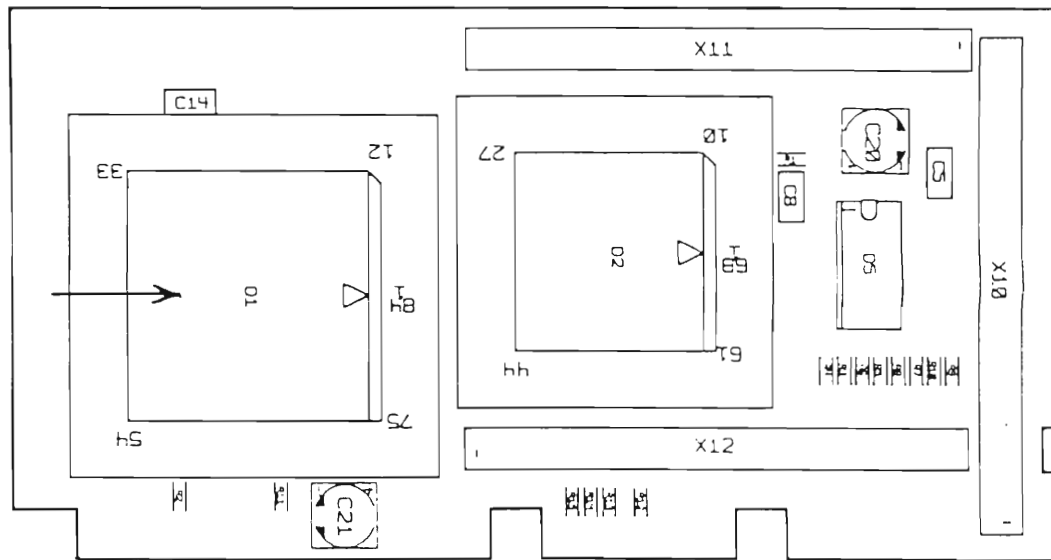
03 00		01.98	NG	ICMK	Tag	Name	Benennung	
				Bearb.	22.01.98	NG	Einbauanleitung Installation Instruction	
				Gepr.				
				Norm				
				 ROHDE & SCHWARZ			Zeichn.-Nr.	Blatt-Nr.
				zu Gerät CMD-B84			1099.5841.00 D	2 / 5
Änd. Zust.	Änderungs-Mitteilung	Tag	Name	reg. i. V.		1099.5806	erste. Z.	1099.5829.00




Darstellung Motherboard Seite A
view on side A of motherboard



Darstellung AMPS Routing Board Seite B
view of side B of AMPS routing board

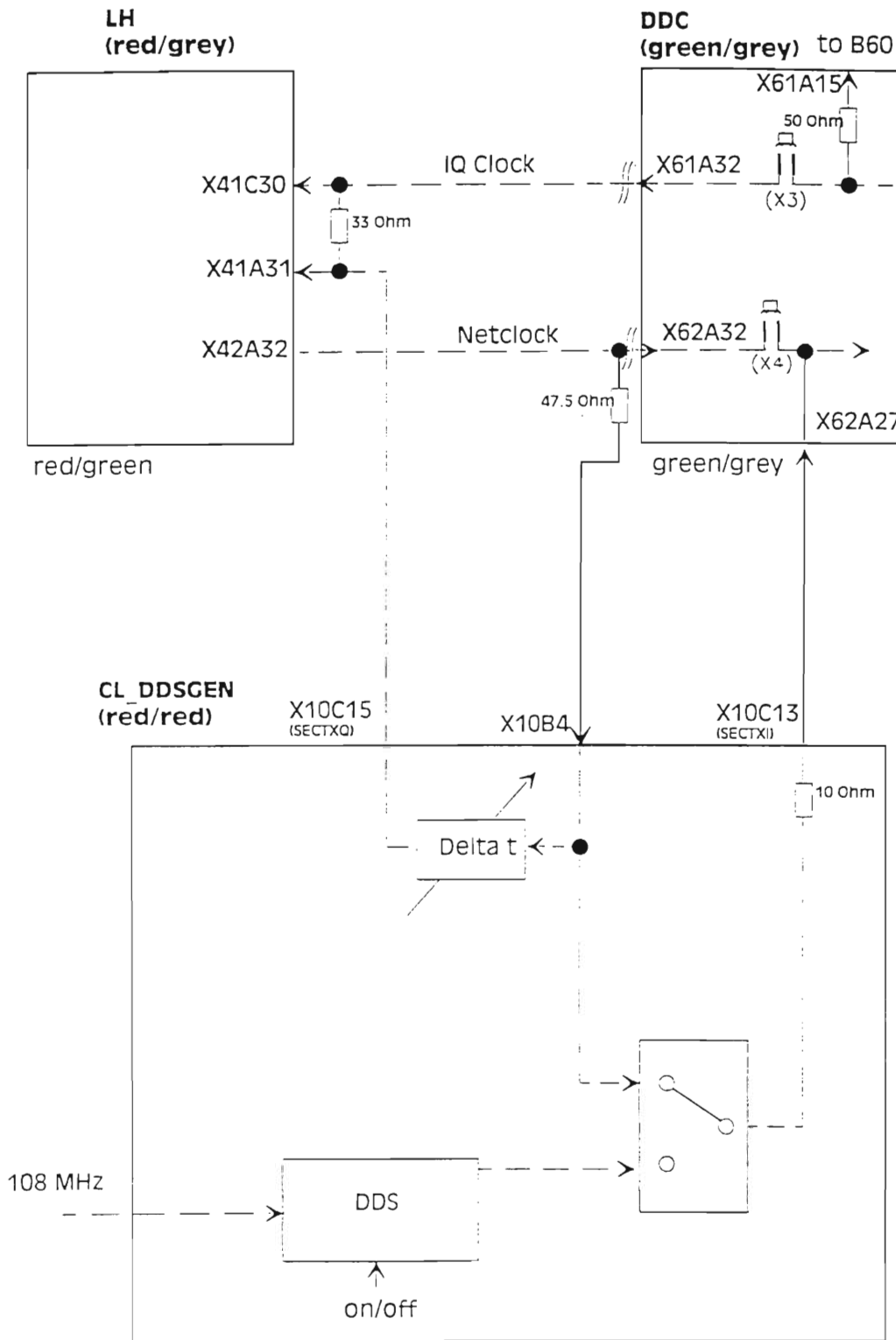


03 00		01 98	NG	ICMK	Tag	Name	Benennung Einbauanleitung Installation Instruction		
				Bearb.	22.01.98	NG			
				Gepr.					
				Norm					
				 ROHDE & SCHWARZ			Zeichn.-Nr.	Blatt-Nr. 3 / 5	
And. Zust.	Änderungs-Mitteilung	Tag	Name				1099.5841.00 D		
				zu Gerät	CMD-B84	reg. i. V.	1099.580h	erste Z.	1099.5829.00

