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6 Service Instructions for the Complete Instrument

6.1 Service Software

The service software consists of three main parts:

- EEProm Access
- Calculation of Error Correction Data
- Performance Tests
- ENHANCED CALIBRATION SW: MODCAL

EEProm Acces provides the tools of Reading the EEProm Data of every board. This tool is needed when modification of the EEProm Data is required, for example to after hardware modification of repair has been performed.

Calculation of Error Correction Data has to be performed after board replacement.

Performance Tests will search to check whether the instrument still meets its specifications.
Modcal is used to perform TX-Level Adjustment with High Accuracy.

6.1.1 Booting for DOS

All service programs of the CMD are only accessible under DOS. An external PC-compatible keyboard must be connected to the CMD in order to enter the DOS commands. Upon switching on the CMD, a short signal is audible. Hold down the <Alt> and <Control> keys simultanuously and then press <E>. Start up messages such as "Testing..." are then displayed by the controller.

If switchover fails, switch off the CMD and repeat the procedure.

When the controller startup has been completed, the DOS prompt is displayed.

Note:
Files must not be modified or deleted. This would impair the validity of data and function of the CMD.

6.1.2 Software Update of the Service Software

The software update is accomplished via an external IBM-compatible PC which is connected to the CMD via a RS232 interface. A zero-modem cable is used as connection; a description is enclosed with each software update.

The detailed sequence of the installation is described in the file READ.ME which is also part of the service software.

Installation sequence

- Boot the CMD for DOS (see Section 6.1.1).
- Change directory: cd \cmd\util <ENTER>.
- Call the installation software: install <ENTER>.

The transfer rate of the interface can be adapted to the hardware in the installation program.

- Call the installation software on the first disk or on the hard disk of the external PC, too: install <ENTER>.

Again, the interface parameters can be adapted to the hardware in use.

- When receipt of the interface parameters has been acknowledged on both sides, the software is automatically installed on the CMD. The program prompts the user to insert the next disk, if required.

When the software has been installed and no further actions are required according to the service information, the CMD must be booted again by switching it off and then on again.

Note: *The current version of the service software is stored in the file c:\new_ver.vif if the version is 2.50 or higher.*

6.1.3 Program Package for EEPROM Accesses: "C70_ET"

6.1.3.1 Basic Information

This program, if not used correctly, may easily corrupt the error correction data, stored in the EEProms. It should therefore be used with care and only when instructed by corresponding service informations. Adherence of the CMD to the specifications can only be ensured by correction data which are stored in an EEPROM on each board. **Each replacement of board requires reading off the respective EEPROM and storing the data on the hard disk as well as calculation of the FLASHPROM contents for the error correction hardware (see Section 6.5.2), if required.** This is achieved by means of the program package C70_ET.

This program package allows for modification of the correction data, if this is requested in a service information.

Moreover, the EEPROM allows for determining the state of board, since each repair and modification of the correction data is also stored in the EEPROM.

Note:
Repair or modification of components which may influence the signal accuracy should not be performed in the field. Adherence of the board to the specifications can only be restored after resent by the central service organisation in Munich.

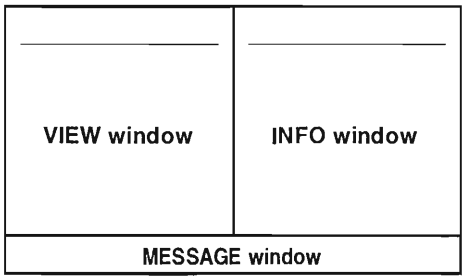
6.1.3.2 Starting the Program

- Boot the CMD for DOS, if required (see Section 6.1.1).
- Change directory: cd \service <ENTER>.
- Call EEPROM service-software: C70_ET <ENTER>.

A detailed description of the program package including background information for troubleshooting can be looked up under \service\c70_et.doc.

6.1.3.3 Display Outputs

The program works with three windows:



The VIEW window displays:

- a menu or
- Data (e.g. service information) or
- the status of an operation (e.g. modification of correction tables).

The first line informs about the contents of the window.

The INFO window shows the management data of a board.

The MESSAGE window is used for entry and display of warnings and error messages.

6.1.3.4 Operating the Program

The program is menu-controlled. A menu item is selected by positioning the cursor next to the menu item using the keys <Cursor up>, <Cursor down>, <Page up> and <Page down> of the external keypad and subsequently pressing the <ENTER> key.

a.) Board replacement and EEProm-data update

- Reading out the EEPROMs
  Select the item **Select new EEPROM** in the main menu.The Selection Menu offers the names of all boards installed for selection of the board to be prepared. Read-out of the EEPROM is thus started; it may last up to one minute.

- Testing the EEPROM contents
  The INFO window shows the management data of the board. The EEPROM-version indicates the state of the correction tables. Changing the format of the tables also changes the version number. The program uses the version number to test and update the correction data.

  Select **Tables / Check**. If the test fails, the data assume a state which cannot be interpreted unambiguously. In this case, modify the data according to the service information, if required. If no information is given, replace the board; the EEPROM must be written again by the manufacturer.

- Performing update of correction data
  If the preceding test reveals that the tables do no longer correspond to the latest state, select the item **Modification / Perform.** The program automatically performs the modifications. Upon termination , enter your name, department, date and the number of the service information.

- Writing to the EEPROM and the file on the hard disk
  Select the item **Select new EEPROM** or **Exit Program.** Again, writing the EEPROM may last up to one minute.

b.) Repair of board

Note:
Do not repair components which might influence the signal level.

- Read out the EEPROMs (see a.)
- Enter modifications
  Select **Change Administration Info / Date (and No.) of Last Repair** and enter your name, department, date and a short description of the repair.
- Write the EEPROM and the file on the hard disk (see a.)).

c.) Handling a service information

- Carry out hardware modifications on the board concerned.
  If correction data have to be modified, only, ignore this instruction.
- Read out the EEPROMs (see a.)
- Test the EEPROM contents (see a.)
- Perform update of correction data (see a.)
- Enter modifications.
  Select **Service information and Modification / Add** and enter your name, department, date and the number of the service information.
- Write the EEPROM and the file on the hard disk (see a.)

6.1.4 Program Package for Calculation of Error Correction Data

6.1.4.1 Basic Information

Adherence of the CMD to the specifications can only be ensured by error correction data data which are stored in an EEPROM on each board. Each replacement of board requires reading off the respective EEPROM and storing the data on the hard disk. This is achieved by means of the program package EEPROM.

In addition, the FLASHPROM contents are to be calculated for the receive or transmit path in the case of board replacement. A detailed list of actions depending on the replaced module is to be found in Section 6.5.2 "Software adjustments".

6.1.4.2 Explanation: Correction of Measuring Paths during Instrument Operation (Error Correction Hardware)

General

Correction mode in the ADC/RF-Synthesizer serves the purpose of compensating for board-specific tolerances and spurious influences in the RX/TX path of the instrument. This includes for example frontend and synthesizer tolerances whose individual deviations from the nominal value are stored in the EEPROM tables of the boards. These EEPROM tables of different boards and the associated correction data (CA.EEP) are used to calculate the contents of the correction lookup tables in the ADC or RF synthesizer in preprocessing mode (see illustration below). The lookup tables are stored in the FLASHPROMs of the two boards.

During instrument operation, data are fetched in table accesses to the FLASHPROM and applied to the hardware control elements, which compensate for inaccuracies and temperature effects of the hardware in order to ensure adherence to the specifications of the instrument with respect to transmit level, modulation, etc.

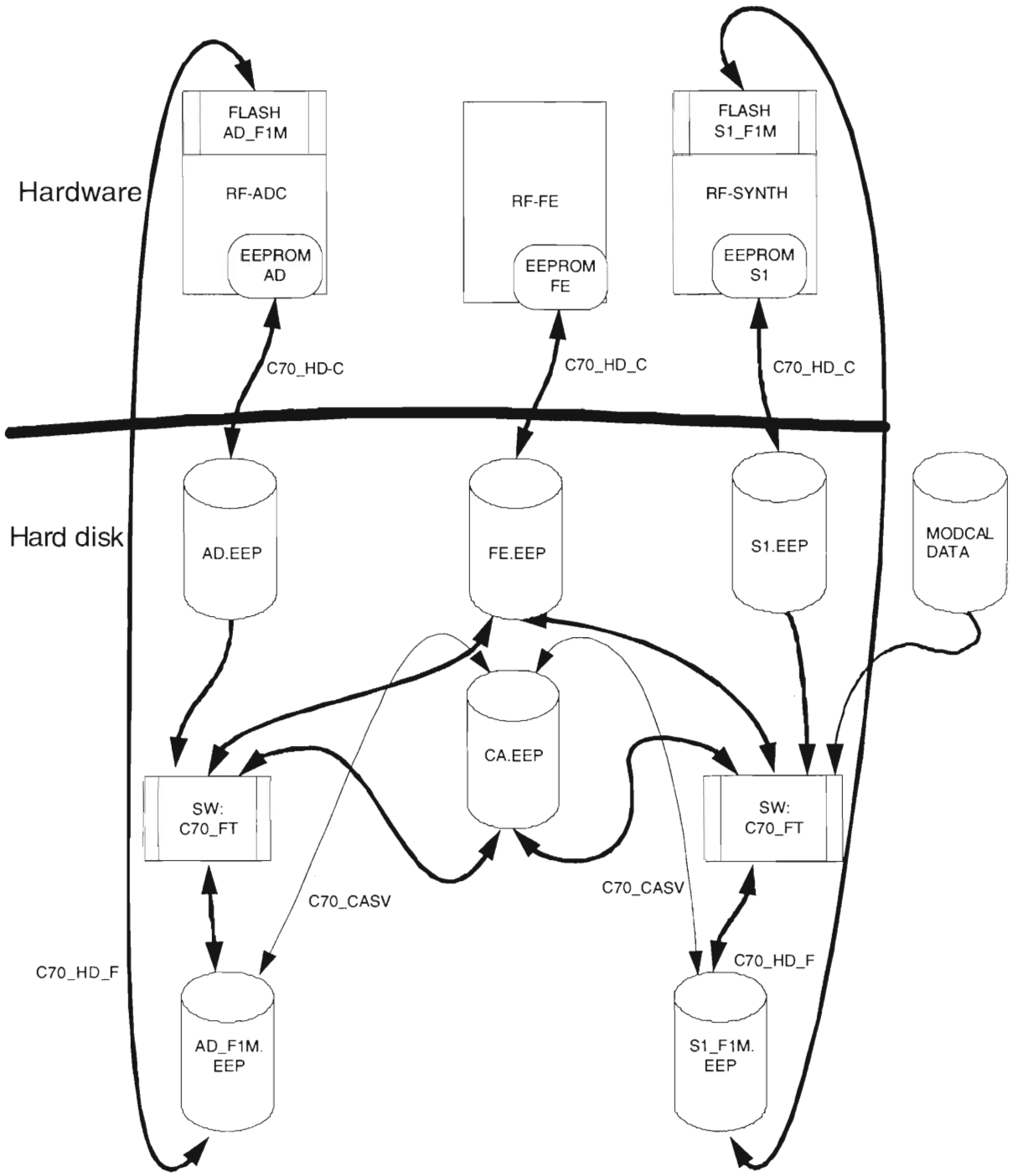
The complete table is divided into subpages, the addressing of which is determined by the current hardware setting and spurious effects such as temperature.

Calculation of the FLASHPROM contents (preprocessing)

The following illustration is to explain the tables.
The EEPROM tables (individual measured values for the associated board) are represented on the hard disk in the files "FE,AD,S1", each with the extension ".EEP". The correction data of the instrument are to be found in the file "CA.EEP". The FLASHPROM contents are represented on the hard disk by the files "AD-F1M.EEP" for the receive path and "S1-F1M.EEP" for the transmit path. In addition, the correction data are saved in the FLASHPROMs of the ADC and RF synthesizer.

Calling the program "correct" with the appropriate parameters for new generation of the correction data and writing the FLASHPROMs must be accomplished after replacement of the modules FE or ADC or RF synth. or the hard disk (see Section 6.5.2).

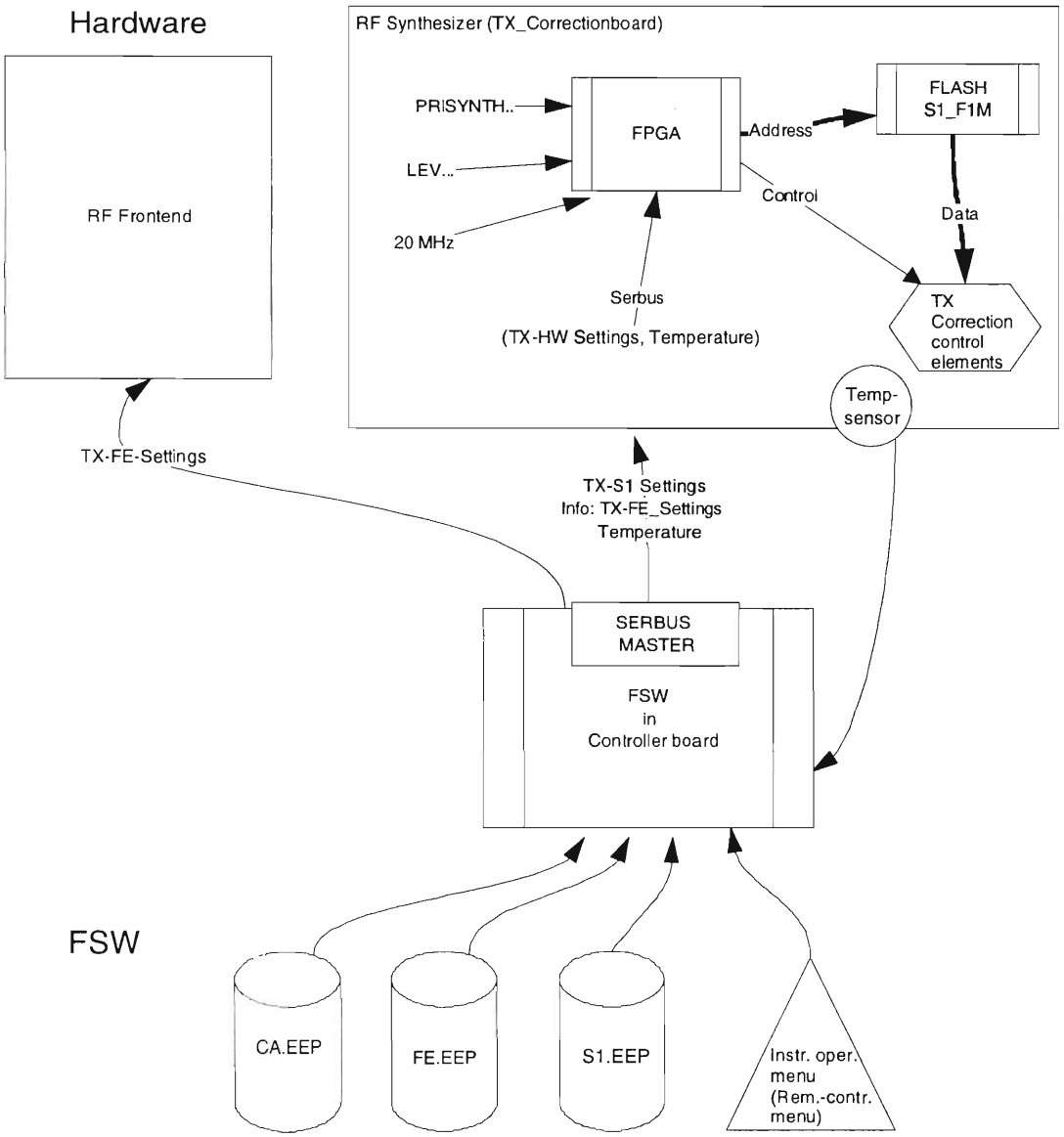
Calculation of the correction data for the flash PROMs (Preprocessing)



Functioning of the error correction hardware during instrument operation (see following illustration)

During instrument operation, the functional software (FSW) adjusts the elements of the hardware boards depending on the respective entries and some EEPROM tables stored on the hard disk. Setting data and the current board temperature for the complete RX (TX) path are processed in an FPGA on the ADC, RF-Synthesizer in order to address the lookup table in the FLASHPROM and apply the associated data to the control elements for correction. To this end, the FPGA operates the control signals for the control elements. Each relevant hardware switchover via the serbus or, optionally, via the link handler interface (PRISYNTH...; LEV...) triggers an update of the control elements. Besides, the control elements are cyclically updated via the temperature information.

Functioning of the Error Correction Hardware during Instrum. Operation (Example: TX Path)



6.1.5 Program Package Performance Test

6.1.5.1 Starting the Program

- Boot the CMD for DOS, if required (see Section 6.1.1).
- Change directory: cd \service <ENTER>.
- Call performance-test program: ptp <ENTER>.

6.1.5.2 Operating the Program

The program can be operated either using the CMD keyboard or the external PC keyboard. That key on the external keyboard that corresponds to the softkey is given in brackets "<>". The default key has a double margin; it can be selected with any key which is not used, e.g. <SPACE KEY> or <ENTER>. The <ESC> key of the external keyboard can be used to abort the running test or the program.

Subsequent to the start messages, the CMD status is displayed. Check whether the instrument model and all options fitted have been exactly identified.

The program then prompts the user for the desired program status. It is advisable to use Option "External Reference" (CMD-B3), but it is not absolutely necessary. The test selection menu is then displayed. For selection of a menu item, use the keys <Cursor up>, <Cursor down>, <Page up> and <Page down> to position the cursor next to the menu item, then, press the <ENTER> key.

A test point is entered under the assumption that there is no connection to an external test instrument.

When a test has been selected, the user is prompted step by step to carry out various actions, such as:

connection of external measuring facilities to the CMD, settings and measurements on test instruments as well as reading off CMD-internal test results.

If the requested action has been executed, the test run is continued by pressing the default key. A number of measurements allow for repeating the current or the preceding measurement or to skip the subsequent measurement.

A few instructions are output together with additional information to ease troubleshooting.

Hotkey "Config"
The key "Config" permits to select a PTP/Performance test submenu, in which the major current settings of the transmit and receive path as well as the associated nominal levels at the main board interfaces are displayed.

This menu can be called from each menu item of the service software. This is indicated several times by means of the item "PTP prompt" in the troubleshooting trees (see section 6.4.1.1).

User-specific settings
In addition to the given test runs in the PTP menu, any settings can be performed by the user. For this purpose, select the menu item "Remote" and enter the single commands via an external keyboard (see remote-control commands, Section 6.8).

6.1.5.3 Tests To Be Performed

The test selection menu is divided into different sections.

There are different modes to select:

Mode	Function
Remote Control	User specific settings (see 6.1.5.4)
Configuration	Main instrument settings
Calculation of instrument correction data	Correction of RF-Inputs and Outputs (see 6.5.6)
Selftest	
Adjustments	HW-Adjustments
Performance Test	Predefined measure procedures

6.1.5.4 Remote-control Commands for the PTP Software

The following commands permit to perform any hardware settings and measurements via the RS232 interface as well as manually (PTP: menu "Remote Control") (see Section 6.8).

Example: Set CMD transmit frequency to 815 MHz

```
reset
set:tx:freq 815000000
```

6.2 Function Description Hardware

(Circuit diagram 1050.9008 S)

6.2.1 Power Supply

The switching power supply provides the operating voltages +5 V, +7 V, +12 V, +15 V, -15 V, +30 V and -30 V.

A +12-V voltage is provided in standby mode for heating of the OCXO reference oscillator (Option CMD-B1).

The power supply has three operating modes:

a) OFF (no LED is lit): switched off by means of switch on the power supply or by lack of ac voltage.

b) ON (green LED is lit): switched on by means of switch on the power supply and standby switch.

c) STANDBY (yellow LED is lit): power switch on the power supply is switched on and standby switch on the front panel is released.

This power supply is an OEM product of Rohde & Schwarz. In case of repair, it must be replaced.

6.2.2 RF Frontend

The RF frontend covers the frequency bands for the digital network.

It contains an output attenuator and a separated input attenuator.

A 20-dB power attenuator at the combined RF input/output allows for input levels up to +41 dBm to be applied.

In addition, a second sensitive RF input and a high-level output are provided.

The output voltage of a power measuring diode at the combined RF input/output is passed via an amplifier to a peak detector which is followed by a sample-and-hold circuit.

All board-specific data of the attenuators and amplifiers as well as the characteristic of the power measuring diode are stored in the EEPROM provided.

The module is controlled via a serbus decoder.

6.2.3 RF Synthesizer 1 including Sandwich board TX_Correctionboard

The module consists of a complete RF synthesizer in the frequency range 800 to 2200 MHz and conditioning of the reference frequency.

The main tasks of the RF synthesizer are:

- Generation of instrument reference and clock frequency
- Generation and modulation of the output frequency
- Variation of the output level by switch-selected attenuators and level fine tuning
- Correction of spurious variables and deviations from the rated values over the entire transmit path

Static settings are made via a serbus decoder.

Board-specific attenuator values and the amplitude characteristic are stored in the EEPROM.

6.2.4 Option B1 (OCXO)

This module contains a temperature-heated crystal with 10 MHz, which is applied to the synthesizer as instrument reference frequency.

6.2.5 Analog Downconverter(ADC)

This module processes the RF receive signal.
The RF receive signal is taken via a total of 3 IF stages.

The main tasks of the ADC are:

- Filtering the receive signal
- Converting the receive signal to IF for the link handler
- Converting the receive signal to IF for the measuring path (DDC)
- Conditioning of level test points with various bandwidths
- Correction of spurious values and deviations from rated values over the entire receive path.

Static settings are made via the serbus decoder.

Board-specific attenuations or amplifications are stored in the EEPROM.

6.2.6 AT Controller

The module contains a complete AT-compatible controller.

The peripheral components address decoder, interrupt controller, serbus master, video interface and battery-backed CMOS-RAM are accommodated on the main board.

The sandwich board incorporates an AT kernel including memory.

Besides, the module contains measuring amplifiers and the associated A/D converters for voltage and current measurement.

6.2.7 Link-Handler Module

This module provides for the necessary network-specific parameters (NETCLK+IQ-mod/demod data) and is delivered by cooperation partner.

6.2.8 Digital Downconverter including Sandwich Boards "Ditherunit" and "DSP-BOARD"

This module digitizes the last IF signal and provides the IQ signals to the link handler. It also handles the evaluation of the I/Q signals.

A DSP with direct interface to the AT controller stores incoming I/Q signals in a memory for post processing purposes.

6.2.9 Front Panel Boards 1 and 2

These two successive boards accommodate the control knob, the "PERIF"gate array for spinwheel and key actions, 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.

6.2.10 Option Board (CMD-B60) with IEEE Bus (CMD-B61) and Memory-Card Interface (CMD-B62, Model 04)

The board CMD-B60 accommodates the amplifier for the net clock output. Besides, it incorporates the control logic for further boards mainly in the FPGA D10.

The board CMD-B61 is a master-capable IEEE bus and is plugged onto the CMD-B60. The module CMD-B62 is located behind the front panel and allows for operation of PCMCIA memory cards.

6.2.11 DDS-Clockgenerator CL_DDSGEN (Option CMD-B84)

The board CL_DDSGEN 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.

The module is controlled via a serbus decoder.

6.3 Test Instruments and Utilities

RF frequency counter	up to 2.2 GHz	e.g. FSE
Power meter	up to 2.2 GHz, -37 to +13 dBm	e.g. NRVS
RF spectrum analyzer	up to 4 GHz	e.g. FSE
RF signal generator	up to 2.2 GHz	e.g. SMHU; SME
Oscilloscope		

Note:
The instruments mentioned below are required to completely check whether the data given in the data sheets are adhered to, however, a limited function and data test can be performed without these instruments.

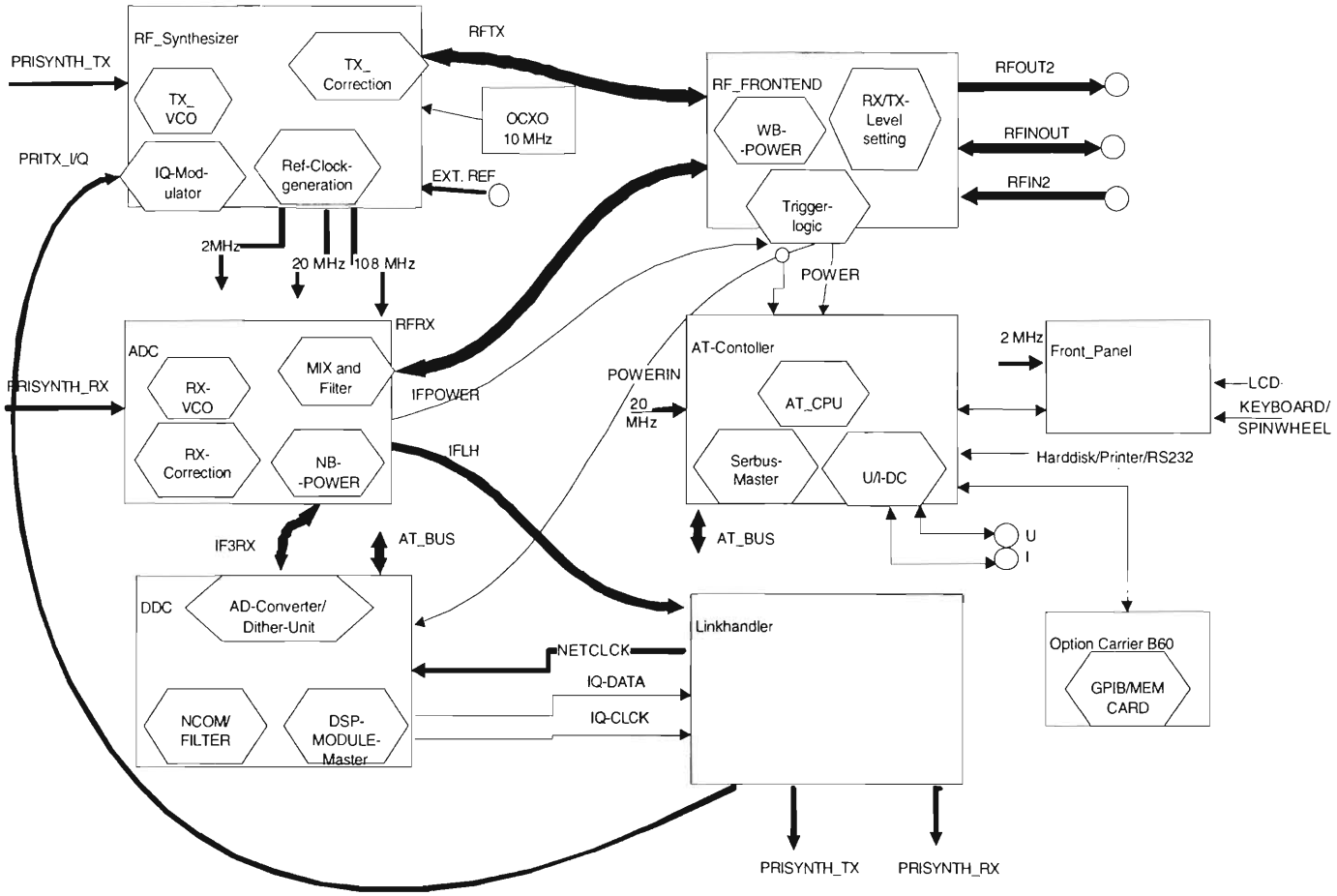
Modulation analyzer

6.4 Troubleshooting

Note:
The following section helps to quickly detect the faulty component depending on the described error symptom. Detailed errors within a module are not intended to be repaired. Instead, replace the faulty module completely and perform adjustment and measurement of correction data according to Section 6.5.2.

Subsequently check the rated specifications according to Section 6.6.

Overview CMD boards



6.4.1 Error Handling

Note:
The following section helps to quickly detect the faulty component depending on the described error symptom.

Troubleshooting is supported by using the service (PTP/Performancetest) software, which is started in the directory c:\service by means of <PTP>. The troubleshooting tree suggests a sequence for performing tests and the PTP points which are helpful for this purpose.

Notes on the PTP software

**** Hotkey "Config"***
The "Config" key is used to branch into a PTP submenu, in which the major current settings of the transmit and receive path are displayed.

This menu can be called from each menu item of the service software. In the troubleshooting trees (section 6.4.1.1), this is indicated several times by means of the item "PTP prompt ".

**** User-specific settings***
In addition to the given test sequences in the PTP menu, any settings can be made by the user. To this end, select the menu item "Remote" and enter the single commands via an external keyboard (see remote-control commands, Section 6.8).

General tests
In the case of all errors check that the connections (RF cable, connector, motherboard, etc.) are mechanically and electrically correct.

6.4.1.1 Troubleshooting

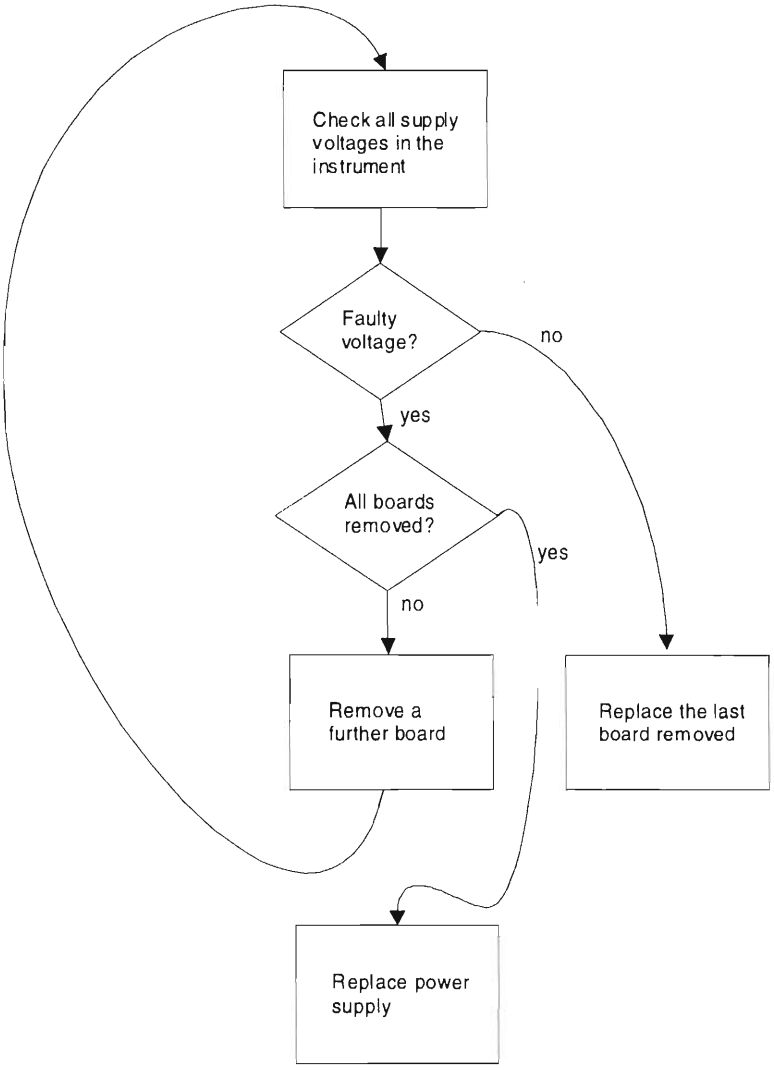
a) Instrument does not start up or boot

Possible error cause: - Voltage supply
- Controller board
- Hard disk

b) Instrument software is not running

Possible error cause:
* Voltage supply (see troubleshooting chart)

Voltage supply



* Controller board with controller faulty:
==> Replace controller board
- Hard disk faulty:
==> Replace hard disk
* RF synthesizer
==> Check clock supply: 108 MHz (X31 A29); 20 MHz (X31 A31); 2 MHz (X31 A23)

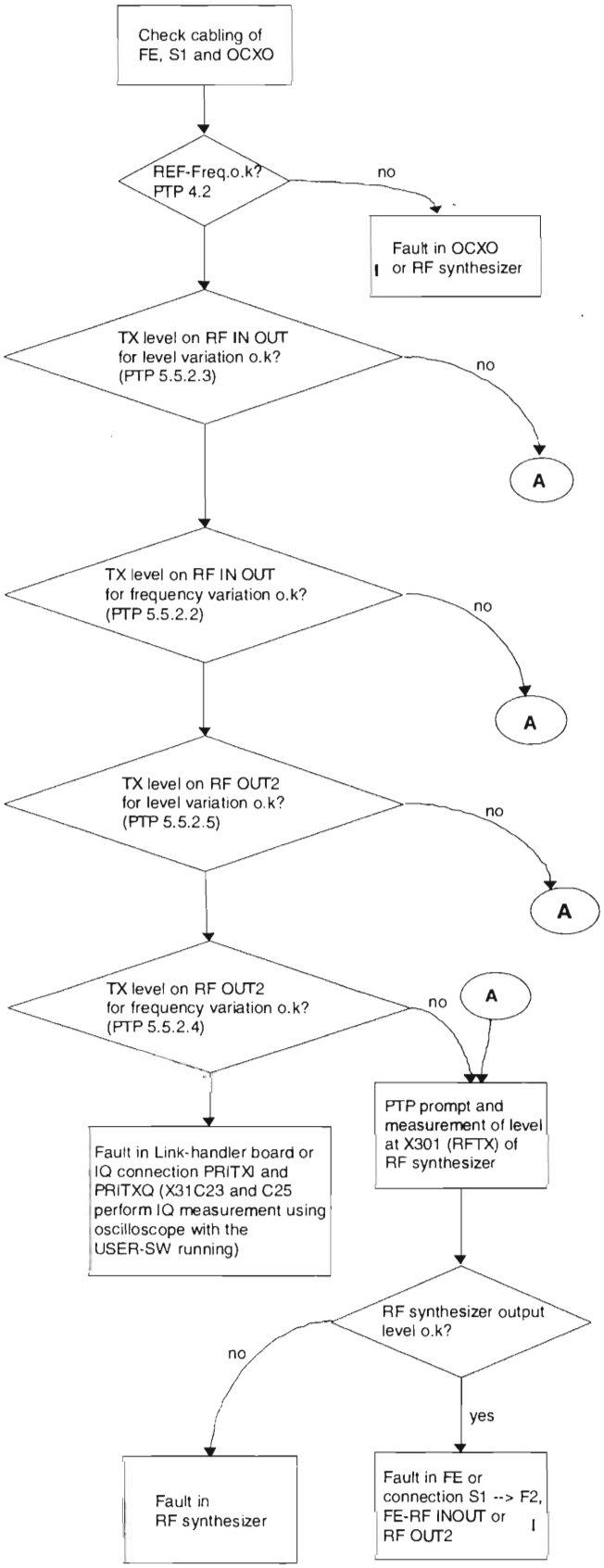
c) TX path faulty

** TX level faulty*

Possible error cause:

- RF frontend
- RF synthesizer
- Option B1

TX_PATH: Level faulty



** TX modulation faulty*
Possible error causes:
- RF synthesizer
- Link handler board

=> Check the modulation characteristics by means of the user software using the modulation analyzer;
Alternative:
=> Testing using the PTP SW 5.5.6 is possible,
however, for this purpose, a sinusoidal
(f_{IQ} approx. 10 kHz) IQ signal with $V_I=V_Q=\pm 1V_{pk}$ (offset <=1 mV)
must be generated using the link handler and applied to
PRITXI (X41 A21) and PRITXQ (X41 A22).

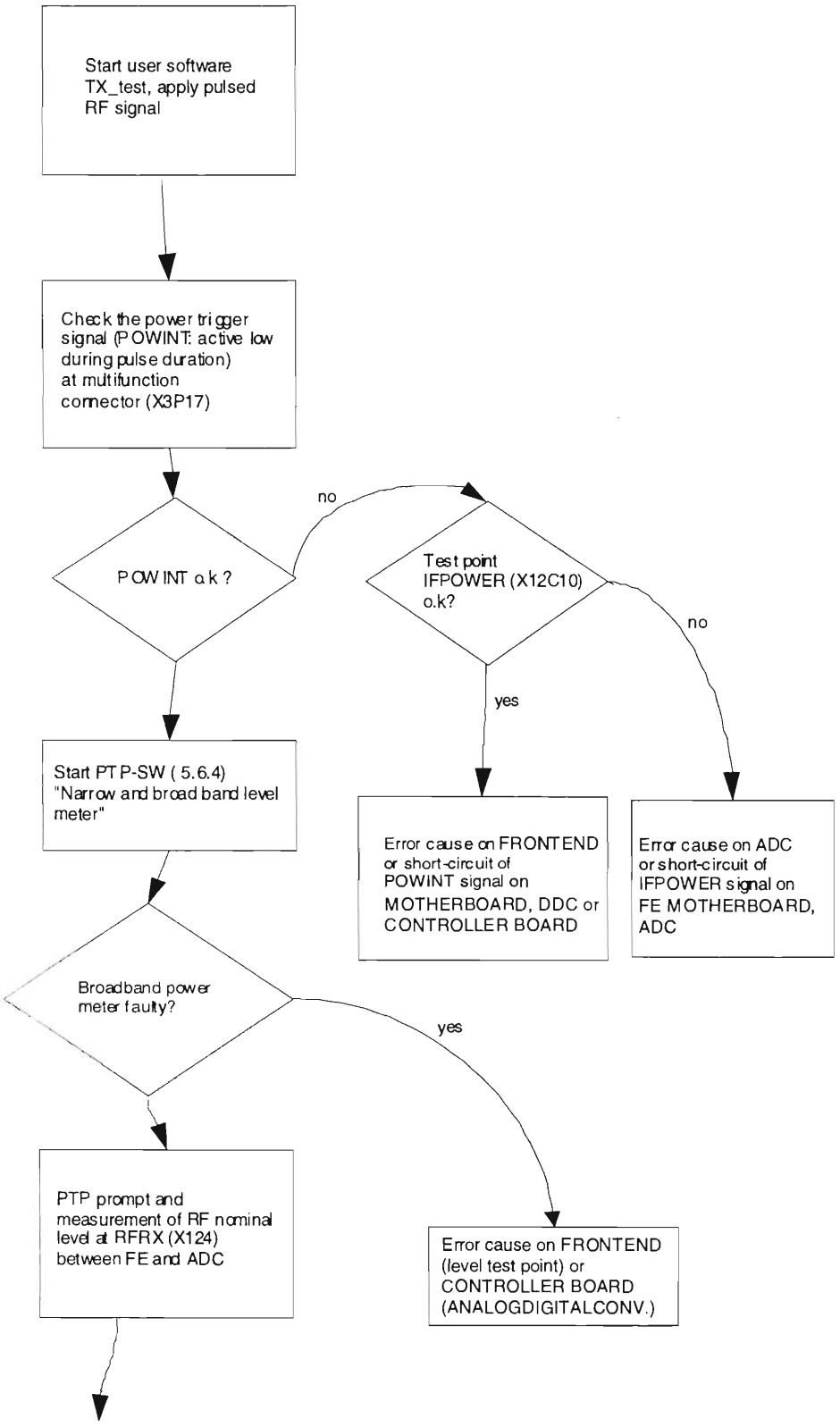
** Frequency error*
Possible error causes:
- RF synthesizer
- TCXO or Option B1 (OCXO)

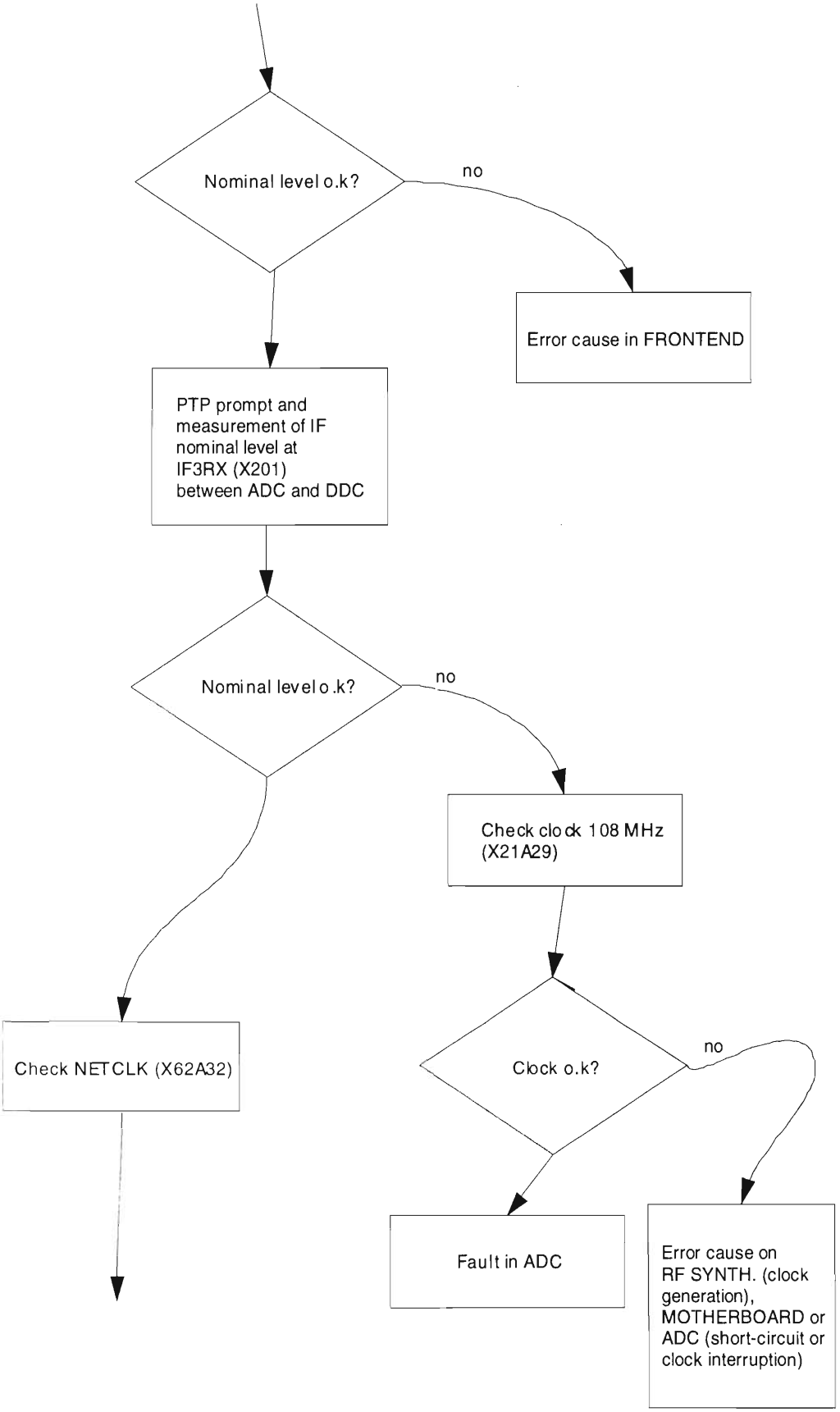
Check REF_frequency:
(PTP-SW 5.2)

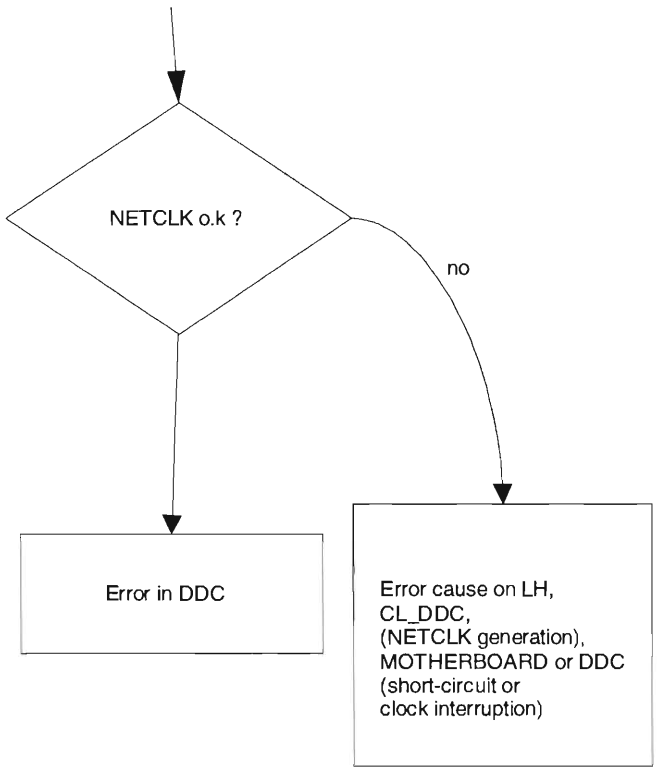
d) RX path faulty

* Power measurement faulty (see illustration below)
Possible error causes:
- RF frontend
- Analog downconverter (ADC)
- Digital downconverter (DDC)
- Link-handler board (clock generation for DDC)
- CL_DDCGEN B84 (clock generation for DDC)
- RF synthesizer (reference frequency + central clock supply)
- Controller board (AD converter for broadband power test point)

RX_PATH: Power measurement faulty




Nominal level o.k?
no
Error cause in FRONTEND
PTP prompt and measurement of IF nominal level at IF3RX (X201) between ADC and DDC
Nominal level o.k?
no
Check clock 108 MHz (X21A29)
Check NETCLK (X62A32)
Clock o.k?
no
Fault in ADC
Error cause on RF SYNTH. (clock generation), MOTHERBOARD or ADC (short-circuit or clock interruption)



==> Replace faulty module

** Problems when measuring the dynamic range (Leakage power, ACP measurement)*
==> Check the dynamic characteristics using PTP-SW (5.6.4.1 , 5.6.4.2 and 5.6.7)

** Frequency evaluation faulty*
Possible error causes:
- RF frontend
- Analog downconverter (ADC)
- Digital downconverter (DDC)
- RF synthesizer (reference frequency + central clock supply)

e) UI-DC measurement faulty (PTP 4.3)
Note: The DC test points are accommodated on the Controller board
- Adjustment faulty
- Controller board faulty
==> Replace controller board

f) Spinwheel does not work
Possible error causes:
- RF synthesizer (2-MHz clock generation)
- Front-panel board (PTP 5.1.1)

g) Remote control does not work

Possible error causes:
- Option B60
- Option B61
- Controller board faulty

h) Other error symptoms

for diagnosis of the board causing the error
see contents of the PTP-SW

6.5 Necessary Correction Measurements after Module Replacement or Repair

6.5.1 Hardware Adjustments

After replacing the modules, perform the following hardware adjustments using the service software:

Replaced module	Adjustment function	Test point No. in service software
RF synthesizer	-TCXO -OCXO	4.2.1 4.2.2
CPU board	+5 VREF I-DC	4.1 4.3

6.5.2 Software Adjustments (Calculation of error correction data)

Perform the following software procedures after module replacement:

All software functions must be started in the directory c:\service.