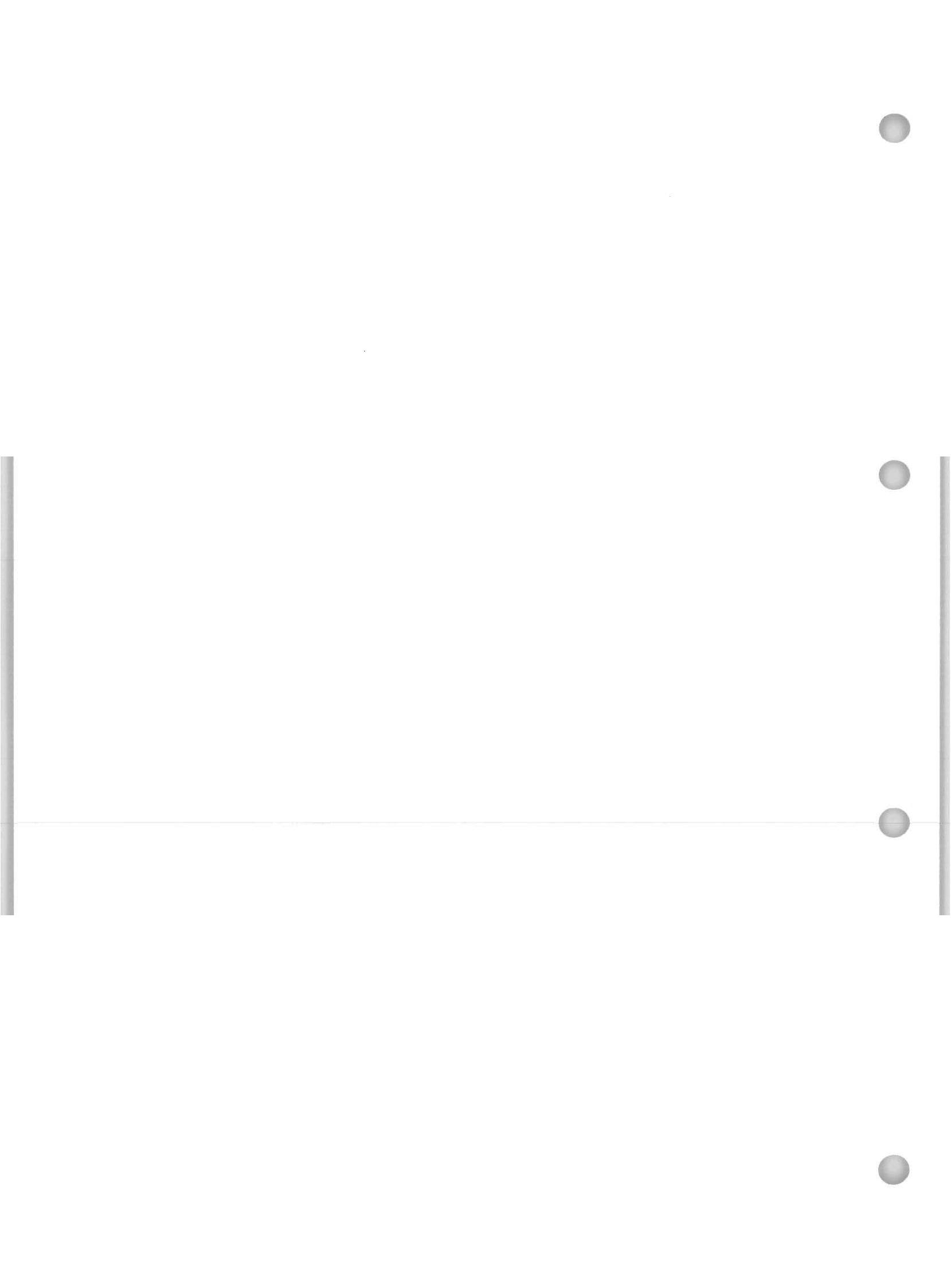




Installation Diagram of CMD-B84 (v2.0)



03 00		01.98	NG	ICMK	Tag	Name	Benennung
				Bearb.	22.01.98	NG	<h2 style="margin: 0;">Einbauanleitung</h2> <h3 style="margin: 0;">Installation Instruction</h3>
				Gepr.			
				Norm			
							Zeichn.-Nr.
				ROHDE & SCHWARZ			1099.5841.00 D
Änd. Zust.	Änderungs-Mitteilung	Tag	Name	zu Gerät CMD-B84			erste. Z. 1099.5829.00
				reg. i. V.	1099.5806		Blatt-Nr. 5 / 5






ROHDE & SCHWARZ

Schalteillisten
numerisch geordnet
Part lists
in numerical order
Listes des pièces détachées
par numéros de référence



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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in	
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC_MODEL					
C1	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*		
C2	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*		
C3	CC 33NF+-10% 25V HDK 0603 ERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT		
C4	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*		
C5	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C6	CC 68 PF+-5%500V NPO1206 CERAMIC CHIP CAPACITOR	0007.8736.00	VITRAMON	VJ1206 A680J XET		
C7	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C8	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*		
C9	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102		
C10	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
..12	C13	CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4609.00	MURATA	GRM39COG***F50PT	
C14	CC 68PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.9746.00	MURATA	GRM39COG***F50PT		
C15	CC 68OPF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7375.00	PHILIPS_CO	2222 863 18681		
C16	CC 47OPF+-5%500V NPO 1206 CERAMIC CHIP CAPACITOR	0007.8788.00	VITRAMON	VJ1206 A471J XET		
C17	CC 18OPF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	1097.6305.00	VITRAMON	VJ0603A***FXAT		
C18	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C19	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649		
C20	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
..37	C38	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	
C42	CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4767.00	MURATA	GRM39X7R***K5C50OPT*		
C43	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
C44	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*		
C45	CC 33OPF+-5%500V NPO 1206 CERAMIC CHIP CAPACITOR	0007.8771.00	PHILIPS_CO	2222 971 115 43		
C46	CC 33OPF+-5%500V NPO 1206 CERAMIC CHIP CAPACITOR	0007.8771.00	PHILIPS_CO	2222 971 115 43		
C47	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50PT		
C48	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C50OPT*		
C49	CC 33NF+-10% 25V HDK 0603 ERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT		
C50	CC 39PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.9730.00	AVX	0603 5A***FAT00J		
C51	CC 15OPF+-5%500V NPO1206 CERAMIC CHIP CAPACITOR	0007.8759.00	VITRAMON	VJ1206 A151J XET		
C52	CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4609.00	MURATA	GRM39COG***F50PT		
C69	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
C77	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
C81	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
..87	C88	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C89	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649		
C90	CE 1UF +-10% 25V E1A352B TANTALUM SMD-CAPACITOR	CE 0007.7217.00	KEMET	T 491 B105 K025 AS		

1CMK	510 3PU-D	Alt	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
	05	16.02.98	EE CL_DDSGEN	1097.3870.01 SA	1+	

095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C91	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C95	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C98	CE 47UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7300.00	KEMET	T491 D 476 K 010 AS	
C100	CC 4,7PFO, 1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4538.00	MURATA	GRM39COG***B50PT	
C101	CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4767.00	MURATA	GRM39X7R***K5C500PT*	
C102	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C103	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C105	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C106	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C107	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C108	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
..112	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
..115	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C116	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C117	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C118	CC 330PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8873.00	PHILIPS_CO	2238 863 18331	
C119	CE 1UF +-10% 10V 1206 TANTALUM-SMD-CAPACITOR	CE 0007.7252.00	KEMET	T491 A 105 K 010 AS	
C120	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C121	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C122	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C127	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C128	CE 47UF+-20%16V RUND SMD SMD-ELECTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C130	CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITOR	CE 0007.7281.00	KEMET	T491 C 106 K 010 AS	
C135	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
C136	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	1097.6292.00	PHILIPS_CO	2238 786 16649	
D1	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D2	BL AD7008 DDS MODULATOR IC MODULATOR	1078.3410.00	ANALOG_DEV	AD7008JP50	
D3	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D4	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
..6	BJ ULN2003L 7XINVERT OC INVERTER/DRIVER	0373.0455.00	SGS-THOMSO	ULN2003D	
D8	BL 74ACTO0SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTO0M	
D9	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D10	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D11	BL 74ACTO0SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTO0M	
D12	BL 74ACTO0SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACTO0M	
D13	BL 74ACT14SC 6XINV.SCHM IC HEX SCHMITTTRIGGER	BL 1036.9479.00	HARRIS	CD74ACT14M	
D15	BL 74AC169SC 4B BIN CNT IC 4BIT BIN U/D COUNTER	BL 0009.5686.00	NSC	(74)AC169(SC)	

1CMK	510 3PU-D	Ai	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr Page
		05	16.02.98	EE CL_DDSGEN	1097.3870.01 SA	2+