Replacement of analog downconverter

The following steps are required after replacing the ADC:

- Read EEPROM data from the modules ADC and FE
  and generate correction data for RX path and write to FLASHPROM:
  correct rx
- Measure correct data for the RX path narrow band (see 6.5.5 - 6.5.7)
- Generate correction data including data for RX path and write to FLASHPROM:
  correct -noread rx
- Check consistence of correction and EEPROM data:
  c70_hdc rx
  Each comparison performed (five comparisons per call) must have the result **identical**.
- Check the RX path (see Section 6.6)

Replacement of RF synthesizer

The following steps are required after replacing the RF synthesizer:

- Read EEPROM data from the synthesizer module and frontend
  and generate correction data for TX path and write to FLASHPROM:
  correct tx
- Measure correct data for the TX path (see 6.5.5 - 6.5.7)
- Run Complete Enhanced Transmitter Calibration **MODCAL** (see 6.5.3)
- Check consistence of correction and EEPROM data:
  c70_hdc tx
  Each comparison performed (five comparisons per call) must have the result **identical**.
- Check the TX path (see Section 6.6)

Replacement of RF frontend

The following steps are required after replacing the frontend:

- Read EEPROM data from the frontend, ADC, RF-Synthesizer
  and generate correction data for RX and TX path and write to FLASHPROM:
  correct both
- Measure correct data for the RX path narrow und wide band (see 6.5.5 - 6.5.7)
- Generate correction data including data for RX path and write to FLASHPROM:
  correct -noread rx
- Run Complete Enhanced Transmitter Calibration **MODCAL** (see 6.5.3)
- Check consistence of correction and EEPROM data:
  c70_hdc rx and **c70_hdc tx**
  Each comparison performed (five comparisons per call) must have the result **identical**.
- Check the RX and TX path (see section 6.6)

Replacement of hard disk

The following actions are required to install a new hard disk in the CMD:

- Order a new hard disk for the CMD with preinstalled software
- Install the hard disk
- Install the service software (see Section 6.1.2)
- Start CMD in service mode (see Section 6.1.5.1)
- Change to directory C:\SERVICE:
  cd \service
- Transfer the board data from the boards to the hard disk, i.e. enter the DOS command:
  c70_hd_c all
- Transfer the correction tables from the FLASHPROMs to the hard disk:
  c70_hdf f2h adc and **c70_hdf f2h syn1**
- Test whether the correction data (ca-file) can be recalled:
  c70_casv -d

- If the system returns that no ca-file is stored in the hardware, there are 2 options:

  a.) Order ca-file ca.eep (serial number of instrument!!) at central service in Munich
  *copy ca.eep to directory \cmd\eeprom
  ***correct -noread both**

  b.) Correct the whole RF-Paths
  *carry out the procedure described under "Replacement of RF frontend" (6.5.2).

- If the system returns that the ca-file is stored in the hardware, then:
- Restore the correction data of the instrument, i.e. enter the following DOS command:
  c70_casv -r
- Briefly check the RX and TX path (PTP: 5.5.2.2 and 5.6.4.1)
- Install CMD application software if necessary

6.5.3 Enhanced Module Calibration for Transmitter-Path: MODCAL

6.5.3.1 Introduction to Modcal

This software, that is part of all Service SW for versions >= 2.5, has been developed to increase the CMD80's transmit path level accuracy. Requirements are only a 6 dB splitter, an external 2 GHz wideband amplifier and a NRVD power meter with a set of three probes. In the appendix D the needed equipment is completely listed.

MODULE CALIBRATION updates the synthesizer and some frontend attenuator tables on the harddisk and in the board EEProms. Then all combinations of the synthesizer attenuators and most of all combinations of the frontend attenuators are measured. This measurements are done with continuous wave signals. At last an overall calibration for the whole transmit path in the CMD80 is performed using the CDMA signal from the TEK linkhandler.

The measurements are done automatically. The CMD80 controls the NRVD power meter via IEEE bus. MODUL CALIBRATION supports the RFINOUT and RFOUT2 connectors. The amount of time to do the MODUL CALIBRATION is about one hour for an unexperienced user.

6.5.3.2 Measurement Flow

6.5.3.2.1 Generals to Test-Setup

The NRVD is always connected with an IEEE cable to the CMD80. The NRVD is accessed as IEEE device number four. The power sensor NRV-Z4 is always plugged into slot B of NRVD. Application dependent the power sensor NRV-Z5 or NRV-Z51 is plugged into slot A of NRVD. The flow is described in the same order as it will appear to the user during MODUL CALIBRATION run time. All steps also displayed on the CMD80. To give an easier overview to the user, only the changes to the previous step of the flow will be described in this manual. On the CMD80's display each measurement is described completely, regardless of existing cabling which was already done for the previous measurement.

Warm up:
To get reasonable correction data, the CMD80 device should have been warmed up for more than 45 minutes. All measurements have to be performed with closed top lid.

6.5.3.2.2 Mechanical preparations

If MODULE CALIBRATION is applied first time, the user has to take a special set of RF cables and to use a special top lid for the CMD80. Two holes for connecting the RF cables have to be drilled into the top lid. This equipment is delivered as a part of the CMD-Z8 service kit. Mechanical data is listed in the appendix.

Note: The connector labels are printed on the shielding plates of the boards.

6.5.3.3 User Instructions to run MODCAL-SW

Installation Phase:

- Hook external keyboard to CMD80.
- Connect IEEE from CMD80 to power meter NRVD (IEEE-address: 4).
- Enter Service Mode and check Hardisk FAT, call: **c: chkdsk.**
- In case of chkdsk error correct it, call: **chkdsk /f.**
- Install MODCAL software. This only configures the CMD for Modcal operation and saves the current EEPROM data files. There is no additional software installation as modcal is part of the service software.
- Call: **ctrl** with parameter "**i**".
- Replace original lid with MODCAL-lid to enable connecting of power sensors.
- Terminate FE connector X124.
- Reboot CMD.

Execution Phase:

- Make sure the CMD has been warmed up for at least 45 minutes.
- "Zero" the NRVD. Caution, the power sensor must not be connected to any output. Make sure, that there is no signal at the power sensor.
- Initialize Link Handler and the Syntheziser LH level gain: Call Batch **ctrl**.bat with parameter "**iq**".
- Press key Module Test and change power value.
  Make sure that "system" is set to "CDMA".
- Allow the CMD to reboot, when finally requested.
- Perform Module Calibration: Start Batch **ctrl**.bat with parameter "**x**", which tells the user what to do.
- [Please note, the whole process is divided in many different steps. For each step you will get a online help on the display. All steps are described addtional in appendix A].
- Perform Overall TX calibration: Start Batch **ctrl**.bat with parameter "**xc**", which tells the user what to do.

Deinstallation Phase:

All these steps have to be done after ending the execution phase:

- Remove terminator at FE connector X124 (connect internal cable to X124).
- Remove modcal. This configures the CMD for normal operation as a radio communication tester. The Modcal software will not be deleted as it is part of standard service software.
- Call: **ctrl** with parameter "**r**".
- Reboot CMD.

Hardware Module Exchange during running of Modcal process

If you find out a defective module during Modcal process (any time between crtl i and crtl r) you have to take care for the following steps:

If Modcal is installed:

- Restore original state of the instrument, call: **CTRL o.**
- Exchange module according to Service Manual including the necessary correction measurements (Chapter 6.5 Necessary Correction Measurements after Module Replacement or Repair).
- Save new EEProm directory: Call: **CTRL save.**
- Run again a complete **Execution Phase** (see above) of MODCAL.

Note: Modcal assumes, that valid data of EEProm and Flashprom have already been stored on the harddisk.

6.5.4 Verification of Modcal result: VERTXLEV

This SW runs on an external PC and controls the CMD80 via remote control. This SW checks whether the TX-Path of the CMD is successfully adjusted. To run this SW you need the following Test-Setup:

Test Setup

• External PC CPU>=486, including IEEE488-Controller (Recommended manufactor National Instruments)
• PC-Cables: IEEE 488, RS232
• Powersplitter RVZ
• NRVD with Headset Z5, controlled via IEEE 488
• R&S-RF-Generator, controlled via IEEE 488
• R&S: RMS/PEAK-Voltmeter URE3, controlled via IEEE 488
• Powersupply ± 15 V
• R&S-Hardwarebox: VER_TX_LEV, including Control cable

Please note: The CMD and the RF-Generator must be synchronised via 10-MHz-Reference.

Installation of the SW "VERTXLEV":

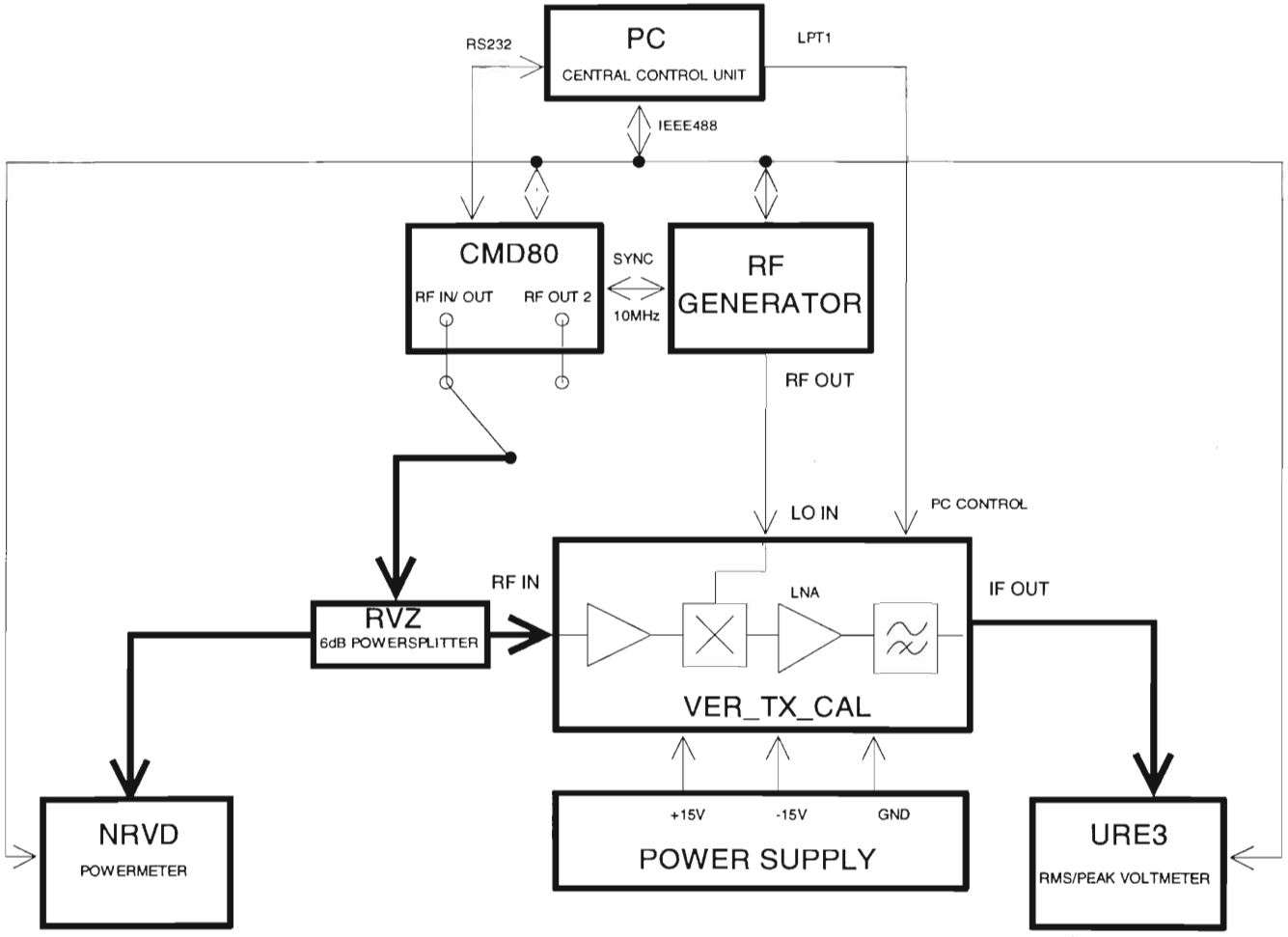
Insert the installation disk to your PC. The SW will automatically be installed to the directory C:\VERTXLEV if you run a:\setup from Windows File-Manager. The SW assumes a previous configuration of drivers that support the IEEE 488-Control card.

User Instructions:

You can find help-file named, 'README.WRI' in the directory C:\VERTXLEV.
The SW will be started in the directory in Windows by using the ICON 'VERTXLEV'.
Please follow the user instructions to run the SW.

VERTXLEV is delivered as a part of the CMD-Z8 service kit.

TEST SETUP FOR VERIFICATION OF TX LEVEL



6.5.5 Notes on measurement of correction data

After preplacing the modules, perform the following software procedures using the PTP (Measurement of correction data) for RX-PATH and the MODCAL-Software for TX-PATH:

Replaced module	Adjustment function	Test point No. in PTP software	MODCAL-Software
Frontend	- RX correction at input RFINOUT narrowband and wideband - RX correction at input RFIN2 narrowband and wideband - TX correction at input RFINOUT - TX correction at input RFOUT2	4.4 4.7 (4.10) (4.11)	 x x
ADC	- RX correction at input RFINOUT - RX correction at input RFIN2	4.4 4.7	
RF synthesizer	- TX correction at input RFINOUT - TX correction at input RFOUT2	(4.10) (4.11)	x x

6.5.6 Process for Determination of Instrument Correction Data with PTP: (PTP/RX 4.4...4.9)

After replacement of a RF-Board (FE, ADC or S1) you have to determine the resulting correction data for the RX- or TX-Path of the instrument. The correctiontables which support this item, consist of frequency and attenuation entries, corresponding with the error of the RF-level depending on the selected RF input or output.

If you use the PTP-menue 4.4...4.11 there is an interactive proposal of frequency entries for instrument correction. In the regular case these frequencies (matching to frequencybands of the supported network) should be used, but there is also the possibility to cancel or to add new frequency entries.

Userinterface of Instrument Correction:
The following example is valid for measuring standard TX-correction data at RF INOUT (PTP 4.10) on the condition that the proposal of frequencypoints are accepted by the user.
(Practising of RX-Input-correction is very similar!)

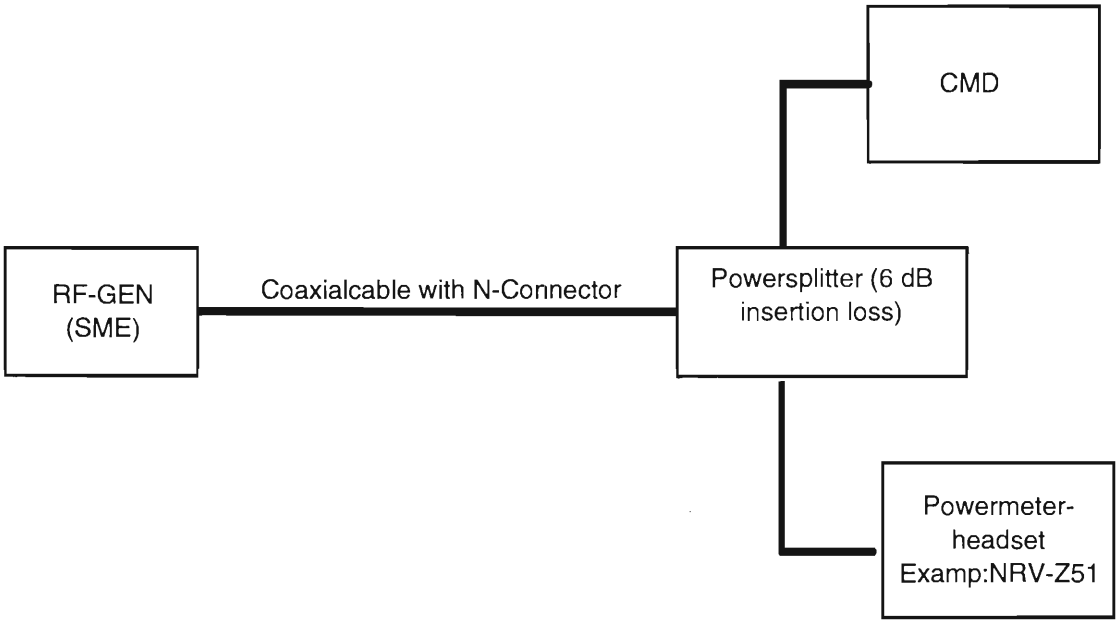
Actions by user	Explanation
1) Call PTP/4.10	; PTP-menue: TX-correction at RFINOUT
2) Connect ext. Powermeter to RF INOUT	
3) <continue>	; PTP proposes next frequency point for correction
4) <continue>	; user accepts the proposed frequency; ; PTP sets the RF_GEN to this frequency (unmodulated, no ramping) ; and sets the level to predefined value (-20 dBm) for this application
5) Input of the measured level (value from external power meter) via keyboard	; PTP calculates and checks TX-correction value for actual frequency ; If frequency table is not finished go on at action 3) (next freq. proposal)
6) <activate>	; frequency table is finished ; correction data are ready for storage
7) <yes>	; confirmation of storing correction data ; PTP stores new correction data to according table in file ca. eep
8) <continue>	; back to PTP-main menue

Please note:
After finishing of this process new instrument correction data for TX-Path via RFINOUT are stored, but they are **not yet used** for hardware setting!

Additional necessary steps to get the final correction state for the instrument:
(Please look exact description of sequence in chapter 6.5.2)
* Please complete all necessary instrument corrections (PTP/4.4...4.11) according to table 6.5.5.
* Return to 6.5.2.

6.5.7 Test setup for measurement of correction data with PTP

The following test setup is recommended for the measurement of RX correction data (PTP 4.4 - 4.9):



Notes:

- Prior to correction procedure, allow the instrument to warm up for approx. 60 minutes.
- No attenuator is required between cable and power splitter;
- An N-connector is inserted between power splitter and CMD ;
- If no power splitter is used, matching must be optimized by an external attenuator.
- A thermal power sensor, e.g. NRV-Z51, is connected to the second output of the power splitter.
- The correction procedure is according to the PTP menu (6.5.2).
- The test setup remains unchanged for all measurements (always use the same cables and test instruments).

In the case of standard TX correction (PTP 4.10, 4.11) connect the sensor of the power meter directly or via an appropriate attenuator to the outputs.

Correction frequencies:
The correction frequencies can be entered and expanded for the respective correction process in interactive mode. Useful sampling points for the measurement of correction data are the limits and the middle of the uplink or downlink band used.

Its recommanded to use the preset frequencies, which are suggested by the PTP-menu!

6.6 Checking the Specifications after Repair

The following tests must be performed using the service software following module replacement:

Replaced module	Test function	Test point No. in PTP software	Software: VERTXLEV
Frontend	Transmitter: - Frequency resolution accuracy - Level accuracy: * Frequency response * Dynamic - Harmonics - Nonharmonics - (Modulation error) - (TX-wideband spectrum) Receiver: - Frequency resolution - LO rejection - Power meter * Dynamic range and linearity * Frequency response * Reception filter (* Two-tone intermodulation) (* RX adjacent channel power)	 (5.5.1) (5.5.2) 5.5.3 5.5.4 5.5.6 5.5.7 5.6.1 5.6.3 5.6.4 5.6.5 5.6.6 5.6.7	 x x
ADC	Receiver: - Frequency resolution - LO rejection - Power meter * Dynamic range and linearity * Frequency response * Reception filter (* Two-tone intermodulation) (* RX adjacent channel power)	 5.6.1 5.6.3 5.6.4 5.6.5 5.6.6 5.6.7	
RF Synthesizer	Transmitter: - Frequency resolution accuracy - Level accuracy: * Frequency response * Dynamic - Harmonics - Nonharmonics - (Modulation error) - (TX wideband spectrum) Receiver: - RX frequency response at RFINOUT (implicitly: clock generation !)	 (5.5.1) (5.5.2) 5.5.3 5.5.4 5.5.6 5.5.8 5.6.4.3	 x x
DDC	Receiver: - Frequency resolution - Power meter * Dynamic range and linearity * Reception filter (* Two-tone intermodulation) (* RX adjacent channel power) (* Spurious test)	 5.6.1 5.6.4 5.6.5 5.6.6 5.6.7 5.6.8	
CPU-Board	DC-IU measurement	4.3.	
Frontpanel		5.1	
Option board B60/B61	IEC-bus test		
OCXO	Transmitter: - Frequency resolution accuracy	 5.5.1	

6.7 Removal and Assembly

(see also drawings at the end of chapter 6)

The CMD consists of a self-supporting frame of the compact design 90 with top and bottom cover.

The modular design (the boards of the CMD are designed as plug-in boards except for the front panel units) enables fast and easy repair or replacement, if required.

The electrical connections of the individual boards are implemented by a common motherboard. RF signals are connected via plug-in or screw-on coaxial cables.

A ventilator on the rear panel of the inctrument provides for cooling of the CMD boards.

The lateral perforation and the ventilation holes on the rear panel of the instrument must under no circumstances be covered.

6.7.1 Opening the Instrument

(see drawing on sheet no. 3)

Prior to opening, disconnect the instrument from ac supply.

- Undo the four captive Phillips screws on the rear panel feet. Withdraw the feet and detach the top and bottom cover to the rear.

Note!

The boards of the CMD can be replaced without time-consuming re-adjustment, since the board-specific interface data are stored on EEPROMs. However, subsequent to the board replacement, the EEPROM data must be transferred to the hard disk of the instrument since the CMD software accesses the hard disk and not the EEPROM directly (see section *6.5).*

6.7.2 Removal of Power Supply

(see drawing on sheet no. 3)

Note!

When service is required, the power supply has to be completely replaced (OEM product of Rohde & Schwarz).

- Undo the screws on the rear panel and carefully remove the power supply to the rear.

6.7.3 Removal of IEC/IEEE Bus (Option CMD-B61)

(see drawing on sheet no. 3)

- Undo the screws on the rear panel and carefully withdraw the plug-in board together with the small mounting panel.

6.7.4 Removal of Option Board (Option CMD-B60)

(see drawing on sheet no. 5)

Note!

The IEC/IEEE-bus option must be removed first!

- Unlock levers on both sides of the board and withdraw the board to the top.

6.7.5 Removal of RF Frontend

(see drawing on sheet no. 5)

- Carefully undo the solid-jacket cable on the bottom of the instrument (SMA socket).
- Undo the corresponding coaxial cable on top of the instrument.
- Unlock the board using the levers and withdraw to the top.

6.7.6 Removal of RF Boards

- Undo the respective coaxial cable on top of the instrument.
- Unlock the board using the levers and withdraw to the top.

6.7.7 Removal of Digital Boards

- Unlock the board using the levers and withdraw to the top.

6.7.8 Removal of Sandwich boards (Mostly Options) on other Boards

- Remove the basic board.
- Unscrew top cover.
- Carefully remove sandwich board by levering on all sides.

6.7.9 Removal of Membrane Keyboard

(see drawing on sheet no. 2)

- Unscrew rotary knobs for volume, contrast and variation.
- Unscrew labelling panel (large Phillips screws at the edges and small Phillips screws in the center).
- Undo connection of the membrane keyboard.
- Detach labelling panel and membrane keyboard to the front.

6.7.10 Removal of Mounting Panel

(see drawing on sheet no. 6)

- Unscrew rotary knobs for volume, contrast and variation.
- Unscrew labelling panel (large Phillips screws at the edges and small Phillips screws in the center).
- Undo connection of the membrane keyboard.
- Detach labelling panel with membrane keyboard.
- Undo Phillips screws of the mounting panel and carefully swing out the mounting panel to the front.

6.7.11 Removal of LCD and Transformer

(see drawing on sheet no. 6)

- Unscrew rotary knobs for volume, contrast and variation.
- Unscrew labelling panel (large Phillips screws at the edges and small Phillips screws in the center).
- Undo connection of the membrane keyboard.
- Detach labelling panel with membrane keyboard.
- Undo Phillips screws of the mounting panel and carefully swing out the mounting panel to the front.
- Disconnect connectors of ribbon cable and lighting.
- Undo Phillips screws of the LCD.
- Undo Phillips screws at the transformer.

6.7.12 Removal of Front Panel Boards 1 and 2

(see drawing on sheet no. 6)

- Unscrew rotary knobs for volume, contrast and variation.
- Unscrew labelling panel (large Phillips screws at the edges and small Phillips screws in the center).
- Undo connection of the membrane keyboard.
- Detach labelling panel with membrane keyboard to the front.
- Remove the first three plug-in boards on the right side of the instrument.
- Undo Phillips screws on the mounting-panel front.
- Disconnect plug-in connector of the ribbon cable from the front-panel board.
- Remove boards to the rear.

6.7.13 Assembly/Removal of Memory-Card Interface (Option CMD-B62)

(see drawing on sheet no. 7)

- Remove the first three plug-in boards on the right side of the instrument.
- Undo the lockout on the rear of the mounting panel.
- Fix the board to the rear of the mounting panel by screws.

6.7.14 Removal of Option B1(OCXO)

(see drawing on sheet no. 5)

- Disconnect the ribbon-cable connector.
- Remove OCXO module by undoing the screws at the bracket at the inner rear side of the instrument.
- Remove the support and unscrew the hard disk.

6.7.15 Removal of Hard Disk

(see drawing on sheet no. 5)

- Disconnect the ribbon-cable connector.
- Remove the complete support by undoing the screws on the right outside of the instrument.
- Remove the support and unscrew the hard disk.

6.8 Description of Remote-Control Commands for PTP Software

General

Note: Do not use *undefined* settings to transmit a path configuration. This will be removed by the PTP and *used* will be replaced by *lev*.

The Performance Test Program (PTP) is designed to prove the functionality of the CMD it allows low level access to hardware settings and measurements.

The PTP supports two modes: Manual Mode, which leads the user through complete tests and Remote Mode,which allows remote control of the PTP.

Basic Command Protocol

Each command begins with one of the following Command Headers:

PUT:

Saves a new parameter value in a device-internal database. There is no hardware setting and the new value is not used yet. A "passive" range check is performed, which means that only values that are totally out of range or senseless will be rejected. A corresponding SET command is always provided which activates the new value. PUT is usually used if a set of consistent parameters must be activated. As the syntax allows only one parameter to be passed during a command, PUT is used several times to pass all parameters of a set, and then this set is activated by means of a corresponding SET command. During the SET command, an "active" range check is usually performed, which means that all depending parameters of the corresponding set will be exactly checked.

SET:

Activates a new parameter or a new setting. This will immediately modify the hardware settings. An "active" range check is usually performed.

GET:

Reads out a parameter either from a database or directly from the hardware settings.

MEAS:

Performs a measurement and returns the measured value.

END:

(Hardkey MENU HOME:) exit the Remote Control.

Syntax

Command Header:Command: <Parameter>

Command Header and Command are required, the parameter is only required for particular commands (see chapter Commands).

Note: The parameter is always separated from the complete command string by a space. If the parameter is a number, the unit of the parameter must not be added. The unit is fixed and an implicit part of the command (see chapter commands).

Each command returns an OK/ERROR result string, even if *None* is specified as return parameter in the following command description. This string can also contain a returned value, which may be a measured value or an adapted input value. For details see chapter commands. In case of an error, a detailed error string will be returned.

Examples:

```
reset
set:tx:freq 815000000
```

Dependent Commands

Sometimes it is necessary to activate a set of consistent parameters at one time. Usually, the active range check cannot be performed unless all parameters are available. In this case, an undefined intermediate state with inconsistent parameters exists during the entry of parameters (some new parameters and still some old parameters). To enable a defined hardware state, the PTP saves such parameters in a database (PUT), and the activation must be performed explicitly (SET). Thus, a complete "active" range check is possible and the hardware is always in a defined state. All commands belonging to such a set are referred to as dependent commands. For details see chapter commands.

Input/Output Levels

All levels refer to the conditions directly existing at the device under test (DUT). A specified external attenuation is always taken into account automatically. Thus, the levels are only equal to the levels at the front-panel connectors if the external attenuations are set to 0.

Note:
The complete list of valid commands can be found in the file c:\service\PTP.txt

Overview of Remote Control Commands

get:dsp:filter
get:powerint
get:rx:active:lev
get:rx:cal:narrow:inout:max
get:rx:cal:narrow:inout:number
get:rx:cal:narrow:in2:max
get:rx:cal:narrow:in2:number
get:rx:cal:number
get:rx:cal:wide:inout:max
get:rx:cal:wide:inout:number
get:rx:cal:wide:in2:max
get:rx:cal:wide:in2:number
get:rx:error:correction:hw:state
get:rx:freq
get:rx:temp:lev:err
get:rx:wanted:lev
get:tx:active:unused
get:tx:active:used
get:tx:cal:inout:max
get:tx:cal:inout:number
get:tx:cal:out2:max
get:tx:cal:out2:number
get:tx:error:correction:hw:state
get:tx:freq
get:tx:wanted:unused
get:tx:wanted:used
meas:dsp:freq
meas:dsp:pow:avg
meas:dsp:pow:peak
meas:i:avg
meas:i:neg
meas:i:pos
meas:pow
meas:rx:cal:narrow:inout:node
meas:rx:cal:narrow:in2:node
meas:rx:cal:node
meas:rx:cal:wide:inout:node
meas:rx:cal:wide:in2:node
meas:temp
meas:u:bi
meas:u:uni
put:ext:att:in2
put:ext:att:inout
put:ext:att:out2
put:rx:cal:freq
put:rx:cal:lev
put:rx:cal:narrow:inout:freq
put:rx:cal:narrow:inout:lev
put:rx:cal:narrow:in2:freq
put:rx:cal:narrow:in2:lev
put:rx:cal:wide:inout:freq
put:rx:cal:wide:inout:lev
put:rx:cal:wide:in2:freq
put:rx:cal:wide:in2:lev
put:rx:con
put:rx:lev
put:tx:con
put:tx:i
put:tx:q
put:tx:unused
put:tx:used
reset
reset:powerint
set:dsp:dither
set:dsp:filter
set:internal:temp
set:lh:tx:freq
set:lh:rx:freq
set:lh:tx:gain
set:powerint:thres
set:ref:in
set:ref:in:freq
set:ref:out
set:rx
set:rx:cal:activate
set:rx:cal:activate:inout
set:rx:cal:activate:in2
set:rx:cal:narrow:inout:activate
set:rx:cal:narrow:inout:reset
set:rx:cal:narrow:in2:activate
set:rx:cal:narrow:in2:reset
set:rx:cal:reset
set:rx:cal:wide:inout:activate
set:rx:cal:wide:inout:reset
set:rx:cal:wide:in2:activate
set:rx:cal:wide:in2:reset
set:rx:freq
set:rx:vco
set:tx
set:tx:cal:inout:activate
set:tx:cal:inout:freq
set:tx:cal:inout:lev
set:tx:cal:out2:activate
set:tx:cal:out2:freq
set:tx:cal:out2:lev
set:tx:ctrl:unused
set:tx:ctrl:used
set:tx:freq
set:tx:iq
set:tx:vco

Commands

get:dsp:filter

Functional Description:

Reads the DSP input bandwidth.

Parameters: None

Default value: None

Return Values:

OFF	- for no filter
BW3KHZ	- for 3 kHz bandwidth
BW21KHZ	- for 21 kHz bandwidth
BW100KHZ	- for 100 kHz bandwidth
BW1MHZ2	- for 1.2 MHz bandwidth

Dependent Commands: None

get:powerint

Functional Description:

Reads the current power interrupt flag. The flag is always set if the level of the input signal is greater than the threshold specified by means of the command set:powerint:thres. The command reser:powerint resets the flag and clears the interrupt.

Parameters: None

Default value: None

Return Values:

POWER INTERRUPT OCCURED	- since last reset:powerint
NO POWER INTERRUPT OCCURED	- since last reset:powerint

Dependent Commands: None

get:rx:active:lev

Functional Description:

Reads the input power level for full range level. This command returns the actual setting of the hardware, which may differ from the wanted level that was set using the put command.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:rx:cal:narrow:inout:max

Functional Description:

Returns the maximal possible number of nodes for narrowband calculation of error correction data at RFINOUT.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:rx:cal:narrow:inout:number

Functional Description:

Returns the number of calibrated nodes, used for narrowband calculation of error correction data at RFINOUT yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:rx:cal:narrow:in2:max

Functional Description:

Returns the maximal possible number of nodes for narrowband calculation of error correction data at RFIN2.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:rx:cal:narrow:in2:number

Functional Description:

Returns the number of calibrated nodes, used for narrowband calculation of error correction data at RFIN2 yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:rx:cal:number

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function get:rx:cal:narrow:inout:number, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Returns the number of calibrated nodes, used for narrowband calculation of error correction data at RFINOUT yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:rx:cal:wide:inout:max

Functional Description:

Returns the maximal possible number of nodes for wideband calculation of error correction data at RFINOUT.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:rx:cal:wide:inout:number

Functional Description:

Returns the number of calibrated nodes, used for wideband calculation of error correction data at RFINOUT yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:rx:cal:wide:in2:max

Functional Description:

Returns the maximal possible number of nodes for wideband calculation of error correction data at RFIN2.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:rx:cal:wide:in2:number

Functional Description:

Returns the number of calibrated nodes, used for wideband calculation of error correction data at RFIN2 yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:rx:error:correction:hw:state

Functional Description:

Returns the state of the error correction hardware of RX-path.

Parameters: None

Default value: None

Return Values:

EC_HW_OK	- hardware usable, error correction hardware consistent
EC_HW_IN_PROGRESS	- hardware usable, loading of Flash-PROM correction data in progress
EC_HW_NOT_OK	- hardware not usable, error correction hardware inconsistent

Dependent Commands: None

get:rx:freq

Functional Description:

Reads receiver frequency.

Parameters: None

Default value: None

Return Values: Receiver frequency in Hz.

Dependent Commands: None

get:rx:temp:lev:err

Functional Description:

Reads remaining receiver temperature level error. This value is the difference between the used temperature interval correction value and the corresponding actual error, read out from the up/down converter board. This value depends on the current temperature interval, which can be updated in advance (See the command *set:internal:temp*).

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:rx:wanted:lev

Functional Description:

Reads the input power level for full range level. This command returns the wanted level that was set using the put command. The actual setting of the hardware may be different and can be read using the command get:rx:active:lev.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:tx:active:unused

Functional Description:

Reads the output power level of the unused timeslot. This command returns the actual setting of the hardware, which may differ from the wanted level that was set using the put command.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:tx:active:used

Functional Description:

Reads the output power level of the used timeslot. This command returns the actual setting of the hardware, which may differ from the wanted level that was set using the put command.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:tx:cal:inout:max

Functional Description:

Returns the maximal possible number of nodes for TX-path calculation of error correction data at RFINOUT.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:tx:cal:inout:number

Functional Description:

Returns the number of calibrated nodes, used for TX-path calculation of error correction data at RFINOUT yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:tx:cal:out2:max

Functional Description:

Returns the maximal possible number of nodes for TX-path calculation of error correction data at RFOUT2.

Parameters: None

Default value: None

Return Values: Maximal number of nodes

Dependent Commands: None

get:tx:cal:out2:number

Functional Description:

Returns the number of calibrated nodes, used for TX-path calculation of error correction data at RFOUT2 yet.

Parameters: None

Default value: None

Return Values: Number of calibrated nodes

Dependent Commands: None

get:tx:error:correction:hw:state

Functional Description:

Returns the state of the error correction hardware of TX-path.

Parameters: None

Default value: None

Return Values:

EC_HW_OK	- hardware usable, error correction hardware consistent
EC_HW_IN_PROGRESS	- hardware usable, loading of Flash-PROM correction data in progress
EC_HW_NOT_OK	- hardware not usable, error correction hardware inconsistent

Dependent Commands: None

get:tx:freq

Functional Description:

Reads the transmit frequency.

Parameters: None

Default value: None

Return Values: Transmit frequency in Hz.

Dependent Commands: None

get:tx:wanted:unused

Functional Description:

Reads the output power level of the unused timeslot. This command returns the wanted level, which was set with the put command. The actual setting of the hardware may be different and can be read using the command get:tx:active:unused.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

get:tx:wanted:used

Functional Description:

Reads the output power level of the used timeslot. This command returns the wanted level that was set using the put command. The actual setting of the hardware may be different and can be read using the command get:tx:active:used.

Parameters: None

Default value: None

Return Values: Power in dBm.

Dependent Commands: None

meas:dsp:freq

Functional Description:

DSP measurement of the frequency of the input signal. The input signal must lie in the range from 0 to -35 dB relative to the specified expected power (command put:rx:lev). Otherwise, an out-of-range error will occur.

Parameters: None

Default value: None

Return Values: Frequency in Hertz.

Dependent Commands: None

meas:dsp:pow:avg

Functional Description:

DSP measurement of the average power of the input signal.

Parameters: None

Default value: None

Return Values: Power in dBm

Dependent Commands: None

meas:dsp:pow:peak

Functional Description:

DSP measurement of the peak power of the input signal.

Parameters: None

Default value: None

Return Values: Power in dBm

Dependent Commands: None

meas:i:avg

Functional Description:

Measures the average current occurring during the measurement.

Parameters: None

Default value: None

Return Values: Average current in mA

Dependent Commands: None

meas:i:neg

Functional Description:

Measures the negative peak current occurring during the measurement.

Parameters: None

Default value: None

Return Values: Negative peak current in mA

Dependent Commands: None

meas:i:pos

Functional Description:

Measures the positive peak current occurring during the measurement.

Parameters: None

Default value: None

Return Values: Positive peak current in mA

Dependent Commands: None

meas:pow

Functional Description:

Input signal strength measured with diodes at different locations inside the CMD and converted to dB power values. Because of the limited input range of the diodes, an underflow or overflow could occur, which only means that the input for the sensor is out of range.

Parameters:

FE measured at the frontend board, converted to an absolute power value at the input connector, which was selected using the PUT:RX:CON command or by default. An underflow occurs at about 0 dBm at input RF INOUT and at about -25 dBm at RF IN2. This result does not depend on the expected power (see function set:rx:lev).

ADC measured at the analog down converter board, converted to an absolute power value at the input connector, which was selected using the PUT:RX:CON command or by default. If the input level is about -5 dB below the expected power, an underflow occurs. The dynamic range is about 10 dB.

REL_ADC measured at the analog down converter board, converted to a power value relative to the maximium permissible level at the analog down converter input. This only serves the purpose of checking the correct setting of the internal attenuators: if the return value is greater than 0dB, the analog down converter will be overdriven.

REL_DDC measured at the digital down converter board, converted to a power value relative to the maximium level at the digital down converter input. This only serves the purpose of checking the correct setting of the internal attenuators: if the return value is greater than 0dB, the digital down converter will be overdriven.

Default value: None

Return Values: dBm for absolute results (FE, ADC), dB for relative results (REL_ADC, REL_DDC)

Dependent Commands: None

meas:rx:cal:narrow:inout:node

Functional Description:

Performs a measurement of the current node at input RFINOUT (narrowband) and calculates the new error correction data. The new error correction data must be activated after measuring all nodes with the command set:rx:cal:narrow:inout:activate. A node assigns a level to a frequency.

The input power is assumed to be feed in directly at the RFIN/OUT connector. The external attenuation for connector RFIN/OUT is automatically set to 0dB. The power must be as specified in advance with the command put:rx:cal:narrow:inout:lev. The TX-path is switched off.

Note: This command requires valid level and frequency values of the current node. After a Reset these values are invalid.

Parameters: None

Default value: None

Return Values: Measured power in dBm

Dependent Commands:

put:rx:cal:narrow:inout:lev
put:rx:cal:narrow:inout:freq

meas:rx:cal:narrow:in2:node

Functional Description:

Performs a measurement of the current node at input RFIN2 (narrowband) and calculates the new error correction data. The new error correction data must be activated after measuring all nodes with the command set:rx:cal:narrow:in2:activate. A node assigns a level to a frequency.

The input power is assumed to be feed in directly at the RFIN2 connector. The external attenuation for connector RFIN2 is automatically set to 0dB. The power must be as specified in advance with the command put:rx:cal:narrow:in2:lev. The TX-path is switched off.

Note: This command requires valid level and frequency values of the current node. After a Reset these values are invalid.

Parameters: None

Default value: None

Return Values: Measured power in dBm

Dependent Commands:

put:rx:cal:narrow:in2:lev
put:rx:cal:narrow:in2:freq

meas:rx:cal:node

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function meas:rx:cal:narrow:inout:node, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Performs a measurement of the current node at input RFINOUT (narrowband) and calculates the new error correction data. The new error correction data must be activated after measuring all nodes with the command set:rx:cal:activate. A node assigns a level to a frequency.

The input power is assumed to be feed in directly at the RFIN/OUT connector. The external attenuation for connector RFIN/OUT is automatically set to 0dB. The power must be as specified in advance with the command put:rx:cal:lev. The TX-path is switched off.

Note: This command requires valid level and frequency values of the current node. After a Reset these values are invalid.

Parameters: None

Default value: None

Return Values: Measured power in dBm

Dependent Commands:
put:rx:cal:lev
put:rx:cal:freq

meas:rx:cal:wide:inout:node

Functional Description:

Performs a measurement of the current node at input RFINOUT (wideband) and calculates the new error correction data. The new error correction data must be activated after measuring all nodes with the command set:rx:cal:wide:inout:activate. A node assigns a level to a frequency.

The input power is assumed to be feed in directly at the RFIN/OUT connector. The external attenuation for connector RFIN/OUT is automatically set to 0dB. The power must be as specified in advance with the command put:rx:cal:wide:inout:lev. The TX-path is switched off.

Note: This command requires valid level and frequency values of the current node. After a Reset these values are invalid.

Parameters: None

Default value: None

Return Values: Measured power in dBm

Dependent Commands:
put:rx:cal:wide:inout:lev
put:rx:cal:wide:inout:freq

meas:rx:cal:wide:in2:node

Functional Description:

Performs a measurement of the current node at input RFIN2 (wideband) and calculates the new error correction data. The new error correction data must be activated after measuring all nodes with the command set:rx:cal:wide:in2:activate. A node assigns a level to a frequency.

The input power is assumed to be feed in directly at the RFIN2 connector. The external attenuation for connector RFIN2 is automatically set to 0dB. The power must be as specified in advance with the command put:rx:cal:wide:in2:lev. The TX-path is switched off.

Note: This command requires valid level and frequency values of the current node. After a Reset these values are invalid.

Parameters: None

Default value: None

Return Values: Measured power in dBm

Dependent Commands:
put:rx:cal:wide:in2:lev
put:rx:cal:wide:in2:freq

meas:temp

Functional Description:

Measures the current temperature of the specified board.This command only reads out the current internal temperature information, which is periodically updated. If it is necessary to measure the actual temperature, the internal information must be updated in advance (See command *set:internal:temp*).

Parameters:

SYN1 - Syntheziser 1
ADC - Analog down converter

Default value: None

Return Values: Temperature in degrees centigrade.

Dependent Commands: None

meas:u:bi

Functional Description:

Measures the voltage of the specified test point. Bipolar measuring mode is used.

Parameters:

POW
AUX
BATT
GND
S1DOSC108AMP
S1DOSC108TUNE
S1DOSC400TUNE
S1DFRACSYNTUNE
S1DPOW
S1DPOWSH
S1DTEMP
S1DFREQ
FED30V
FED15V
FED12V
FED7V7
FED5V
FEDM15V
FEDM7V
FEDTX20AMP
FEDRX20AMP
FEDIN2AMP
FEDIN2AMPOK
FEDPOW
FEDSHRESET
FEDSHCTRL
FEDPOWTRESH
FED0V
ADCDTEMP
ADCDFRACSYNTUNE
ADCPOW
PERDPOWVOLT

Default value: None

Return Values: Voltage in mV.

Dependent Commands: None

meas:u:uni

Functional Description:

Measures the voltage of the specified test point. Unipolar measuring mode is used.

Parameters:

POW
AUX
BATT
GND
S1DPOW
S1DPOWSH
S1DTEMP
S1DFREQ
FED30V
FED15V
FED12V
FED7V7
FED5V
FEDM15V
FEDM7V
FEDTX20AMP
FEDRX20AMP
FEDIN2AMP
FEDIN2AMPOK
FEDPOW
FEDPOWTRESH
FED0V
ADCDTEMP
ADCDFRACSYNTUNE
ADCPOW
PERDPOWVOLT

Default value: None

Return Values: Voltage in mV.

Dependent Commands: None

put:ext:att:in2

Functional Description:
Specifies the external attenuation in the signal path between the connector RFIN2 and the device under test. Must be activated using the command set:rx.

Parameters: Attenuation in dB. Range: -40 to 90 dB.

Default value: 0

Return Values: None

Dependent Commands:

put:rx::lev
put:rx:con

put:ext:att:inout

Functional Description:

Specifies the external attenuation in the signal path between the connector RFINOUT and the device under test. Must be activated using the command set:rx for the receive path and set:tx for the transmit path.

Parameters: Attenuation in dB. Range: -40 to 50 dB.

Default value: 0

Return Values: None

Dependent Commands:

put:rx:lev
put:rx:con
put:tx:con
put:tx:used
put:tx:unused

put:ext:att:out2

Functional Description:

Specifies the external attenuation in the signal path between the connector RFOUT2 and the device under test. Must be activated using the command set:tx.

Parameters: Attenuation in dB. Range: -40 to 90 dB.