095.0026-0693

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D16	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	0008.6143.00	THESYS	TH3032.1C	
D17	BL 74ACT109SC 2XJK-FLIPFL IC J-K P-EDGE TRIG FLIPFL	1097.6605.00	NSC	(74)ACT109(SC)	
D19	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D20	BL PC74HCT374T 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	BL 0007.6662.00	PHILIPS_SE	(PC)74HCT374D(T)	
D21	BC X24C16S14 2KX8 EEPROM SERIAL EEPROM	1028.8190.00	XICOR	X24C16S(14)	
D22	BL UPB585G 2.5G 4:1 PRESC IC PRESCALER 2.5GHZ	1002.5029.00	NEC	(UPB)585(G)-(E1/E2)	
D23	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D24	BL 74ACT257SC 4X 2INP MUX IC QUAD 2INP MULIPLEXER	BL 1051.4174.00	NSC	74ACT257SC	
H5	AF LSS269B0 SUPERROT LED LED	0009.8356.00	SIEMENS	LS S269-B0	
H6	AF LSS269B0 SUPERROT LED LED	0009.8356.00	SIEMENS	LS S269-B0	
L1	LD 33UH 10% 0,10A 1210 SMD-INDUCTOR	LD 0009.3583.00	SIEMENS	B82422-A1333-J(K)100	
L2	LD 2,7UH 10% 0,24A 1210 SMD-INDUCTOR	1097.6592.00	SIEMENS	B82422-A1272-J(K)100	
L3	LD 2,7UH 10% 0,24A 1210 SMD-INDUCTOR	1097.6592.00	SIEMENS	B82422-A1272-J(K)100	
L4	LD 680NH 10% 0,14A 1210 CHIP COIL	LD 0690.9195.00	SIEMENS	B82422-A3681-J(K)100	
L5	LD 560NH 10% 0,15A 1210 CHOKE	4032.4388.00	SIEMENS	B82422-A3561-J(K)100	
L7	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L9	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L13	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L14	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L16	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L24	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L29	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L30	LD 82 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-F82NK	
L31	LD 1MH 10% 5MA 1210 SMD-INDUCTOR	0520.7757.00	TDK	ACL 3225S-102K-T	
L32	LD 1MH 10% 5MA 1210 SMD-INDUCTOR	0520.7757.00	TDK	ACL 3225S-102K-T	
L33	LD 1,2UH 10% 0,37A 1210 SMD-INDUCTOR	1097.6311.00	SIEMENS	B82422-A1122-J(K)100	
L34	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L35	LD 142NH SMD-ABGL.Q5,1H5 SMD-VHF-COIL	0008.9559.00	COMPONEX	E 558 CN-10 0025	
L36	LD 10NH 10% 0,75A 1210 CHOKE	1065.8831.00	SIEMENS	B82422-A3100-J(K)100	
L37	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L38	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L43	LD 47NH 10%OR08 1,3A OFF. CHIP-COIL	0920.0033.00	STETTNER	5501 00033	
L44	LD SP-DROSSEL 47UH 1,5A CHOKE	1081.0331.00	SUMIDA	CDR125-470	
N1	BO M78L05ACM+5V5%0A1 VREG VOLTAGE REGULATOR	0351.3451.00	NSC	LM78L05ACM	
N2	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N5	BM SNA286 DC-6,5G MMIC MIKROWAVE MONOLITIC AMPL	1097.6286.00	STANFORD	SNA-286	
N6	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N8	BO M78L05ACM+5V5%0A1 VREG VOLTAGE REGULATOR	0351.3451.00	NSC	LM78L05ACM	

1CMK

510 3PU-D

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Datum Date

Schalttailliste für Parts list for

Sachnummer Stock No.

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 **ROHDE & SCHWARZ**

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EE CL_DDSGEN

1097.3870.01 SA

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
N10	BO M78L05ACM+5V5%0A1 VREG VOLTAGE REGULATOR	0351.3451.00	NSC	LM78L05ACM	
P1	VL EINPRESSSTIFT L=6,8 PIN NICHT BESTUECKT NOT FITTED	VL 0010.7250.00	AMP	1-928776-5	
P2	VL EINPRESSSTIFT L=6,8 PIN NICHT BESTUECKT NOT FITTED	VL 0010.7250.00	AMP	1-928776-5	
P3 ..19	VL EINPRESSSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1 ..4	RG 20K +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9100.00	ROEDERSTEI	D11 0603	
R5	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R6	RG 3K92 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8427.00	ROEDERSTEI	D11 0603	
R7	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R8	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R9	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.6999.00	DRALORIC	CR 0603	
R10	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R11	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R12	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R13	RG 56R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	DRALORIC	CR 0603	
R14	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R15	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R16	RG 2K43 +-1% TK200 0603 SMD-RESISTOR EIA0603	1081.1780.00	ROEDERSTEI	D11 0603	
R17	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R18	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R19	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R20	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R21	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R22	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R23	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R24	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R25	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R26 ..29	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R30	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R31	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R32	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R33	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R34	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R35	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R36	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R37	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R38	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R39	RG 1K21 +-1% TK200 0603 SMD-REGISTER	0010.9817.00	ROEDERSTEI	D11 0603	
R40	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R41	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R42	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R43	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R44	RG 12K1 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8462.00	DRALORIC	CR 0603	
R45	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R46	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R47	RG 12K1 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8462.00	DRALORIC	CR 0603	
R48	RG 3K01+-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9298.00	DRALORIC	CR 0603	
R49	RS 0,3W10KOHM+-10% CERMET CERMET POTENTIOMETER	RS 0086.7773.00	BECKMAN	66P 0. 67P	
R50	RG 3K3 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7014.00	DRALORIC	CR 0603	
R51	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R52	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R53	RL 0,40W 1,0KOHM2% UNGEW. RESISTOR	RL 0092.6075.00	DRALORIC	SMA 0204	
R54	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R55	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R56	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R57	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	D25	
R69	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R70	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R78	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R82	RG 392R+-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9300.00	ROEDERSTEI	D11 0603	
R84	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R86	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R87	RG 22R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6901.00	DRALORIC	CR 0603	
R88	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R89	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R90	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R94	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R95	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R96	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R97	RG 1M0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5370.00	DRALORIC	CR 0603	
R98	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R99	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R100	RG 2K43 +-1% TK200 0603 SMD-RESISTOR EIA0603	1081.1780.00	ROEDERSTEI	D11 0603	
R102	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R106	RG 100K +-1% TK200 0603 SMD RESISTOR	RG 0009.5363.00	DRALORIC	CR 0603	
R107	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7020.00	DRALORIC	CR 0603	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R108	RG 220K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7108.00	DRALORIC	CR 0603	
R109	RG 33K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7066.00	DRALORIC	CR 0603	
R110	RG 27,4 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9046.00	DRALORIC	CR 0603	
R113	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R114	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R115	RG 1M0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5370.00	DRALORIC	CR 0603	
R116	RG 301 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9123.00	DRALORIC	CR 0603	
R117	RG 301 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9123.00	DRALORIC	CR 0603	
R119	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R120	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	RG 0009.5340.00	DRALORIC	CR 0603	
R128	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.9030.00	DRALORIC	CR 0603	
R129	RG 3K92 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8427.00	ROEDERSTEI	D11 0603	
R130	RG 16,2OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.8933.00	DRALORIC	CR 0603	
R131	RG 4K7 +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.7020.00	DRALORIC	CR 0603	
R132	RG 56R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	DRALORIC	CR 0603	
R133	RG 56R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	DRALORIC	CR 0603	
R136	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R137	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R138	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R139	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R140	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT NOT FITTED	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R141	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R142	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R143	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R164	RG 200R +-1% TK200 0603 SMD RESISTOR	1097.6386.00	DRALORIC	CR 0603	
R165	RG 200R +-1% TK200 0603 SMD RESISTOR	1097.6386.00	DRALORIC	CR 0603	
R167	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R168	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	DRALORIC	CR 0603	
R169	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R170	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R172	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT	0009.9369.00	PHILIPS_CO	RC21 0 OHM	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NOT FITTED				
T1	LU HF-UEBERTR.200MHZ SMD RF-TRANSFORMER	1051.5187.00	MINI-CIRCU	T1-1T-KK81	
U1	BJ LM45C TEMP.SENSOR PRECION TEMP.SENSOR	1081.1796.00	NSC	LM45CIM3	
V1	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V2	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V5	AE BZX284-B5V6 0,4W ZDI ZENER DIODE	0048.4129.00	PHILIPS_SE	BZX284-B5V6	
V6	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V8	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V9	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V10	AE HSMS2800 SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V11	AK BFR93A N 12V 35MA TRANSISTOR	AK 0007.7030.00	VALVO	BFR93A	
V12	AK BFT92 P 15V 25MA TRANSISTOR	1075.4068.00	SIEMENS	Q62702-F1062 (BFT92)	
V15	AE BZX284-B5V1 0,4W ZDI ZENER DIODE	0048.3516.00	PHILIPS_SE	BZX284-B5V1	
V16	AK BC860B P 45V 200MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V17	AK BFR93A N 12V 35MA TRANSISTOR	AK 0007.7030.00	VALVO	BFR93A	
V20	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V21	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V22	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V23	AE BB639 2.9/36.OP CDI TUNING DIODE	4032.4265.00	SIEMENS	BB639(Q62702B586)	
V25	AM BF998 N-D DG MOSF TRANSISTOR	1051.4522.00	SIEMENS	BF998(Q62702F1129)	
V28	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V34	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
X1	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	90MMCX-S50-0-51/1190	
X3	FP STECKERLEISTE 48P.KURZ CONNECTOR 48P.	FP 0008.5882.00	SIEMENS	V42254-B1200-C410	
X10	FP STECKERLEISTE 48P.KURZ CONNECTOR 48P.	FP 0008.5882.00	SIEMENS	V42254-B1200-C410	
Z1	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z4	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z5	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z7	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z12	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	

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XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

- Part:** Bauelement-Kennzeichen.
- Side:** Leiterplatten-Seite, auf der sich das Bauelement befindet.
- XY:** Koordinaten (Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt.
- SQR, PG:** Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement.