Default value: 0

Return Values: None

Dependent Commands:

put:tx:con
put:tx:used
put:tx:unused

put:rx:cal:freq

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function put:rx:cal:narrow:inout:freq, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Part of Rx-path calculation of error correction data at input RFINOUT (narrowband):

Specifies the input frequency of the current node. A node assigns a level (put:rx:cal:lev) to a frequency. Complete node must be activated with the command meas:rx:cal:node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Input frequency for calculation of error correction data at RFINOUT (narrowband):

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:lev

put:rx:cal:lev

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function put:rx:cal:narrow:inout:lev, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Part of Rx-path calculation of error correction data at input RFINOUT (narrowband):
Specifies the input power level of the current node, at connector RFINOUT. A node assigns a level to a frequency (put:rx:cal:freq) This level must be accurate and can be measured with an external power-meter in advance. Complete node must be activated with the command meas:rx:cal:node.

Parameters: Power in dBm.
Input power range for calculation of error correction data: 3..5 dBm at RFINOUT.

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:freq

put:rx:cal:narrow:inout:freq

Functional Description:

Rx-path calculation of error correction data at input RFINOUT (narrowband):
Specifies the input frequency of the current node.A node assigns a level (put:rx:cal:narrow:inout:lev) to a frequency. Complete node must be activated with the command meas:rx:cal:narrow:inout:node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Input frequency for calculation of error correction data at RFINOUT (narrowband):

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:narrow:inout:lev

put:rx:cal:narrow:inout:lev

Functional Description:

Part of Rx-path calculation of error correction data at input RFINOUT (narrowband):
Specifies the input power level of the current node, at connector RFINOUT. A node assigns a level to a frequency (put:rx:cal:narrow:inout:freq). This level must be accurate and can be measured with an external power-meter in advance. Complete node must be activated with the command meas:rx:cal:narrow:inout:node.

Parameters: Power in dBm.
Input power range for calculation of error correction data: 3..5 dBm at RFINOUT.

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:narrow:inout:freq

put:rx:cal:narrow:in2:freq

Functional Description:

Rx-path calculation of error correction data at input RFIN2 (narrowband).
Specifies the input frequency of the current node. A node assigns a level (put:rx:cal:narrow:in2:lev) to a frequency. Complete node must be activated with the command meas:rx:cal:narrow:in2:node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Input frequency for auto-calculation of error correction data at RFIN2 (narrowband):

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:narrow:in2:lev

put:rx:cal:narrow:in2:lev

Functional Description:

Part of Rx-path calculation of error correction data at input RFIN2 (narrowband).
Specifies the input power level of the current node, at connector RFIN2. A node assigns a level to a frequency (put:rx:cal:narrow:in2:freq) This level must be accurate and can be measured with an external power-meter in advance. Complete node must be activated with the command meas:rx:cal:narrow:in2:node.

Parameters: Power in dBm.
Input power range for calculation of error correction data: -21..-19 dBm at RFIN2.

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:narrow:in2:freq

put:rx:cal:wide:inout:freq

Functional Description:

Part of Rx-path calculation of error correction data at input RFINOUT (wideband):
Specifies the input frequency of the current node. A node assigns a level (put:rx:cal:wide:inout:lev) to a frequency. Complete node must be activated with the command meas:rx:cal:wide:inout:node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Input frequency for calculation of error correction data at RFINOUT (wideband):

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:wide:inout:lev

put:rx:cal:wide:inout:lev

Functional Description:

Part of Rx-path calculation of error correction data at input RFINOUT (wideband):
Specifies the input power level of the current node, at connector RFINOUT. A node assigns a level to a frequency (put:rx:cal:wide:inout:freq) This level must be accurate and can be measured with an external power-meter in advance. Complete node must be activated with the command meas:rx:cal:wide:inout:node.

Parameters: Power in dBm.
Input power range for calculation of error correction data: 3..5 dBm at RFINOUT.

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:wide:inout:freq

put:rx:cal:wide:in2:freq

Functional Description:

Part of Rx-path calculation of error correction data at input RFIN2 (wideband).
Specifies the input frequency of the current node. A node assigns a level (put:rx:cal:wide:in2:lev) to a frequency. Complete node must be activated with the command meas:rx:cal:wide:in2:node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Input frequency for auto-calculation of error correction data at RFIN2 (wideband):

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:wide:in2:lev

put:rx:cal:wide:in2:lev

Functional Description:

Part of Rx-path calculation of error correction data at input RFIN2 (wideband).
Specifies the input power level of the current node, at connector RFIN2. A node assigns a level to a frequency (put:rx:cal:wide:in2:freq) This level must be accurate and can be measured with an external power-meter in advance. Complete node must be activated with the command meas:rx:cal:wide:in2:node.

Parameters: Power in dBm.
Input power range for calculation of error correction data: -21..-19 dBm at RFIN2.

Default value: None

Return Values: None

Dependent Commands:
put:rx:cal:wide:in2:freq

put:rx:con

Functional Description:

Selects the input connector. Must be activated using the command set:rx.

Parameters:

RFINOUT - connector is RFINOUT
RFIN2 - connector is RFIN2

Default value: RFINOUT

Return Values: None

Dependent Commands:

put:rx:lev
put:rx:con
put:ext:att:in2
put:ext:att:inout

put:rx:lev

Functional Description:

Specifies the input power level for full range level (expected power). Must be activated using the command set:rx.

Parameters: Power in dBm.
If connector is RFINOUT: Range -28 to 41 dBm. External attenuation 0dB.
If connector is RFIN2: Range -69 to 0 dBm. External attenuation 0dB.

Default value: 41

Return Values: None

Dependent Commands:

put:rx:lev
put:rx:con
put:ext:att:in2
put:ext:att:inout

put:tx:con

Functional Description:

Selects the output connector. Must be activated using the command set:tx.

Parameters:

RFINOUT - connector is RFINOUT
RFOUT2 - connector is RFOUT2

Default value: RFINOUT

Return Values: None

Dependent Commands:

put:tx:used
put:tx:unused
put:ext:att:out2
put:ext:att:inout

put:tx:i

Functional Description:

Selects the I modulation signal source of the synthesizer. Must be activated using the command set:tx:iq.

Parameters:

0V	- 0 volt ground, can only be activated if put:tx:q is not equal to -1V
1V	- +1 volt
-1V	- -1 volt, can only be activated if put:tx:q is not 0V
PRITXI	- I connector of link handler and synthesizer
PRITXQ	- Q connector of link handler and synthesizer

Default value: 1V

Return Values: None

Dependent Commands:

put:tx:q

put:tx:q

Functional Description:

Selects the Q modulation signal source of the synthesizer. Must be activated using the command set:tx:iq.

Parameters:

0V	- 0 volt ground, can only be activated if put:tx:q is not -1V
1V	- +1 volt
-1V	- -1 volt, can only be activated if put:tx:q is not 0V
PRITXI	- I connector of link handler and synthesizer
PRITXQ	- Q connector of link handler and synthesizer

Default value: 0V

Return Values: None

Dependent Commands:

put:tx:i

put:tx:unused

Functional Description:

Specifies the output power level of the unused timeslot relative to the used timeslot level. Must be activated using the command set:tx.

Parameters: Power in dB. Range -20 to 0 dB. Absolute limits of the used timeslot level cannot be exceeded.

Default value: 0

Return Values: None

Dependent Commands:

put:tx:con
put:tx:used
put:ext:att:out2
put:ext:att:inout

put:tx:used

Functional Description:

Specifies the output power level of the used timeslot. Must be activated using the command set:tx.

Parameters: Power in dBm.
If connector is RFINOUT. Range -124 to -15 dBm. External attenuation 0dB.
If connector is RFOUT2. Range -105 to +10 dBm. External attenuation 0dB.

Default value: -100

Return Values: None

Dependent Commands:

put:tx:con
put:tx:unused
put:ext:att:out2
put:ext:att:inout

reset

Functional Description:

Resets all parameters of the internal databases and the hardware to the default values specified in the command description.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

reset:powerint

Functional Description:

Clears the power interrupt. Resets the power interrupt flag. If a signal that exceeds the threshold level is applied, the get:powerint command will return OK NO POWER INTERRUPT OCCURED.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:dsp:dither

Functional Description:

Controls the DDC Dither Unit Mode.

Parameters:

OFF	- no dither unit active
CORR	dither unit and correction filter active
NOCORR	dither unit without correction filter active

Default value: CORR

Return Values: None

Dependent Commands: None

set:dsp:filter

Functional Description:

Sets the DSP input bandwidth.

Parameters:

OFF	- no filter
BW3KHZ	- for 3-kHz bandwidth
BW21KHZ	- for 21-kHz bandwidth
BW100KHZ	- for 100-kHz bandwidth
BW1MHZ2	- for 1.2-MHz bandwidth. Caution: this filter features an attenuation of 0.6dB at an offset of 600 kHz from the center frequency

Default value: BW21KHZ

Return Values: None

Dependent Commands: None

set:internal:temp

Functional Description:

Triggers an immediate update of the internal temperature registers. After this command, the next automatical update will not be performed before the complete update interval has expired. This enables, for example, the temperature and the level to be measured with the corresponding temperature range during RX correction. A temperature measurement performed directly after this update will return the current temperature.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:lh:tx:freq

Functional Description:

Sets the transmit frequency with test link handler access. It overrides the set:tx:freq setting.

Parameters: Transmit frequency in Hz. Range: 800 000 000 to 2 200 000 000 Hz.

Default value: None, default is set using the command set:tx:freq.

Return Values: None

Dependent Commands: None

set:lh:rx:freq

Functional Description:

Sets the receiver frequency with test link handler access. It overrides the set:rx:freq setting.

Parameters: Receiver frequency in Hz. Range: 773 300 000 to 2 200 000 000 Hz.

Default value: None, default is set using the command set:rx:freq.

Return Values: None

Dependent Commands: None

set:lh:tx:gain

Functional Description:

Sets the output power level gain of the link handler. As there is no amplifier, the gain is always negative, which is why only attenuation is possible.

Parameters: Gain in dB. Range 0 to -121.1 dB

Default value: 0

Return Values: None

Dependent Commands: None

set:powerint:thres

Functional Description:

Sets the power interrupt threshold.

Parameters: Level relative to expected rx power in dB. Range: 0 to -100 dB.

Default value: -20

Return Values: None

Dependent Commands: None

set:ref:in

Functional Description:

Sets the input reference source.

Parameters:

INTERN	- Internal reference
EXTERN	- External reference

Default value: INTERN

Return Values: None

Dependent Commands: None

set:ref:in:freq

Functional Description:

Sets the input reference frequency for the input reference external mode.

Parameters: Reference input frequency in Hz. Range: 100 000 to 40 000 000 Hz, in 10-kHz steps.

Default value: 10 000 000

Return Values: None

Dependent Commands: None

set:ref:out

Functional Description:

Sets the output reference source.

Parameters:

REF_IN - Input reference
REF_10MHZ - 10 MHz fixed frequency, synchronized to input reference

Default value: REF_IN

Return Values: None

Dependent Commands: None

set:rx

Functional Description:

Activates the receive settings. All values that have not been saved using the put command are set to their default value. If there is any inconsistency among the dependent parameters, the respective parameters will be automatically adapted. In this case, this command produces an error, indicating the adapted parameters. The parameters, adapted if necessary, are set in the hardware. The active parameters, which are set in the hardware, can be read using get:rx:active:... .

Parameters: None

Default value: None

Return Values: None

Dependent Commands:

put:ext:att:in2
put:ext:att:inout
put:rx:lev
put rx:con

set:rx:cal:activate

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function set:rx:cal:narrow:inout:activate, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Activates all new error correction data calculated from the current nodes. These nodes were created with the command meas:rx:cal:node.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:activate:inout

Functional Description:

Activates all new attenuations calculated from the current nodes for processing in auto-calibration. These nodes were created using the command meas:rx:cal:node. No changes occur at the device.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:activate:in2

Functional Description:

Activates all new attenuations calculated from the current nodes for processing in auto-calibration. These nodes were created using the command meas:rx:cal:node:in2. No changes occur at the device.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:narrow:inout:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at RX-path input RFINOUT (narrowband). These nodes were created with the command meas:rx:cal:narrow:inout:node.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:narrow:inout:reset

Functional Description:

Reset the number of measured nodes used for RX-path calculation of error correction data at RFINOUT (narrowband) to 0.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:narrow:in2:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at RX-path input RFIN2 (narrowband). These nodes were created with the command meas:rx:cal:narrow:in2:node.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:narrow:in2:reset

Functional Description:

Reset the number of measured nodes used for RX-path calculation of error correction data at RFIN2 (narrowband) to 0.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:reset

Functional Description:

Don't use this function in new created remote programs any more.
This function is identical to the function set:rx:cal:narrow:inout:reset, which is compatible to the extended calculation of error correction data of RX-Wideband and Tx-path function. To support already existing remote control programs this function still exists.

Reset the number of measured nodes used for calculation of error correction data at RFINOUT to 0.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:wide:inout:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at RX-path input RFINOUT (wideband). These nodes were created with the command meas:rx:cal:wide:inout:node.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:wide:inout:reset

Functional Description:

Reset the number of measured nodes used for RX-path calculation of error correction data at RFINOUT (wideband) to 0.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:wide:in2:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at RX-path input RFIN2 (wideband). These nodes were created with the command meas:rx:cal:wide:in2:node.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:cal:wide:in2:reset

Functional Description:

Reset the number of measured nodes used for RX-path calculation of error correction data at RFIN2 (wideband) to 0.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:rx:freq

Functional Description:

Sets the receiver frequency with the SERBUS access. It overrides the set:lh:rx:freq setting.

Parameters: Receiver frequency in Hz. Range: 773 300 000 .. 2 200 000 000 Hz.

Default value: 815 000 000

Return Values: None

Dependent Commands: None

set:rx:vco

Functional Description:

Turns the local oscillator from ADC-board ON or OFF.

Parameters: ON, OFF

Default value: ON

Return Values: None

Dependent Commands: None

set:tx

Functional Description:

Activates the transmit settings. All values that have not been saved before using the put command are set to their default value. If there is any inconsistency among the dependent parameters, the respective parameters will be automatically adapted. In this case, this command produces an error, indicating the adapted parameters. The parameters, adapted if necessary, are set in the hardware. The active parameters, which are set in the hardware, can be read with get:tx:active:... .

Parameters: None

Default value: None

Return Values: None

Dependent Commands:

put:tx:used
put:tx:unused
put:tx:con
put:ext:att:out2
put:ext:att:inout

set:tx:cal:inout:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at TX-path output RFINOUT. These nodes were created with the command set:tx:cal:inout:lev.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:tx:cal:inout:freq

Functional Description:

Part of Tx-path calculation of error correction data at Output RFINOUT:
Specifies the output frequency of the current node. A node assigns a level (set:tx:cal:inout:lev) to a frequency. Sets the TX-path to Output RFINOUT, output-level to -20 dBm and output-frequency to the passed value.

The output level can then be measured at Output RFINOUT. The external attenuation for connector RFIN/OUT is automatically set to 0dB. With the command set:tx:cal:inout:lev this level can be passed to the CMD to enable calculation of the error correction data for the current node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Output frequency for TX-path calculation of error correction data at RFINOUT:

Default value: None

Return Values: None

Dependent Commands: None

set:tx:cal:inout:lev

Functional Description:

Part of Tx-path calculation of error correction data at output RFINOUT:
Calculates the error correction data for the current node dependant on the passed level. A node assigns a level to a frequency (set:tx:cal:inout:freq). This level is assumed to be feed directly into the connector RFINOUT. The level can be measured in advance with an external power meter as soon as the output signal was specified with the command set:tx:cal:inout:freq.

Note: This command requires a valid frequency value of the current node. After a Reset this value is invalid.

Parameters: Power in dBm.
Output power range for calculation of error correction data: -22,5..-17,5 dBm at RFINOUT.

Default value: None

Return Values: None

Dependent Commands: None

set:tx:cal:out2:activate

Functional Description:

Activates all new error correction data calculated from the current nodes at TX-path output RFOUT2. These nodes were created with the command set:tx:cal:out2:lev.

Parameters: None

Default value: None

Return Values: None

Dependent Commands: None

set:tx:cal:out2:freq

Functional Description:

Part of Tx-path calculation of error correction data at Output RFOUT2:
Specifies the output frequency of the current node. A node assigns a level (set:rx:cal:out2:lev) to a frequency. Sets the TX-path to Output RFOUT2, output-level to 0 dBm and output-frequency to the passed value.

The output level can then be measured at Output RFOUT2. The external attenuation for connector RFOUT2 is automatically set to 0dB. With the command set:tx:cal:inout:lev this level can be passed to the CMD to enable calculation of the error correction data for the current node.

Parameters: Frequency in Hz. Must be rounded in MHz (Frequency % 1000000 = 0)
Output frequency for TX-path calculation of error correction data at RFOUT2:

Default value: None

Return Values: None

Dependent Commands: None

set:tx:cal:out2:lev

Functional Description:

Part of Tx-path calculation of error correction data at output RFOUT2:
Calculates the error correction data for the current node dependant on the passed level. A node assigns a level to a frequency (set:tx:cal:out2:freq) This level is assumed to be feed directly into the connector RFOUT2. The level can be measured in advance with an external power meter as soon as the output signal was specified with the command set:tx:cal:out2:freq.

Note: This command requires a valid frequency value of the current node. After a Reset this value is invalid.

Parameters: Power in dBm.
Output power range for calculation of error correction data: -2,5...2,5 dBm at RFOUT2.

Default value: None

Return Values: None

Dependent Commands: None

set:tx:ctrl:unused

Functional Description:

Turns ON or OFF the unused timeslot of the output signal.

Parameters: ON, OFF

Default value: OFF

Return Values: None

Dependent Commands: None

set:tx:ctrl:used

Functional Description:

Turns ON or OFF the used timeslot of the output signal.

Parameters: ON, OFF

Default value: OFF

Return Values: None

Dependent Commands: None

set:tx:freq

Functional Description:

Sets the transmit frequency with the SERBUS access. It overrides the set:lh:tx:freq setting.

Parameters: Transmit frequency in Hz. Range: 800 000 000 .. 2 200 000 000 Hz.

Default value: 815 000 000

Return Values: None

Dependent Commands: None

set:tx:iq

Functional Description:

Activates the modulation signal source settings of the synthesizer. All values that have not been put before are set to their default value. If there is any inconsistency of the dependent parameters, nothing is changed. In this case, this command returns with an error. The parameters are set in the hardware.

Parameters: None

Default value: None

Return Values: None

Dependent Commands:

put:tx:i
put:tx:q

set:tx:vco

Functional Description:

Turns the local oscillator from synthesizer-board ON or OFF.

Parameters: ON, OFF

Default value: ON

Return Values: None

Dependent Commands: None

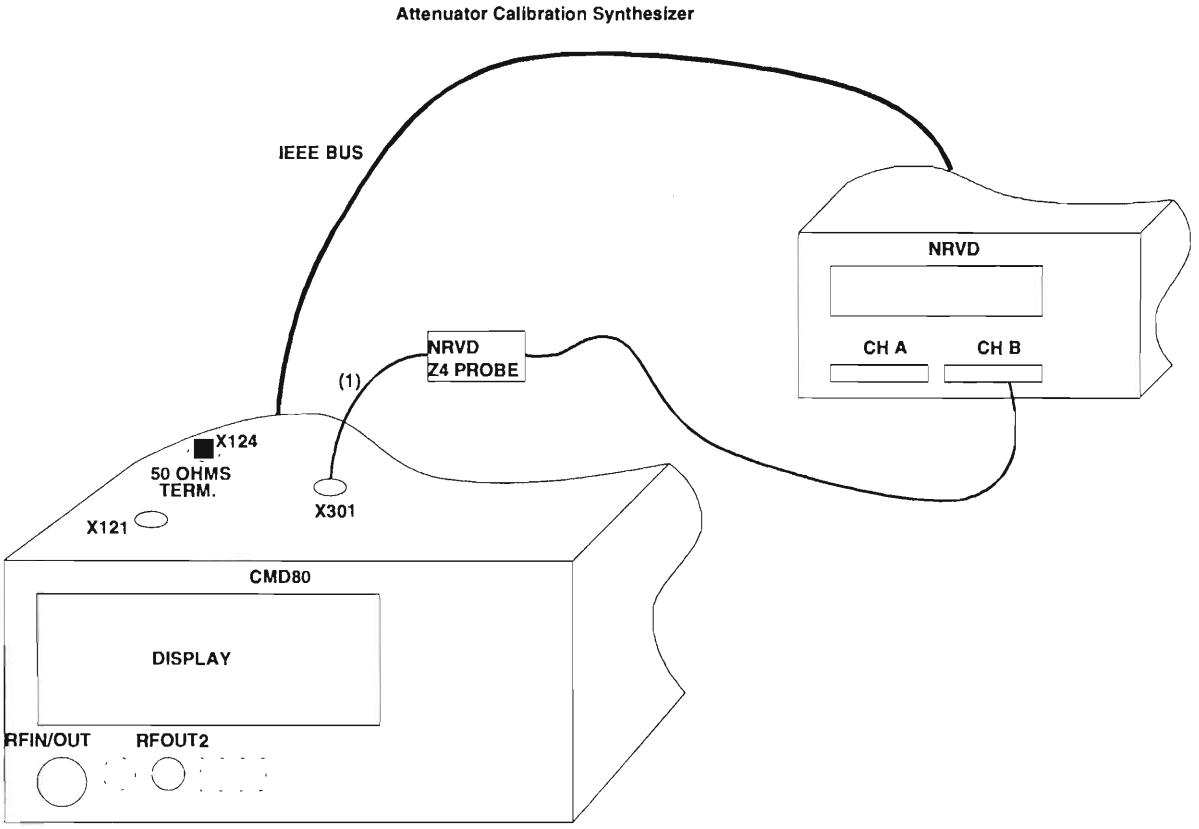
Appendix A

Description of the Test Setup for each step of Modcal

Step: Attenuator Calibration Synthesizer

Description: This test performs a measurement of the 5 dB, 10 dB and 20 dB step attenuators on the synthesizer board.