Explanation of column designations:

- Part:** Identification of instrument part.
- Side:** Side of the PC board on which instrument part is positioned.
- XY:** Coordinates (millimeter) of the component on the PC board in reference to zero point.
- SQR, PG:** Square and page of the diagram for the respective instrument part.



Service-Relevante Bauteile / Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
L35	B	60	112	2A	3	P11	B	60	22	2A	4	P19	B	112	29	5D	4
P1	B	108	67	3B	2	P12	B	70	38	8B	4	R49	B	117	123	6B	2
P2	B	108	70	3B	2	P13	B	72	38	8B	4	X1	B	33	120	7A	3
P6	B	95	86	2A	2	P14	B	70	40	8B	4	X2	B	77	42	8A	4
P7	B	97	86	2A	2	P15	B	72	40	8B	4	X3	B	50	67	6E	3
P8	B	100	86	2A	2	P16	B	62	22	2B	4	X10	B	133	11	1E	2
P9	B	102	86	3A	2	P17	B	107	29	5D	4						
P10	B	38	22	6C	4	P18	B	110	29	5D	4						

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components																	
Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	B	65	82	7E	3	C43	B	32	104	5A	3	C115	B	47	82	3E	3
C2	B	65	76	7D	3	C44	B	73	65	3E	3	C116	B	76	59	3E	3
C3	B	70	90	8C	3	C45	B	58	66	4E	3	C117	B	33	77	3E	3
C4	B	117	36	4D	4	C46	B	52	69	4E	3	C118	B	62	43	6A	4
C5	B	68	86	8D	3	C47	B	68	114	2A	3	C119	B	25	61	2F	3
C6	B	74	83	7D	3	C48	B	62	118	3A	3	C120	B	31	58	4E	3
C7	B	71	72	8D	3	C49	B	46	68	6E	3	C121	B	33	87	4E	3
C8	B	131	39	3D	4	C50	B	56	120	3B	3	C122	B	76	64	3E	3
C9	B	61	68	4E	3	C51	B	53	119	3B	3	C127	B	61	17	4B	4
C10	B	62	121	3B	3	C52	B	75	100	1B	3	C128	B	157	24	1B	2
C11	B	52	40	7B	4	C69	B	97	54	4F	2	C130	B	52	102	5C	3
C12	B	52	38	7B	4	C77	B	107	73	4F	2	C135	B	53	97	4B	3
C13	B	68	45	7A	4	C81	B	133	112	3F	2	C136	B	57	104	5B	3
C14	B	73	51	7A	4	C82	B	30	27	8D	4	D1	B	101	57	3A	2
C15	B	69	49	7A	4	C83	B	38	44	7D	4	D1	B	101	57	4B	2
C16	B	78	51	7A	4	C84	B	134	103	3F	2	D1	B	101	57	4F	2
C17	B	62	46	7A	4	C85	B	121	67	2F	2	D1	B	101	57	6D	2
C18	B	97	121	7D	2	C86	B	108	81	2F	2	D1	B	101	57	6E	2
C19	B	62	9	2B	4	C87	B	17	46	2A	4	D2	B	50	33	7B	4
C20	B	106	127	5B	2	C88	B	27	47	2A	4	D2	B	50	33	7E	4
C21	B	102	127	7E	2	C89	B	26	43	6E	4	D3	B	35	83	3C	3
C22	B	89	105	8D	2	C90	B	68	89	8C	3	D3	B	35	83	4F	3
C23	B	110	53	5E	2	C91	B	23	103	7B	3	D3	B	35	83	5E	3
C24	B	42	126	4C	3	C95	B	22	18	6E	4	D4	B	27	20	5C	4
C25	B	48	23	8E	4	C98	B	46	126	2C	3	D4	B	27	20	6E	4
C26	B	53	36	7E	4	C100	B	65	18	4B	4	D5	B	22	41	5A	4
C27	B	54	59	3D	3	C101	B	54	112	4B	3	D5	B	22	41	6E	4
C28	B	48	60	2D	3	C102	B	50	106	4A	3	D6	B	132	106	3B	2
C29	B	77	79	4E	3	C103	B	50	110	4A	3	D6	B	132	106	3F	2
C30	B	95	30	7C	3	C105	B	88	19	2C	4	D7	B	105	105	7B	2
C31	B	100	89	6E	2	C106	B	73	21	3C	4	D8	B	27	105	5A	3
C32	B	114	102	4F	2	C107	B	88	14	1C	4	D8	B	27	105	6A	3
C33	B	66	21	3B	4	C108	B	132	65	2A	2	D8	B	27	105	6B	3
C34	B	82	15	2C	4	C109	B	136	74	2B	2	D8	B	27	105	6B	3
C35	B	134	31	3E	4	C110	B	132	52	2B	2	D8	B	27	105	7C	3
C36	B	106	34	3E	4	C111	B	132	57	2B	2	D9	B	49	77	3F	3
C37	B	51	9	2B	4	C112	B	132	61	2B	2	D9	B	49	77	6D	3
C38	B	12	106	6B	3	C113	B	31	14	7E	4	D9	B	49	77	6D	3
C42	B	41	109	4B	3	C114	B	15	61	2F	3	D10	B	131	115	3F	2

ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		01.12.05.97	EE CL_DDSGEN	1097.3870.01 XY	1+





Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
D10	B	131	115	4B	2	L31	B	59	77	6D	3	R35	B	52	85	6D	3
D10	B	131	115	4C	2	L32	B	59	81	6D	3	R36	B	48	73	6C	3
D10	B	131	115	4C	2	L33	B	55	69	4E	3	R37	B	30	116	6B	3
D10	B	131	115	4C	2	L34	B	69	24	3B	4	R38	B	59	120	3A	3
D11	B	97	33	7A	3	L36	B	73	59	3E	3	R39	B	58	122	3B	3
D11	B	97	33	7A	3	L37	B	31	99	1B	3	R40	B	61	121	2B	3
D11	B	97	33	7B	3	L38	B	18	99	1B	3	R41	B	107	96	6D	2
D11	B	97	33	7C	3	L43	B	59	108	2A	3	R42	B	64	127	3C	3
D11	B	97	33	8A	3	L44	B	148	14	1B	2	R43	B	55	127	3C	3
D12	B	131	34	1D	4	N1	B	59	9	2B	4	R44	B	75	86	8E	3
D12	B	131	34	2D	4	N2	B	105	121	5A	2	R45	B	106	42	4F	4
D12	B	131	34	2E	4	N2	B	105	121	6A	2	R46	B	107	27	5D	4
D12	B	131	34	2E	4	N2	B	105	121	7E	2	R47	B	101	118	7A	2
D12	B	131	34	2F	4	N5	B	69	65	3E	3	R48	B	97	124	6A	2
D13	B	114	34	3F	4	N6	B	71	76	4F	3	R50	B	46	61	2D	3
D13	B	114	34	4D	4	N6	B	71	76	7D	3	R51	B	100	39	7A	3
D13	B	114	34	4D	4	N8	B	24	46	2A	4	R52	B	129	27	1E	4
D13	B	114	34	4E	4	N10	B	23	60	2F	3	R53	A	120	127	6B	2
D13	B	114	34	4E	4	P3	B	73	98	2B	3	R54	B	70	88	8C	3
D13	B	114	34	4F	4	P4	B	75	98	2B	3	R55	B	123	27	2E	4
D13	B	114	34	4F	4	P5	B	78	98	2B	3	R56	B	46	73	5D	3
D15	B	35	73	3F	3	R1	B	67	78	7D	3	R57	B	15	109	6B	3
D15	B	35	73	5C	3	R2	B	67	80	7D	3	R69	B	72	42	8A	4
D16	B	130	80	2C	2	R3	B	64	85	7D	3	R70	B	54	114	4A	3
D16	B	130	80	2F	2	R4	B	73	73	7D	3	R78	B	73	17	3C	4
D17	B	33	10	4C	4	R5	B	109	127	5B	2	R82	B	55	38	7C	4
D17	B	33	10	4C	4	R6	B	119	31	4D	4	R84	B	31	118	6A	3
D17	B	33	10	7E	4	R7	B	129	37	2D	4	R85	B	19	20	5B	4
D19	B	117	105	4F	2	R8	B	69	100	1B	3	R86	B	30	42	5A	4
D19	B	117	105	5C	2	R9	B	109	122	6B	2	R87	B	82	18	2C	4
D20	B	105	83	3A	2	R10	B	117	33	4D	4	R88	B	51	106	4A	3
D20	B	105	83	4F	2	R11	B	121	123	6B	2	R89	B	84	14	2C	4
D21	B	114	56	4B	2	R12	B	123	40	3E	4	R90	B	33	17	4B	4
D21	B	114	56	5E	2	R13	B	38	109	5B	3	R94	B	89	19	2C	4
D22	B	48	107	4B	3	R14	B	96	106	7B	2	R95	B	109	104	5C	2
D23	B	104	91	5E	2	R15	B	100	27	8A	3	R96	B	103	67	2C	2
D23	B	104	91	7C	2	R16	B	104	118	7B	2	R97	B	96	95	7D	2
D24	B	35	60	4C	3	R17	B	97	127	6A	2	R98	B	91	65	6E	2
D24	B	35	60	4F	3	R18	B	45	21	6D	4	R99	B	20	105	6A	3
H5	B	68	126	2B	3	R19	B	34	81	3D	3	R100	B	76	88	8E	3
H6	B	51	59	2D	3	R20	B	99	118	7A	2	R102	B	71	16	3C	4
L1	B	61	61	4D	3	R21	B	72	120	2A	3	R106	B	88	16	2C	4
L2	B	133	43	3D	4	R22	B	132	37	2D	4	R107	B	13	96	2B	3
L3	B	121	42	3D	4	R23	B	67	19	3B	4	R108	B	73	88	8C	3
L4	B	65	46	7A	4	R24	B	105	86	3B	2	R109	B	81	17	2C	4
L5	B	72	49	7A	4	R25	B	105	59	4A	2	R110	B	56	58	3D	3
L7	B	68	120	2A	3	R26	B	124	95	2C	2	R113	B	56	112	3A	3
L8	B	66	104	1B	3	R27	B	126	95	2C	2	R114	B	96	101	7D	2
L9	B	50	119	3B	3	R28	B	124	65	2D	2	R115	B	107	92	7D	2
L13	B	139	65	2A	2	R29	B	132	99	3B	2	R116	B	62	41	6A	4
L14	B	139	70	2B	2	R30	B	33	88	4E	3	R117	B	67	42	6A	4
L16	B	139	52	2B	2	R31	B	35	109	5A	3	R119	B	110	101	6D	2
L24	B	139	57	2B	2	R32	B	35	104	5A	3	R120	B	40	63	4C	3
L29	B	139	61	2B	2	R33	B	100	68	3A	2	R128	B	90	14	1C	4
L30	B	63	19	4B	4	R34	B	105	57	4A	2	R129	B	46	70	5E	3

ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		01.12.05.97	EE CL_DDSGEN	1097.3870.01 XY	2+

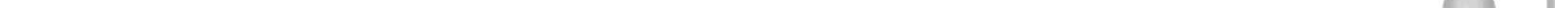




Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R130	B	66	41	6A	4	R172	B	33	101	1B	3	V21	B	65	108	1A	3
R131	B	29	106	5B	3	T1	B	56	29	8B	4	V22	B	65	110	2A	3
R132	B	51	115	4A	3	U1	B	93	105	8D	2	V23	B	67	108	1B	3
R133	B	48	69	6E	3	V1	B	62	126	2B	3	V24	B	65	106	1A	3
R136	B	97	113	7C	2	V2	B	134	39	3D	4	V25	B	67	106	1B	3
R137	B	45	13	5C	4	V3	B	127	41	3D	4	V28	B	86	19	2C	4
R138	B	45	11	5C	4	V4	B	125	41	3D	4	V34	B	56	101	5B	3
R139	B	35	118	5A	3	V5	B	117	38	4D	4	Z1	B	62	58	1A	4
R140	B	42	81	6D	3	V6	B	50	98	4C	3	Z2	B	88	88	1E	3
R141	B	42	80	6D	3	V8	B	58	61	3D	3	Z3	B	88	32	8C	3
R142	B	40	67	4C	3	V9	B	57	74	6C	3	Z4	B	113	50	1F	4
R143	B	50	70	6E	3	V10	B	57	87	6D	3	Z5	B	123	50	7A	2
R164	B	53	98	4B	3	V11	B	31	109	5B	3	Z7	B	88	67	1F	3
R165	B	52	100	4C	3	V12	B	56	118	3A	3	Z8	B	88	77	1E	3
R167	B	67	76	7D	3	V15	B	108	98	6E	2	Z9	B	88	83	1D	3
R168	B	67	82	7E	3	V16	B	53	126	3B	3	Z10	B	88	72	1D	3
R169	B	51	110	4A	3	V17	B	69	20	3C	4	Z11	B	27	90	1C	3
R170	B	35	111	5B	3	V20	B	67	110	2B	3	Z12	B	22	90	1C	3



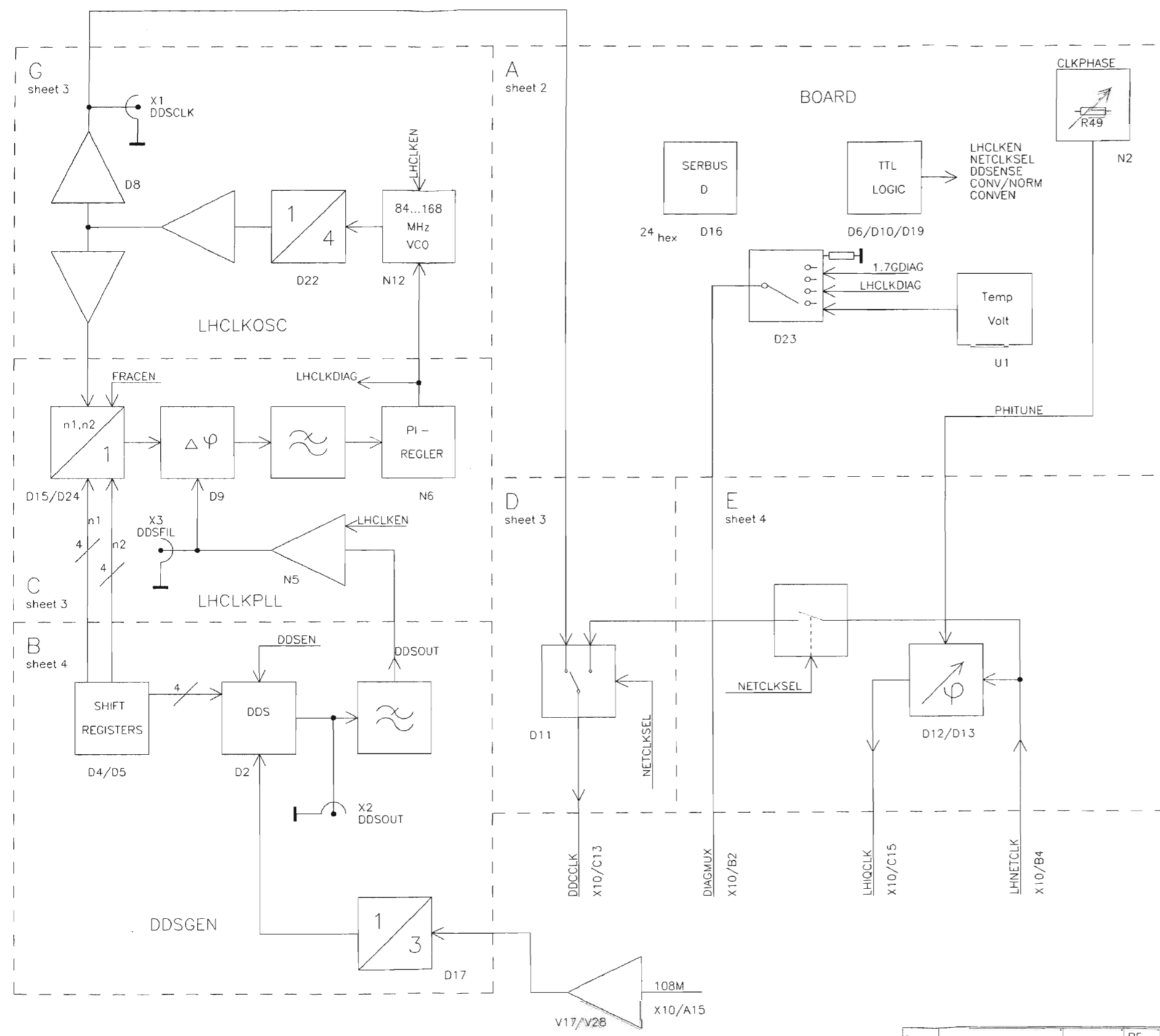
ROHDE & SCHWARZ	ÄI	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
		01 12.05.97	EE CL_DDSGEN	1097.3870.01 XY	3-



Stromläufe
Bestückungspläne
Circuit diagrams
Components plans
Schémas de circuit
Plans des composants



BEHALTEN WIR UNS ALLE RECHTE VOR



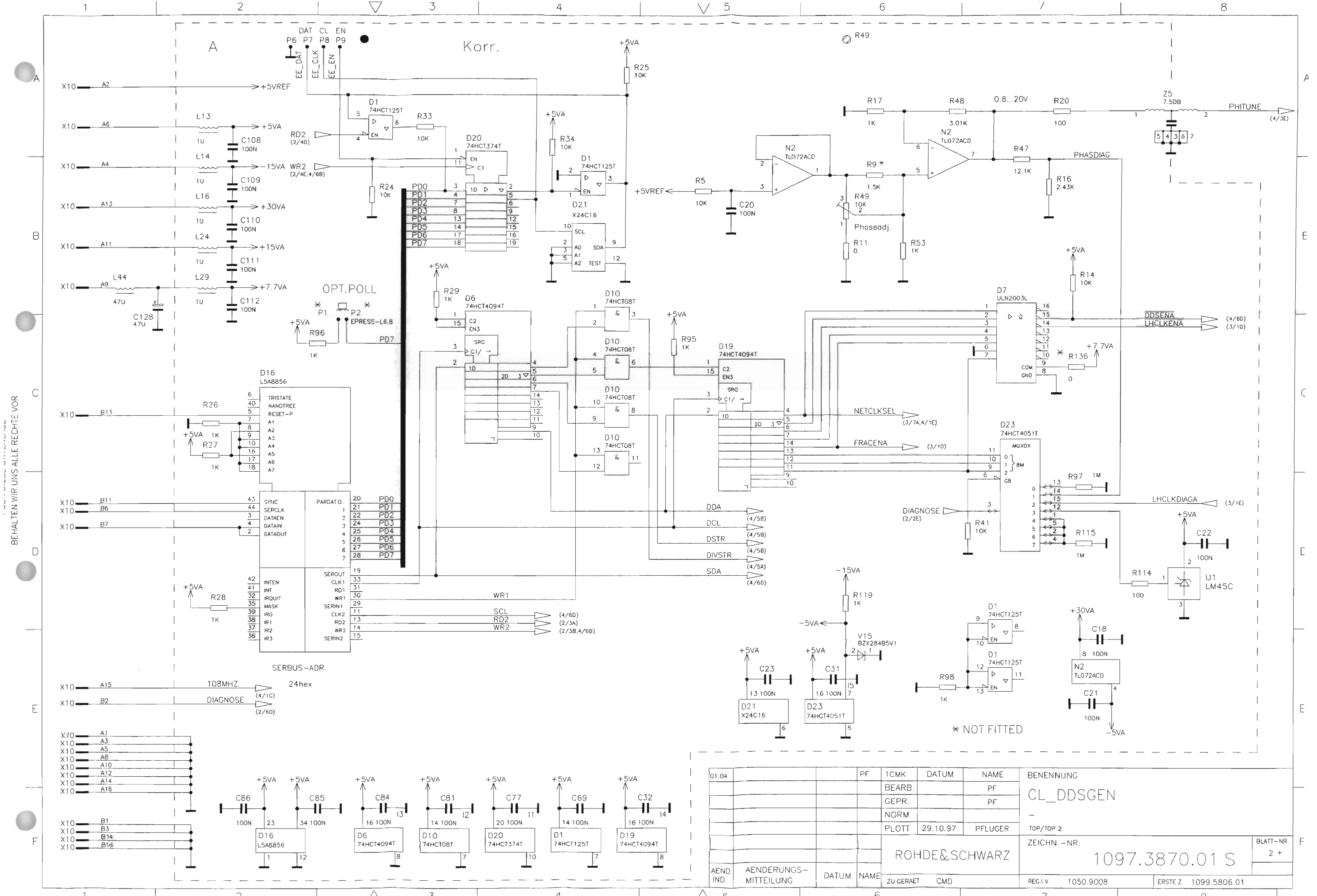
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
 ELEKTROSTATISCH GEFAHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

01.04		PF	1CMK	DATUM	NAME	BENENNUNG
						CL_DDSDGEN
						-
						TOP/TOP.1
						ZEICHN.-NR.
						1097.3870.01 S
						BLATT-NR.
						1 +
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZUGERAEET	CMD	REG.I.V. 1050 9008
						ERSTELT Z. 1099.5806.01

ROHDE&SCHWARZ



BEHALTEN WIR UNS ALLE RECHTE VOR

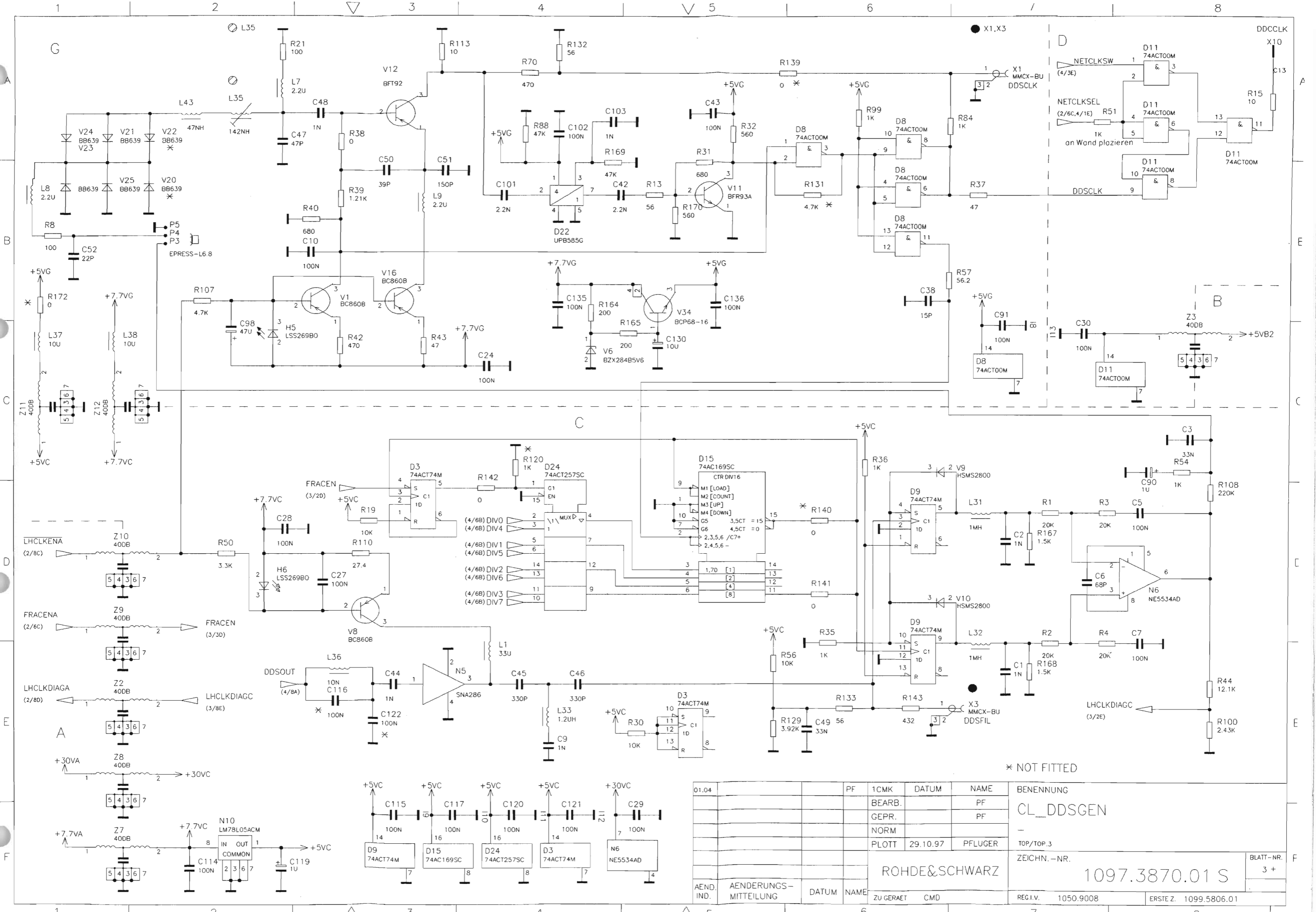
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				BEARB.		PF	CL_DDSGEN
				GEPR.		PF	
				NORM			
				PLOTT	29.10.97	PFLUGER	TOP/TOP 2
							ZEICHN.-NR.
							1097.3870.01 S
							BLATT-NR.
							2 +
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	CMD	REG.I.V.	1050.9008
						ERSTE Z.	1099.5806.01