Test arrangement drawing:



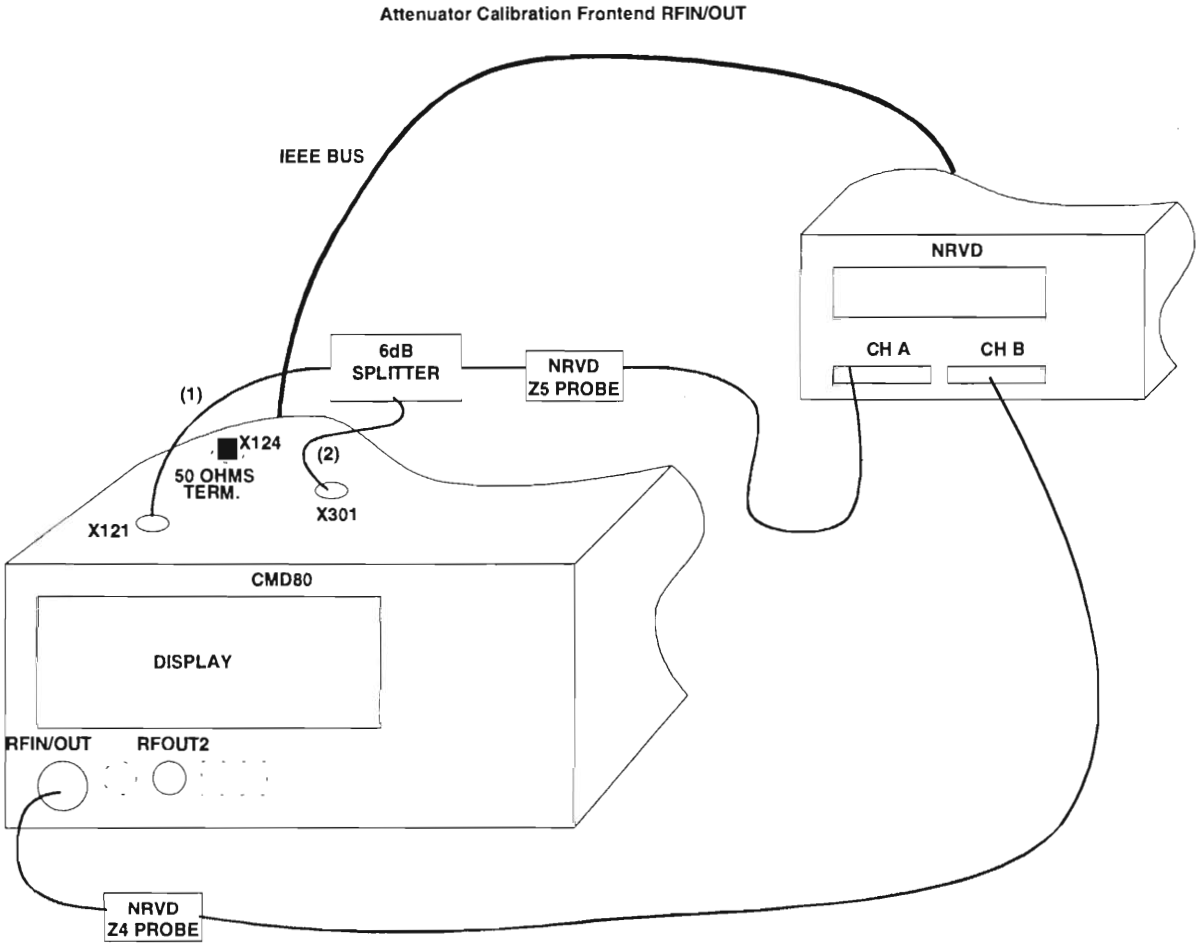
Procedure:

- Remove the original top lid.
- Disconnect original cable W6 from connector X301 on the RF Synthesizer board and connector X121 on the RF Frontend board.
- Disconnect original cable W5 from connector X124 on the RF Frontend board.
- Connect 50 OHMS terminator to X124. The recommended terminator is so small, that no extra hole is necessary.
- Mount the drilled top lid.
- Connect power sensor Z4 with N-SMC cable (1) to synthesizer output X301.

Step: Attenuator Calibration Frontend RFIN/OUT

Description: This test performs a measurement of the Frontend TX amplifier and of the Frontend TX path basic gain to connector RFIN/OUT.

Test arrangement drawing:



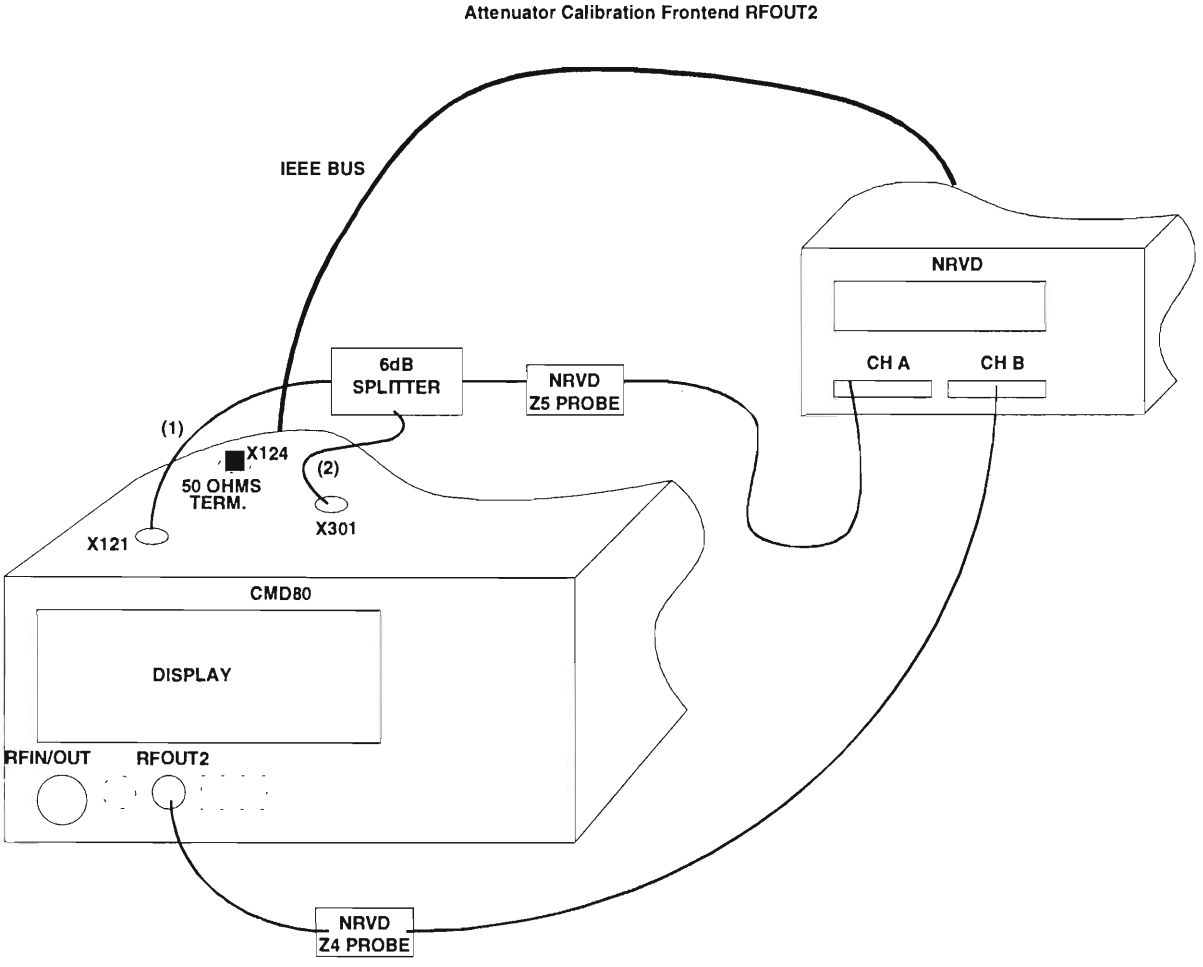
Procedure:

- Connect power sensor Z4 directly to connector RFIN/OUT.
- Insert power sensor Z5 into slot A of NRVD.
- Connect power sensor Z5 directly to power splitter port 2.
- Connect power splitter port 1 with N-SMC cable (1) to frontend connector X121.
- Connect power splitter sum port with N-SMC cable (2) to synthesizer connector X301.

Step: Attenuator Calibration Frontend RFOUT2

Description: This test performs a measurement of the Frontend 5 dB, 10 dB, 20 dB step attenuators and of the Frontend TX path basic gain to connector RFOUT2.

Test arrangement drawing:



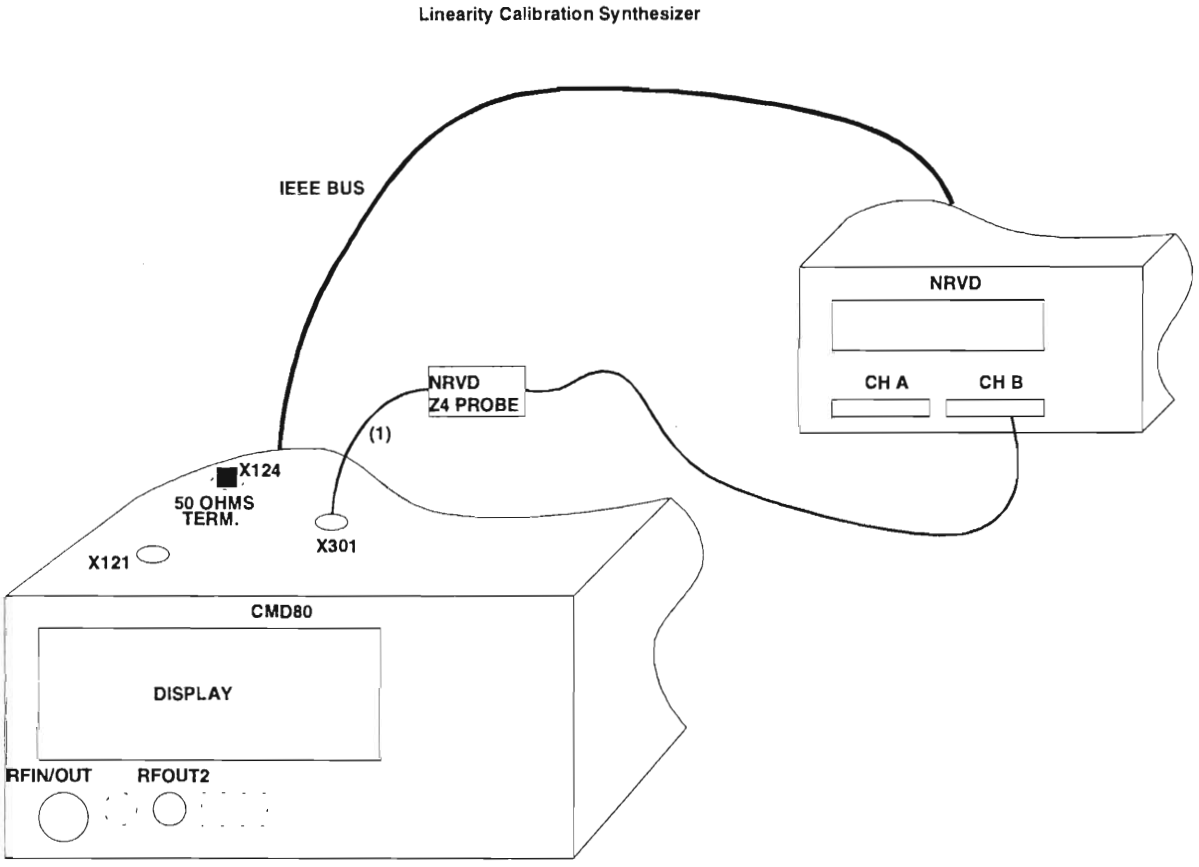
Procedure:

- Connect power sensor Z4 with BNC/N adapter to connector RFOUT2.

Step: Linearity Calibration Synthesizer

Description: This test performs a measurement of all synthesizer step attenuator combinations.

Test arrangement drawing:



Procedure:

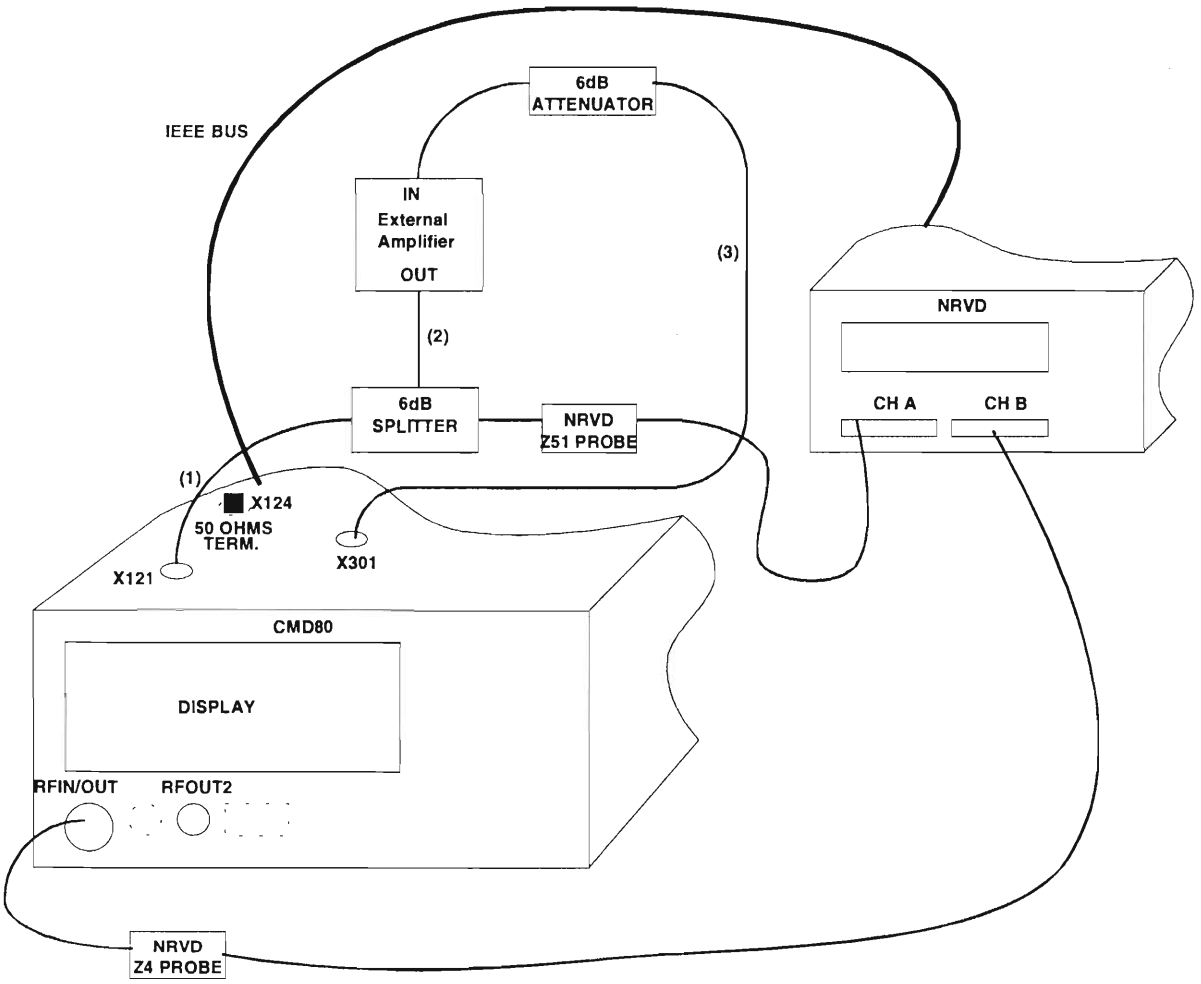
- Connect power sensor Z4 with N-SMC cable (1) to synthesizer output X301.

Step: Linearity Calibration Frontend RFIN/OUT Lower Range

Description: This test performs the measurement of the TX path from frontend (X121) to the connector RFIN/OUT. The attenuator combinations below 0 dB are measured.

Test arrangement drawing:

Linearity Calibration Frontend RFIN/OUT Lower Range



Attention: Do first switch off external amplifier DC supply before disconnecting the 6 dB splitter or any cable or the NRVD-Z51 probe. Otherwise the external amplifier will be damaged. Never apply DC supply if the external amplifier output is open.

Procedure:

First step:

- Connect power sensor Z4 directly to connector RFIN/OUT.
- Insert power sensor Z51 into slot A of NRVD.
- Connect power sensor Z51 directly to power splitter port 2.
- Connect power splitter port 1 with N-SMC cable (1) to frontend connector X121.
- Connect power splitter sum port with N-SMA cable (2) to external amplifier output.
- Caution: Do not yet apply DC supply or input power to the external amplifier.

Second step:

- Connect 6 dB attenuator to external amplifier input.
- Apply +15 V DC voltage to external amplifier.

Third step:

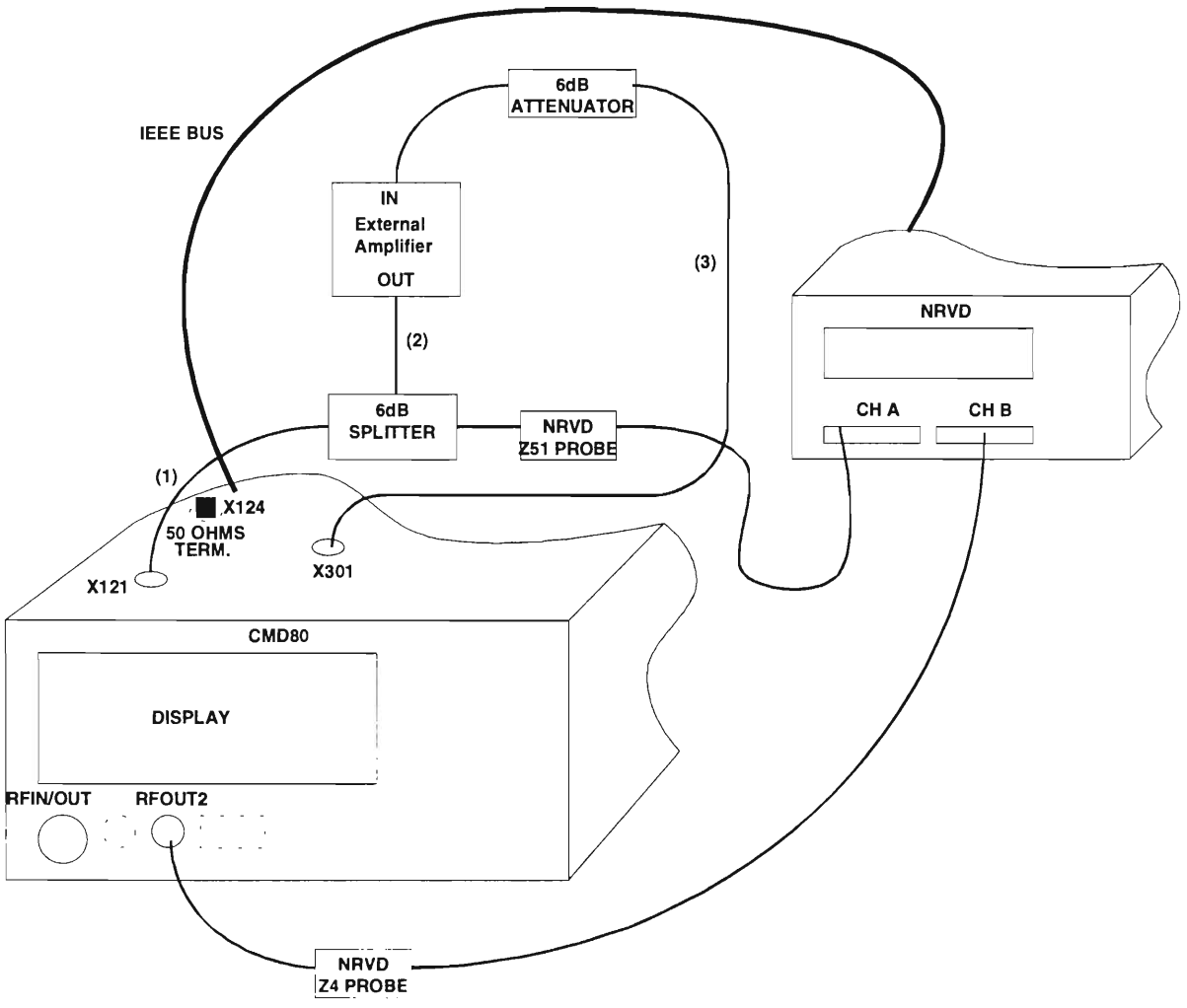
- Connect power amplifier input with SMA-SMC cable (3) to synthesizer connector X301.

Step: Linearity Calibration Frontend RFOUT2 Lower Range

Description: This test performs the measurement of the TX path from frontend (X121) to the connector RFOUT2. The attenuator combinations below 0 dB are measured.

Test arrangement drawing:

Linearity Calibration Frontend RFOUT2 Lower Range



Attention: Do first switch off external amplifier DC supply before disconnecting the 6 dB splitter or any cable or the NRVD-Z51 probe. Otherwise the external amplifier will be damaged. Never apply DC supply if the external amplifier output is open.

Procedure:

First step:

- Connect power sensor Z4 with BNC/N adapter to connector RFOUT2.
- Caution: Do not yet apply DC supply or input power to the external amplifier.

Second step:

- Connect 6 dB attenuator to external amplifier input.
- Apply +15 V DC voltage to external amplifier.

Third step:

- Connect power amplifier input with SMA-SMC cable (3) to synthesizer connector X301.

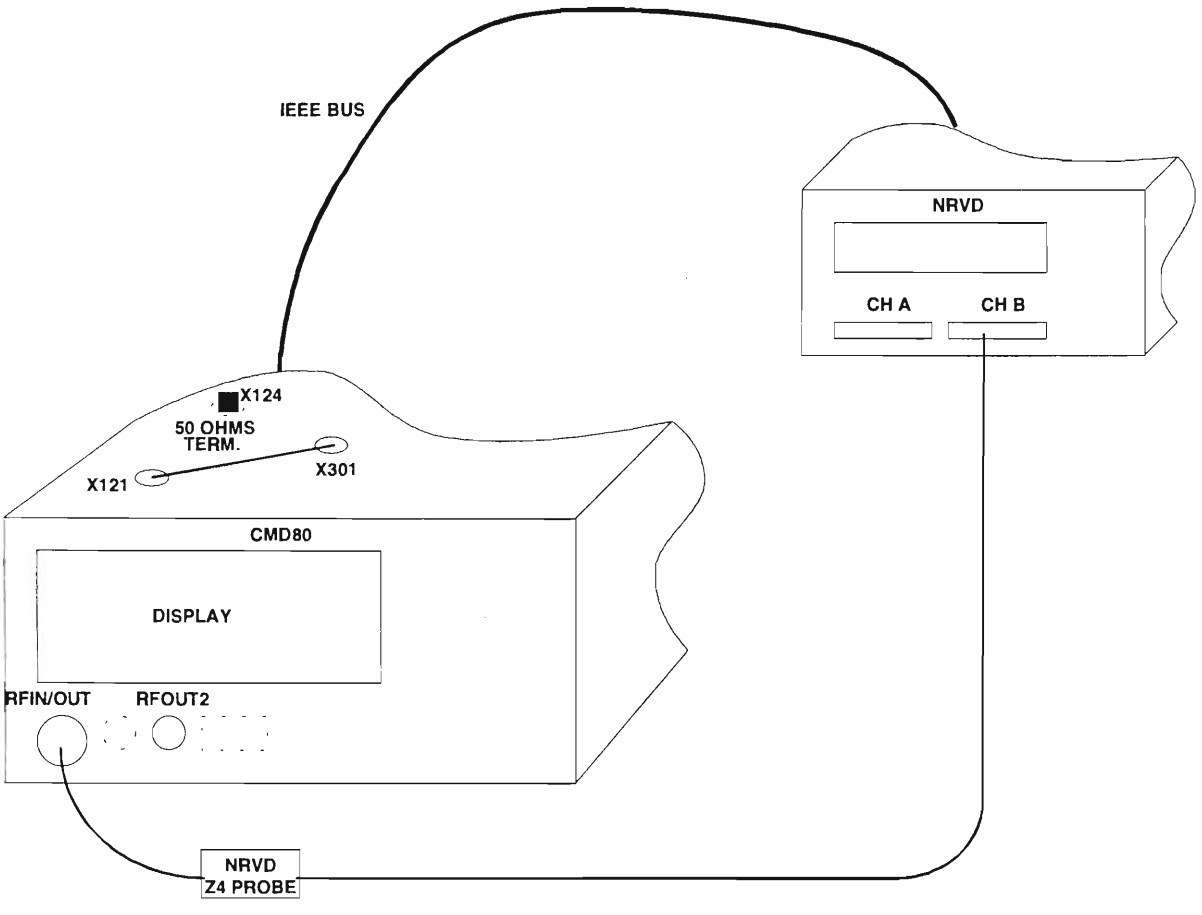
Step: Linearity Calibration Frontend RFIN/OUT Upper Range

Description: This test performs the measurement of the TX path from frontend (X121) to the connector RFIN/OUT. The attenuator combinations above 0 dB are measured.