ROHDE&SCHWARZ

1097.3870.01 S

BLATT-NR. 2 +

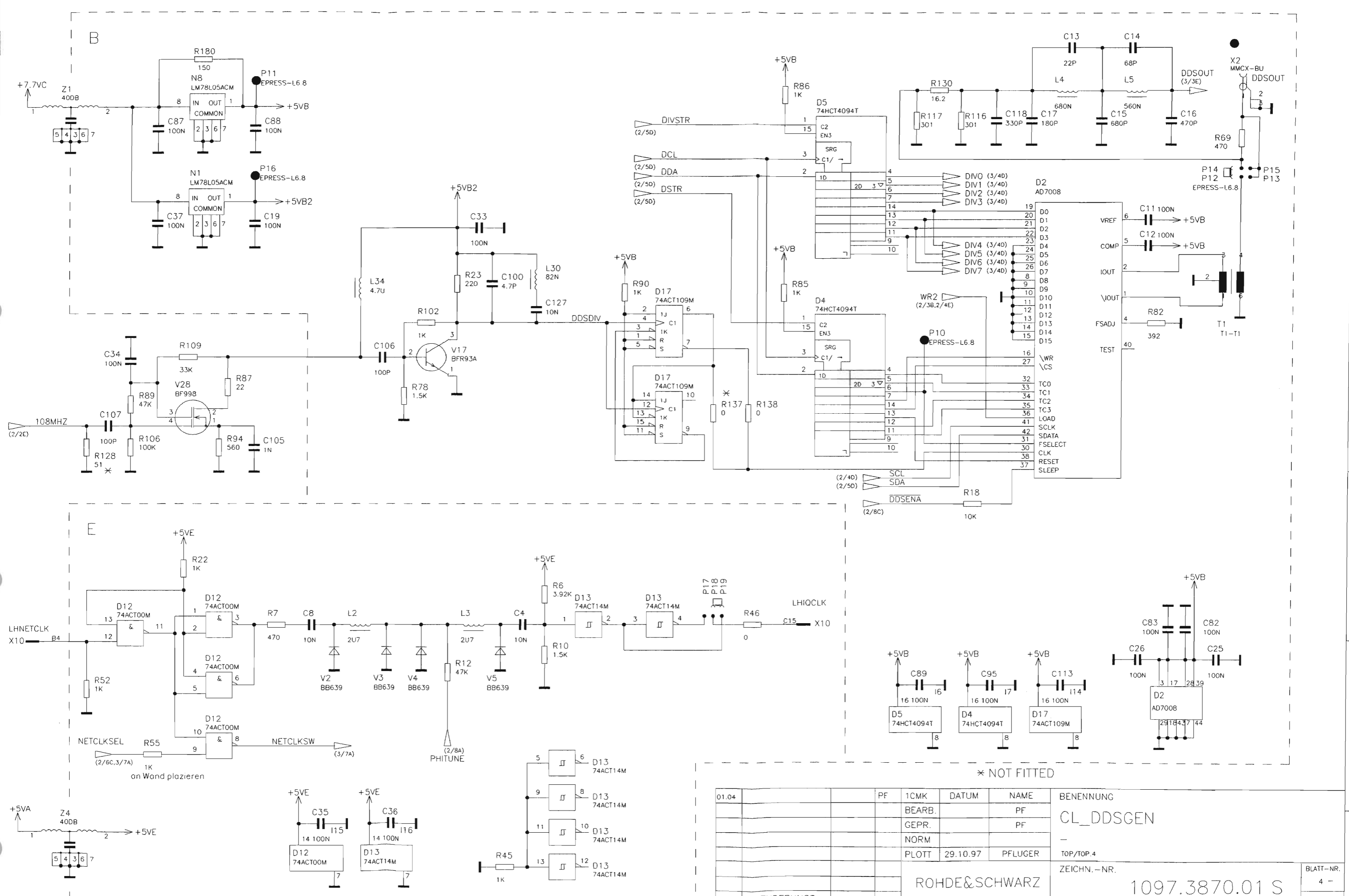
BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

01.04		PF	1CMK	DATUM	NAME	BENENNUNG
			BEARB.		PF	CL_DDSDGEN
			GEPR.		PF	
			NORM			
			PLOTT	29.10.97	PFLUGER	TOP/TOP.3
ROHDE&SCHWARZ						ZEICHN.-NR.
						1097.3870.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	CMD	REG.I.V. 1050.9008
						ERSTE Z. 1099.5806.01
						BLATT-NR. 3 +

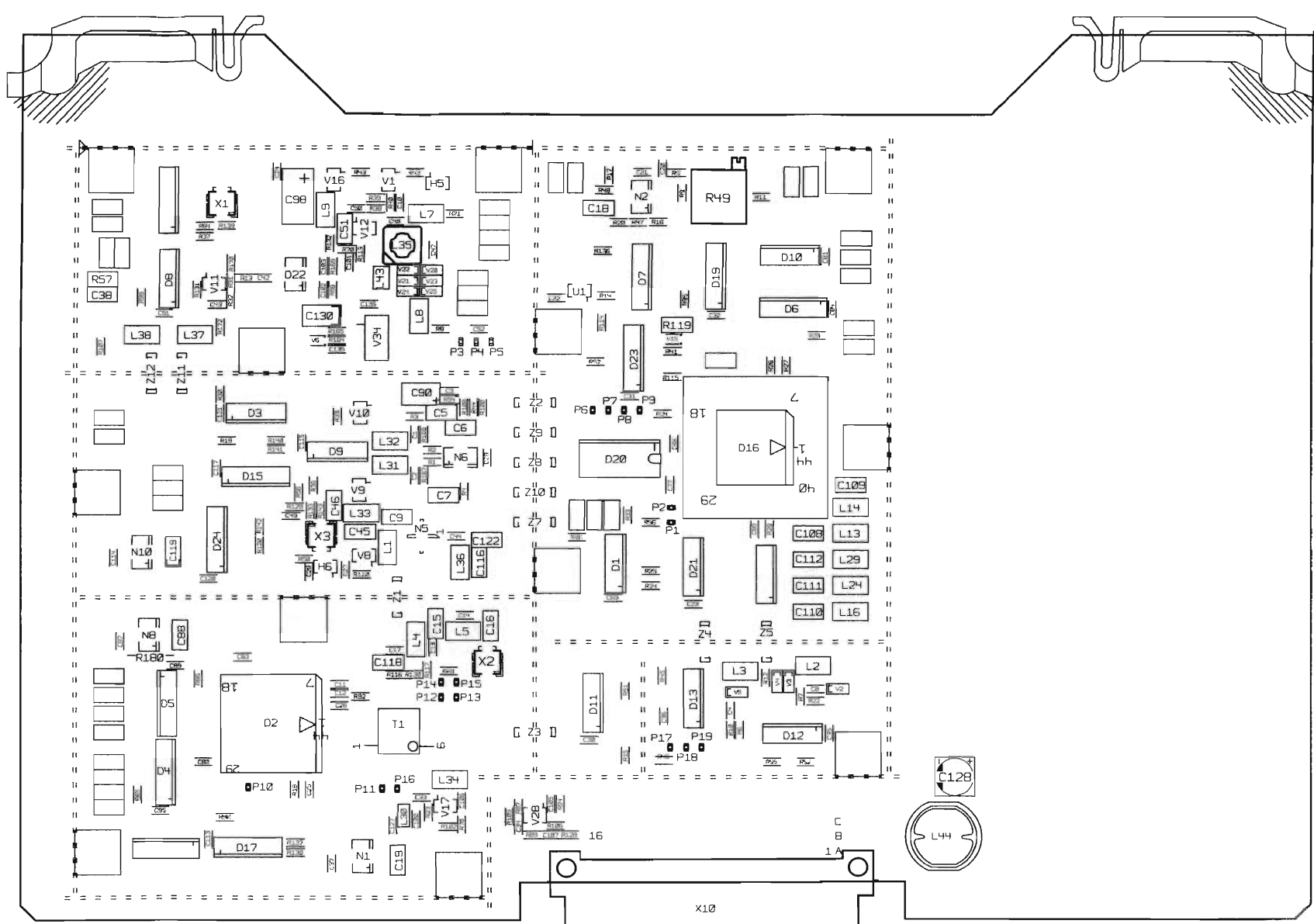
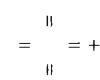
TULN WILDE UNTERLAGEN BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