Note: This test may called only if the linearity calibration of the synthesizer is done.

Test arrangement drawing:

Linearity Calibration Frontend RFIN/OUT Upper Range



Procedure:

- Connect synthesizer output X301 with its original cable to frontend input X121.
- Connect power Sensor Z4 directly to connector RFIN/OUT.

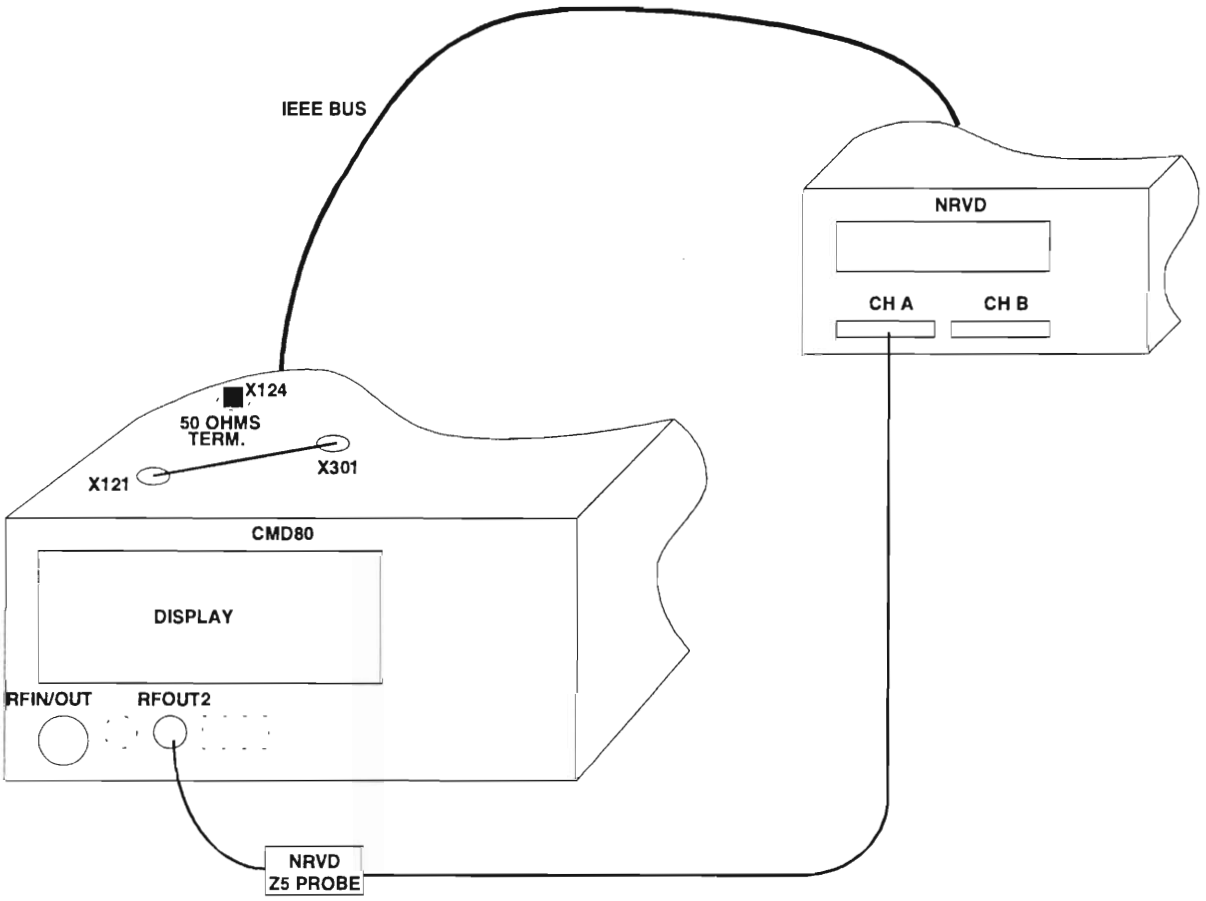
Step: Linearity Calibration Frontend RFOUT2 Upper Range

Description: This test performs the measurement of the TX path from frontend (X121) to the connector RFOUT2. The attenuator combinations above 0 dB are measured.

Note: This test may called only if the linearity calibration of the synthesizer is done.

Test arrangement drawing:

Linearity Calibration Frontend RFOUT2 Upper Range



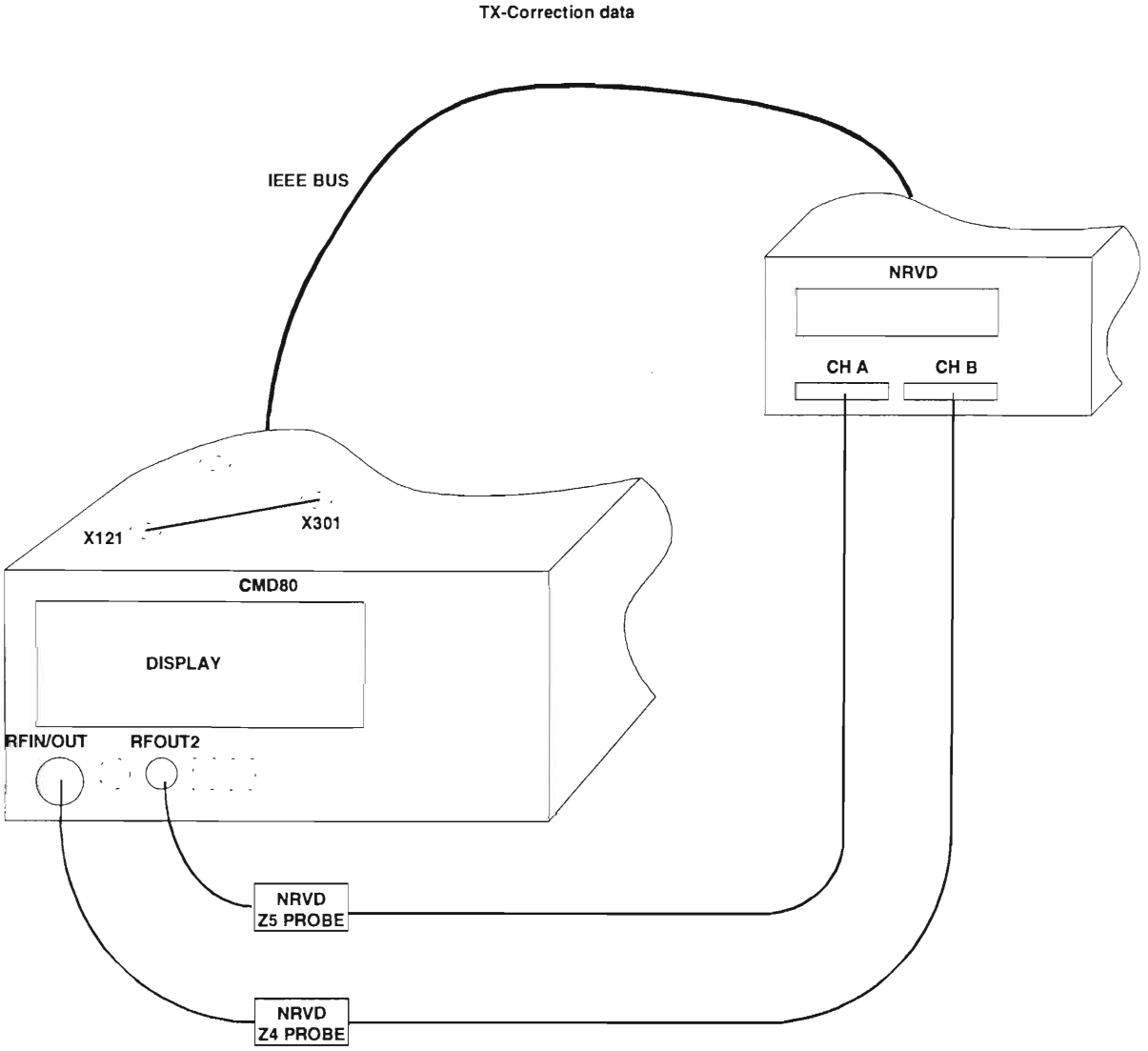
Procedure:

- Connect power sensor Z5 directly to connector RFOUT2.

Step: TX-Correction data

Description: This test performs an overall calibration for the TX path using CDMA signals from TEK linkhandler.

Test arrangement drawing:



Procedure:

- Remove the drilled top lid.
- Disconnect 50 OHMS terminator from X124.
- Connect original cable W5 to X124.
- Mount the original top lid.

Appendix B

Description of the single steps in Modcal (Control SW Batch CTRL.BAT)

Complete Batch CTRL.BAT with parameter "x" (Execute) is done by the automatic call of the following steps:

CTRL s1a Attenuator Calibration Synthesizer

- Copy fe_syn1.eep fe.eep
- Call CTRL for new special cal **SYNATT**
- Copy fe.eep fe.eep

CTRL fe Attenuator Calibration Frontend RfInOut and RfOut2

- Call CTRL for new special cal **FE**

CTRL wr Write module data to modules

- c70_hd -c h2e fe
- c70_hd -c h2e s1

CTRL s1l Linearity Calibration Synthesizer

- rename cmd\eeprom\txlincor.cal if file exist
- create empty s1l80.cal: echo. >c:\cmd\eeprom\s1l80.cal
- create empty fetxl80.cal: echo. >c:\cmd\eeprom\fetxl80.cal
- c70_ft -g
- correct -noread both
- Copy fe_syn1.eep fe.eep
- Call CTRL for new special cal **SYNLIN**
- Copy fe.eep fe.eep
- Combine to c:\cmd\eeprom\s1l80.cal

CTRL fel Linearity Calibration Frontend

- RfInOut Lower Range
- RfOut2 Lower Range
- RfInOut Upper Range
- RfOut2 Upper Range
- Call CTRL for new special cal **FELIN**
- Combine the four *.prn files to c:\cmd\eeprom\fetxl80.cal

CTRL iq Initialization of the Tek LH. This enables IQ signals and set LH level gain = 0 dB.

After the CMD user software is terminated, the CMD automatically will reboot to enable again the proper working of CTRL.

Initializes the Tek Linkhandler with original CMD80 User Software

Note: An Automatic Boot of the CMD will occur

Batch CTRL.BAT with parameter "xc" (Execute Overall TX Correction)

CTRL txcl Overall Tx correction data (CDMA/mode) RfInOut and RfOut2

- Call CTRL **TXCAL**

CTRL uf

- Update TX Flashproms: correct -noread tx

Batch CTRL.BAT - Additional Commands:

Note: These additional Commands are not performed during any "Execution", but can be called explicitly

CTRL i Installs MODCAL software. This is only a configuration of the CMD for MODCAL operation. Saves the current EEprom directory under c:\modcal\savedata\eeprom

Caution: The old saved EEprom data are overwritten

CTRL o Ignore all updated calibrated data.
Restore original files, which have been saved during the installation of MODCAL

- Restore original EEPROM files
- CAll: CTRL wr
- CAll: correct -noread both

CTRL r Removes MODCAL software. This is only a configuration for normal operation.

CTRL s Read and Save data.

Caution: This is only done once! Subsequent calls will not save again, if the Batch CTRL is called with parameter "x". If the Batch CTRL is called with parameter "s", the Read and Save is always performed.

- Read EEProm, call: correct both
- Save current data (EEPROM of module)

CTRL save Saves the current EEprom directory under c:\modcal\savedata\eeprom

Caution: The old saved EEprom data are overwritten

Appendix C

Additional Info to Modcal-SW-Enviroment

- The program CTRL and PTP can be quit fast by pressing "ALT X"
- DOS VAR: CTRLDEBUG [only for internal use]

  If it exist, the Debug mode with additional data displayed is enabled
- DOS VAR: CTRLREFFREQ [only for internal use]

  Sets the reference frequency for table FE93 (for example 1000 for 1000 MHz)

  This variable is set in c:\dos\ctrl.bat on the CMD. If it must be modified, edit ctrl.bat with the DOS editor Edit.
- DOS VAR: CTRLSTARTFREQ [only for internal use]

  Sets the start frequency for lo range linearity calibraton (for example 1800 for 1800 MHz)

ModCal Directory Structure

```
C:\MODCAL\DATA
   |       \CTRL
   |       \GPIB
   |       \SAVEDATA\EEPROM
```

Appendix D

List of Materials for CMD80-Modcal-Calibration

Pos.	Item	Description	R&S stocknumber	count
1	NRVD	Powermeter	0857.8008.02	1
2	NRV-Z51	Thermal power sensor	0857.9004.02	1
3	NRV-Z4	High sensivity sensor	0828.3618.02	1
3	NRV-Z5	Medium sensivity sensor	0828.3818.02	1
4	RVZ	Power splitter	0800.6612.52	1
5	BNC-N adaptor	BNC-male ... N-female connectors for RFOUT2 This is delivered as a part of CMD-Z8	0541.8030	1
6	N-N adaptor	N-female ... N.female connector for cable1 to Z4 This is delivered as a part of CMD-Z8	0092.6700	1
7	ZHL-42W	Mini circuits amplifier This is delivered as a part of CMD-Z8		1
8	6dB SMA-pad	This is delivered as a part of CMD-Z8		1
9	cable 1	N-SMC cable, 16cm long VSWR <=1.12 until 2.2GHz This is delivered as a part of CMD-Z8		2
10	cable 2	SMA-N cable, 30cm long VSWR <=1.12 until 2.2GHz This is delivered as a part of CMD-Z8		1
11	cable 3	SMC-SMA cable, 20cm long VSWR <=1.12 until 2.2GHz This is delivered as a part of CMD-Z8		1
12	SMC-TERM.	50Ω SMC-Terminator This is delivered as a part of CMD-Z8	0355.2195	1
13	LID	Top lid with holes at X121 and X301 see Appendix B Fig.1 This is delivered as a part of CMD-Z8		1
14	CMD80 Service Software Version >= 2.5	CMD80 Service Software as shipped from factory		1
15	Tek User Software Version >= 2.05B	CMD80 User Software from Tektronix		1

List of Materials for cable 1, 2, 3

cable-nr.	connector	R&S-stocknr.	connector	R&S-stocknr.	cable	R&S-stocknr.
1	N-male	0529.2270	SMC-fem.	0070.0168	50Ω	0069.1587
2	SMA-male	0339.8828	N-male	0529.2270	50Ω	0069.1587
3	SMC-fem.	0070.0168	SMA-male	0339.8828	50Ω	0069.1587

For a better grip of the SMC connector, a turning part is neccessary. For details see Fig. 2.

Drill Plan for Lid

FIGURE 1
DRILL PLAN

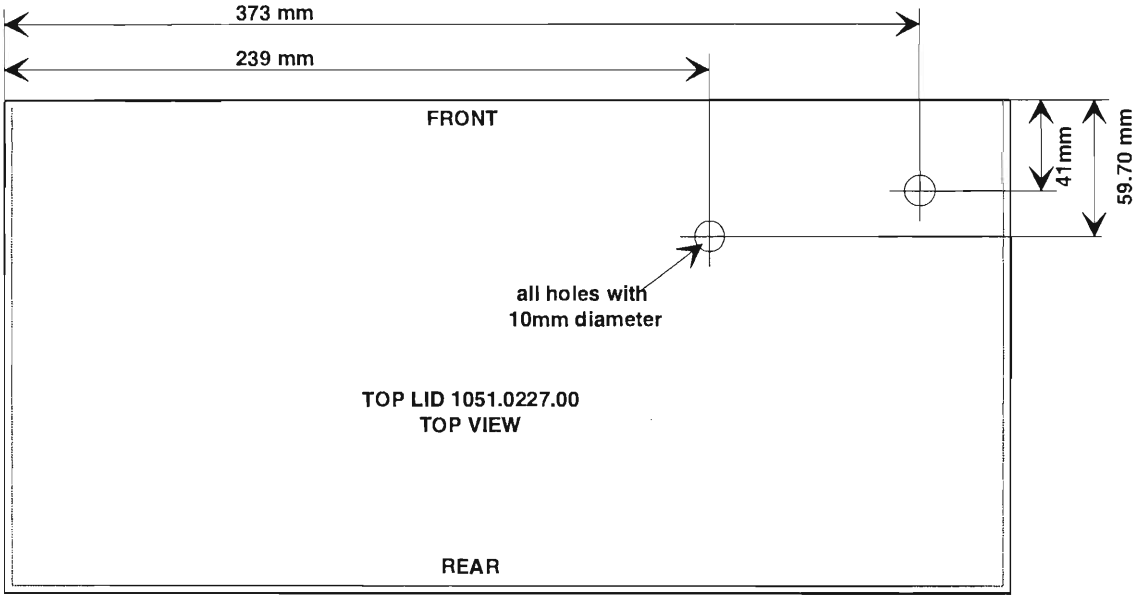
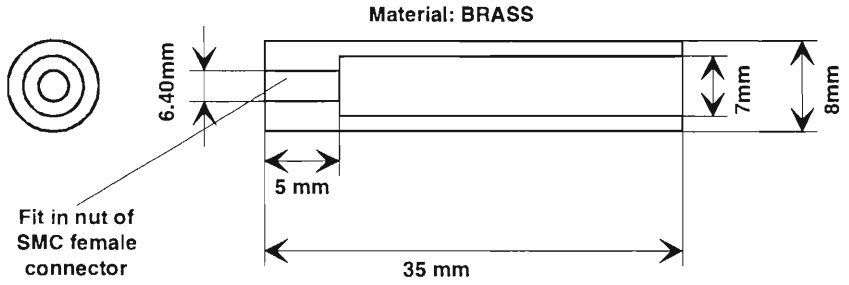
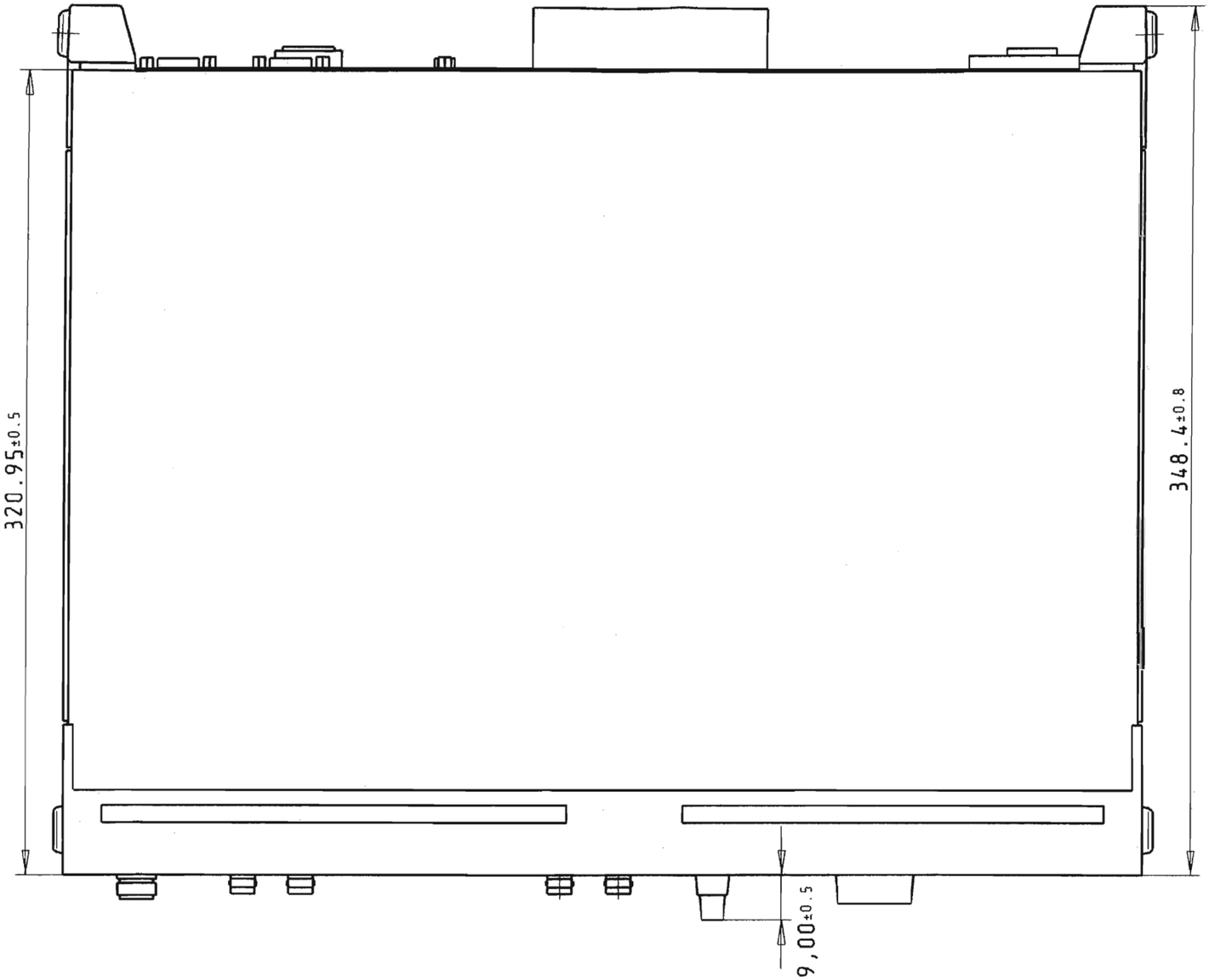


FIGURE 2
TURNING PART



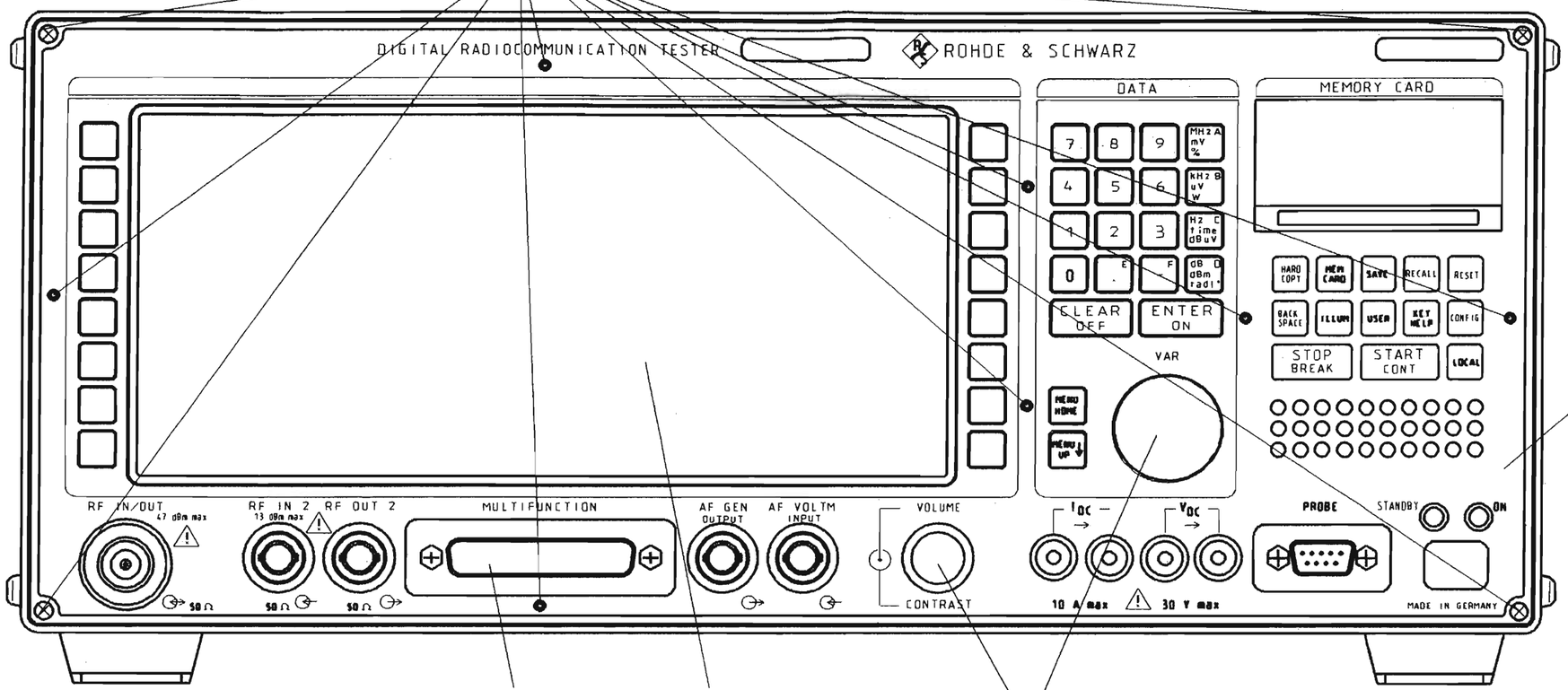


					Masze ohne Toleranzangabe			Maszstab 1:2			
								Werkstoff			
		. .			1CMK	Datum	Name	Benennung REMOVAL AND ASSEMBLY			
		. .			Bearb.	11.07.96	bi				
		. .			Gepr.	. .					
					Norm						
					Plot	07.10.96					
					ROHDE&SCHWARZ			Zeichn.-Nr. 1050.9008.80			Blatt-Nr. 01 Bl.
Zust.	Mitteilung	Datum	Name	zu Geraet CMD				reg.i.V. . .		erste Z. . .	