01.04		PF	1CMK	DATUM	NAME	BENENNUNG
			BEARB.		PF	CL_DDSDGEN
			GEPR.		PF	
			NORM			
			PLOTT	29.10.97	PFLUGER	TOP/TOP.4
ROHDE&SCHWARZ						ZEICHN.-NR.
						1097.3870.01 S
AEND. IND.						REG.I.V.
AENDERUNGS-MITTEILUNG						1050.9008
DATUM						ERSTE.Z.
NAME						1099.5806.01
						BLATT-NR.
						4 -

BEHALTEN WIR UNS ALLE RECHTE VOR



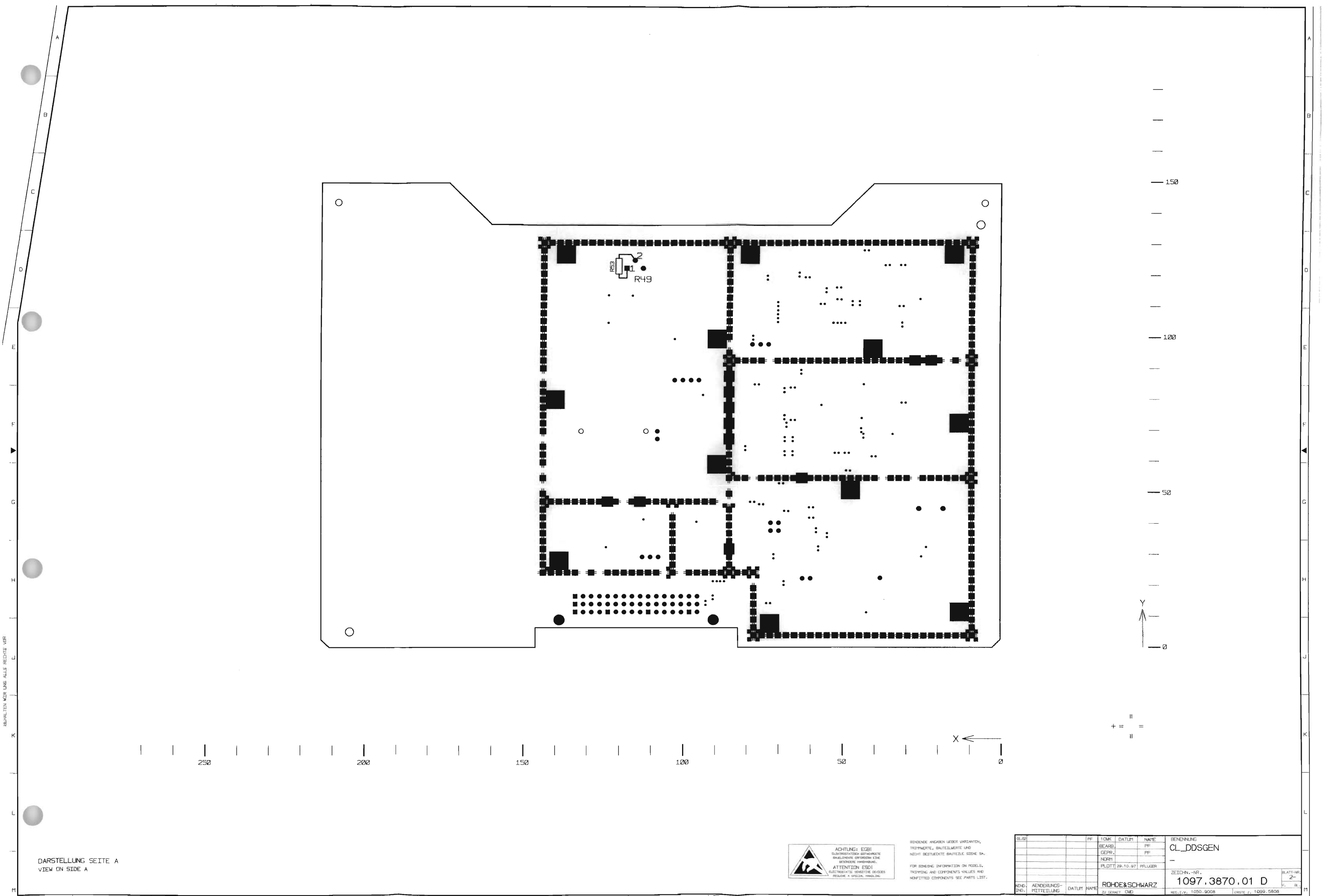
DARSTELLUNG SEITE B
VIEW ON SIDE B



ACHTUNG: ESD!
ELEKTROSTATISCHER ENTGEGEN
WIRKUNGSSCHUTZ
BEWAHRUNG VON KOMPONENTEN
BEWAHRUNG VON KOMPONENTEN
ATTENTION: ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BEWACHEN SIE SICH VOR VERLETZUNGEN.
TRAGEN SIE SCHUTZHAENDLICHEN
UND NICHT-BESTUECKTE HAENDLICHEN SA.
FOR HANDLING INFORMATION ON MODELS,
TRIPPING AND COMPONENTS VALUES AND
NON-FITTED COMPONENTS SEE PARTS LIST.

BL. NR.	BEARB.	DATUM	NAME	BENENNUNG
	PF			CL_DDSDGEN
	GEPR.			
	NORM			
	PLATZ	29.10.07	PFLUGER	
ROHDE & SCHWARZ				ZEICHN.-NR.
ZU GERÄT: 1097.3870.01 D				1097.3870.01 D
REG. NR. 1050.0008				BLATT-NR.
				1+
				V. B.



BEHALTEN NUR UNS ALLE RECHTE VOR

DARSTELLUNG SEITE A
VIEW ON SIDE A



ACHTUNG: ESD!
ELEKTROSTATISCH EMPFINDLICHE
BAUTEILE GEBEN SIE
SPEZIELLE VERFAHREN AN.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING.

SONDRIGE ANGEVEN LEZER VARIANTEN,
TIPSNUMMER, BAUTEILNUMMER UND
NICHT BESTEMMTE BAUTEILE ZIEHE SA.
FOR REMISE INFORMATION ON MODELS,
TRIPPING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

10.02		PF	10MK	DATUM	NAME	BENENNUNG
			BEARB.		PF	CL_DDSDGEN
			GEPR.		PF	
			NEFR1			
			PLOTT	29.10.97	PFLUGER	
						ZEICHN.-NR.
						1097.3870.01 D
						BLATT-NR.
						2
						VER. NR.
REVISIONS- LISTE	DATUM	NAME	ROHDE & SCHWARZ		REG. N. V. 1050.9008	
			ZUGEW. ENTW. CMD		ERSTE Z. 1999.5808	