ISO-Projektion Methode E

R&S

6.7.9
screws to remove membrane keyboard

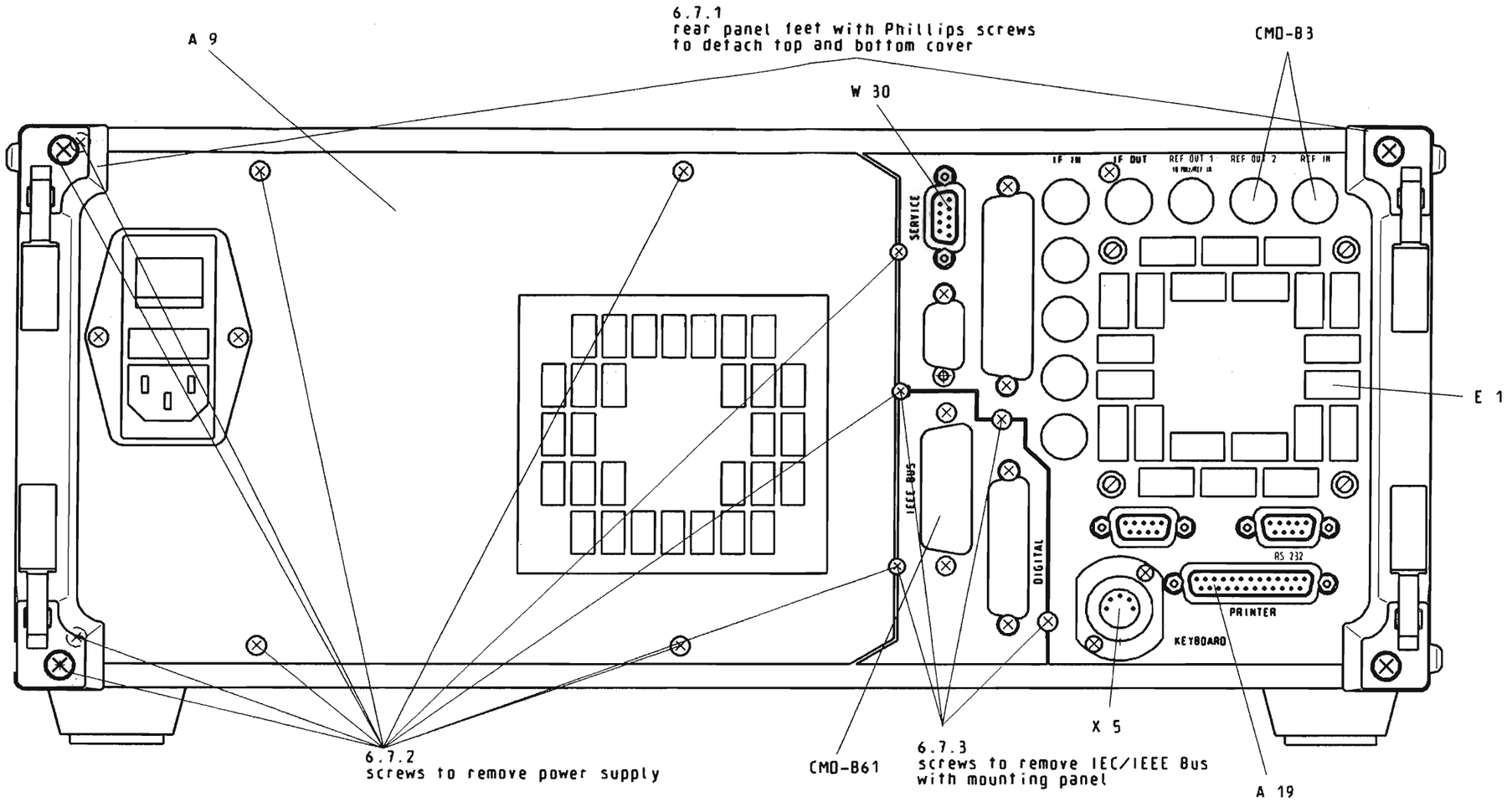


6.7.9
knops to remove membrane keyboard

				Masze ohne Toleranzangabe			Maszstab	1:1.5	
							Werkstoff	. .	
		. .		1CMK	Datum	Name	Benennung	REMOVAL AND ASSEMBLY	
		. .		Bearb.	11.07.96	bi			
		. .		Gepr.	. .				
				Norm					
				Plot	07.10.96				
				ROHDE&SCHWARZ			Zeichn.-Nr.	1050.9008.80	Blatt-Nr. 02 Bl.
Zust.	Mitteilung	Datum	Name	zu Geraet CMD			reg.i.V. . .	erste Z. . .	

SO-... Iektion
Methode E

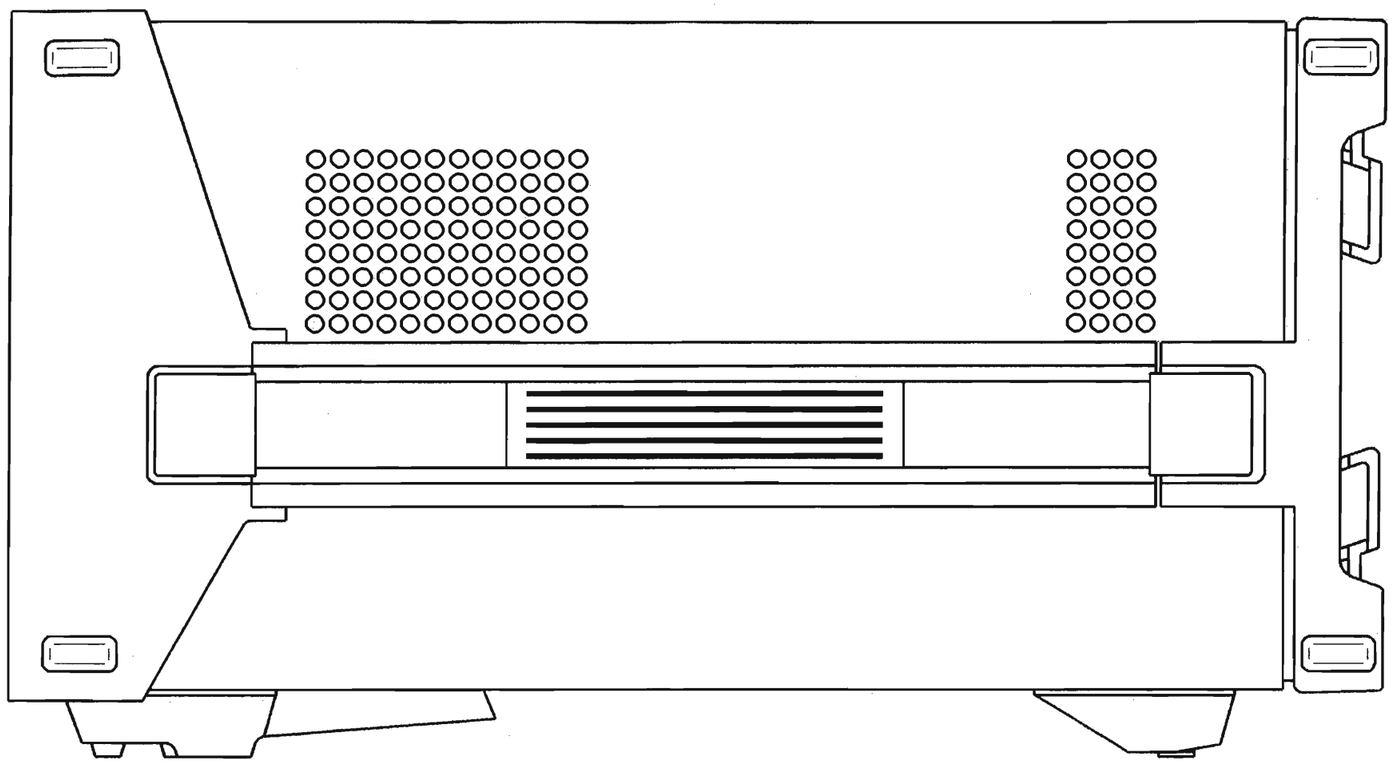
R&S



				Masze ohne Toleranzangabe			Maszstab 1:1.5		
							Werkstoff . .		
		. .		1CMK	Datum	Name	Benennung		
		. .		Bearb.	11.07.96	Di	REMOVAL AND ASSEMBLY		
		. .		Gepr.	. .				
				Norm					
				Ptot	07.10.96				
				ROHDE&SCHWARZ			Zeichn.-Nr. 1050.9008.80	Blatt-Nr. 03	Bl.
Zust.	Mitteilung	Datum	Name	zu Gerael CMD			reg.i.V. . .	erste Z. . .	

ISO-Projektion
Methode E

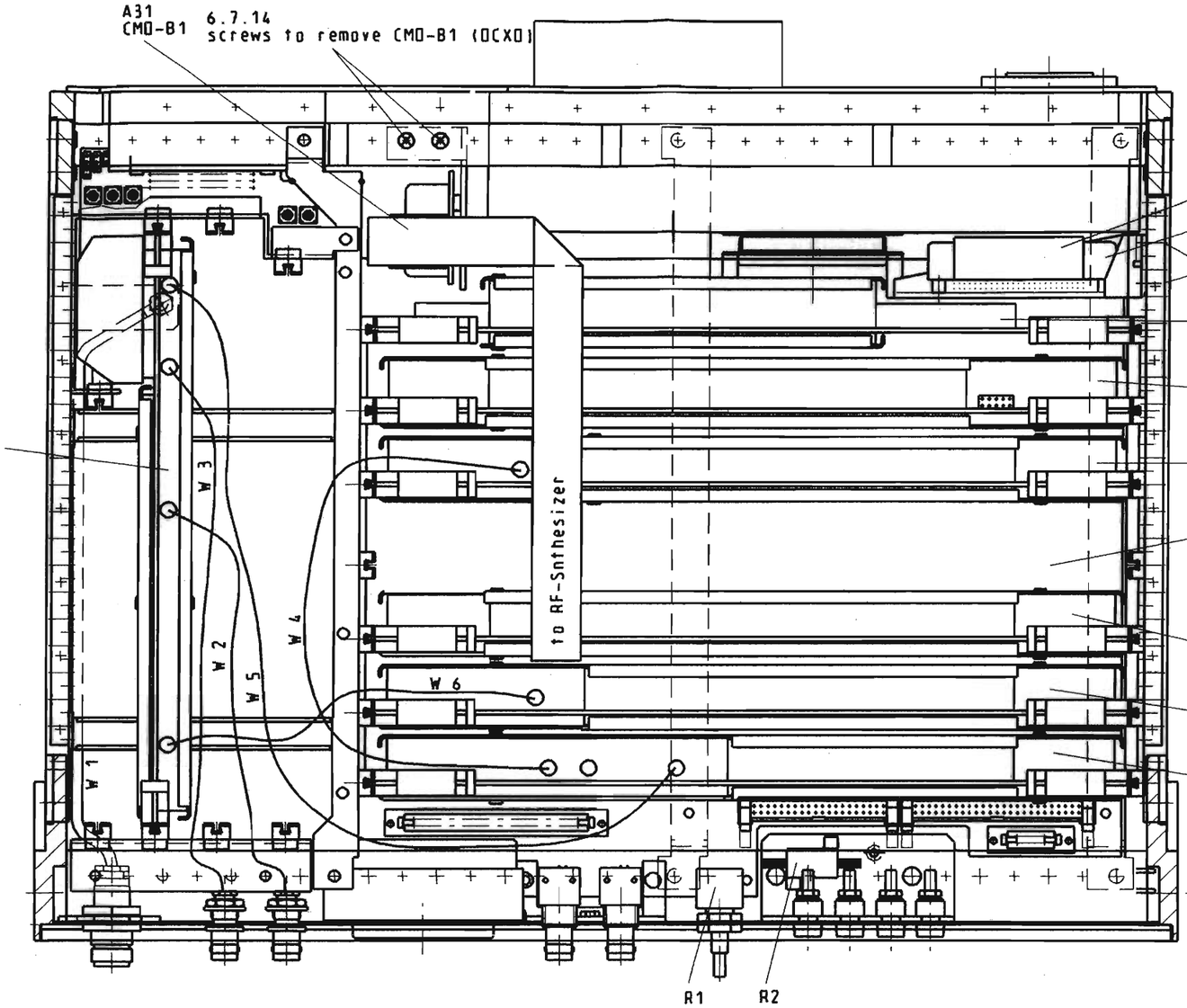
R&S



									Masze ohne Toleranzangabe		Maszstab 1:1.5
											Werkstoff
								1CMK	Datum	Name	Benennung REMOVAL AND ASSEMBLY
								Bearb.	11.07.96	bi	
								Gepr.			
								Norm			
								Plot	07.10.96		
								ROHDE&SCHWARZ			Zeichn.-Nr. 1050.9008.80 / Blatt-Nr. 04 Bl.
Zust.	Mitteilung		Datum	Name				zu Geraet CMD			reg.i.V. / erste Z.

ISO-Projektion
Methode E

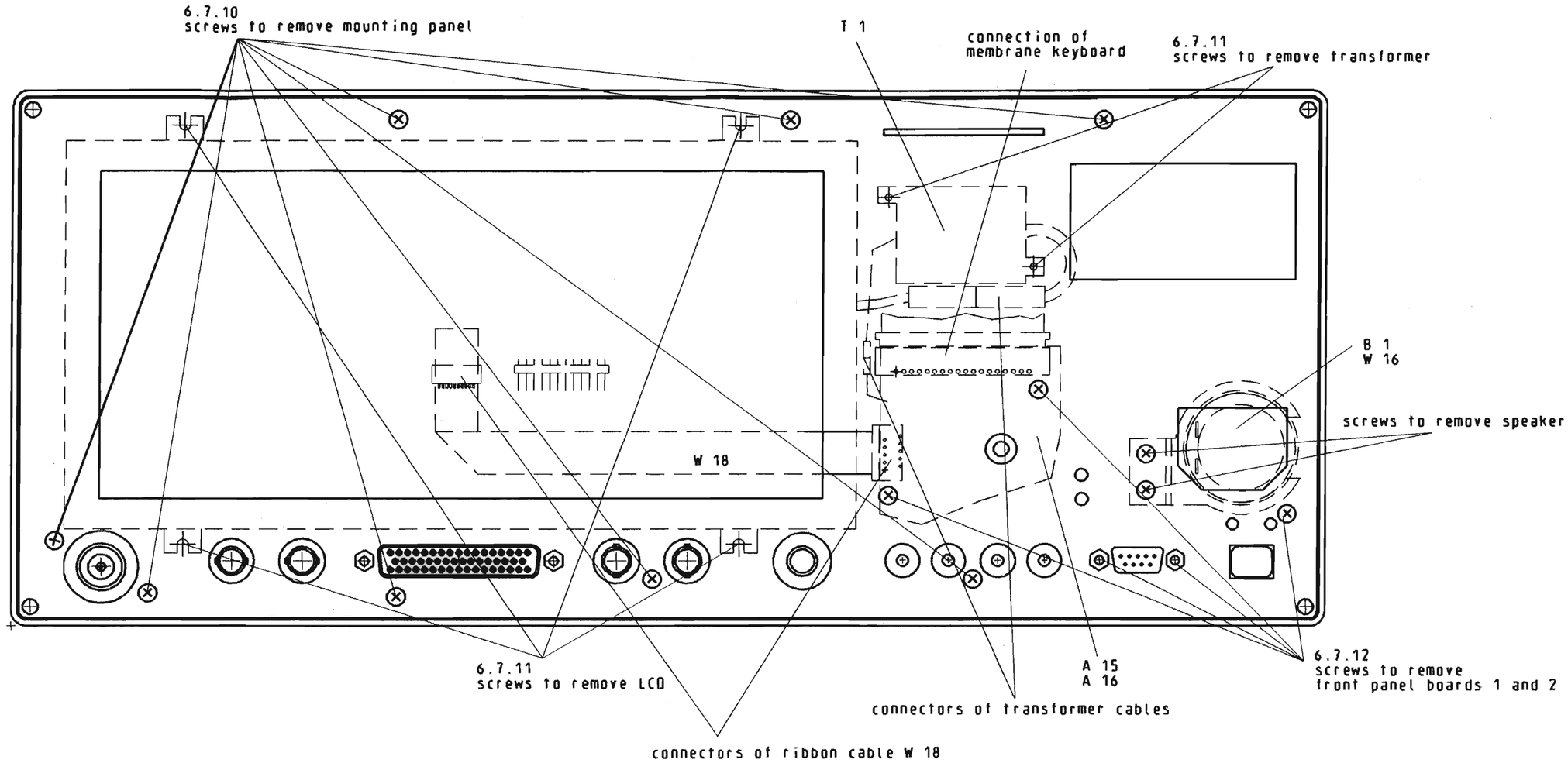
R&S



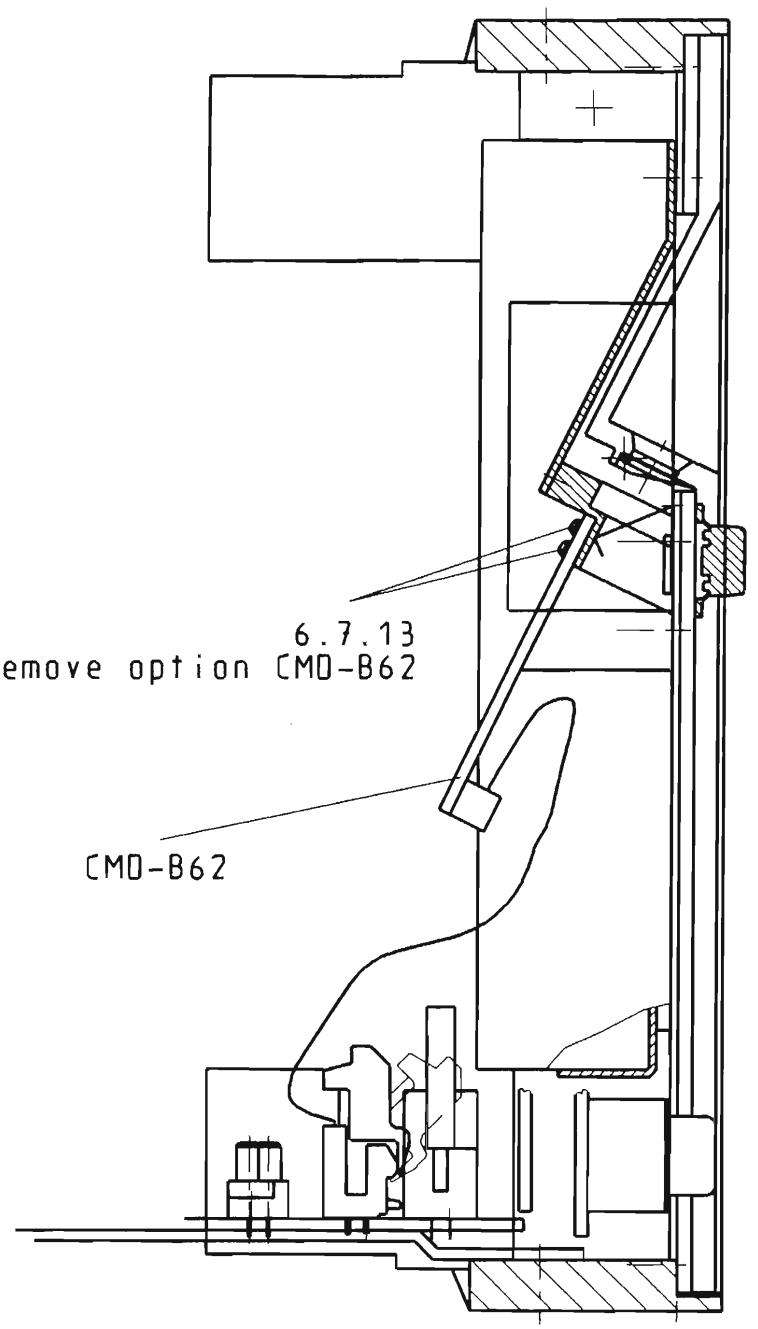
					Masze ohne Toleranzangabe		Maszstab	1:2
							Werkstoff	
				1CMK	Datum	Name	Benennung	REMOVAL AND ASSEMBLY
				Bearb.	11.07.96	bi		
				Gepr.				
				Norm				
				Plot	07.10.96			
				ROHDE&SCHWARZ			Zeichn.-Nr.	1050.9008.80
Zust.	Mitteilung	Datum	Name	zu Geraet CMD			reg.i.V.	erste Z.

Projektion Methode E

R&S

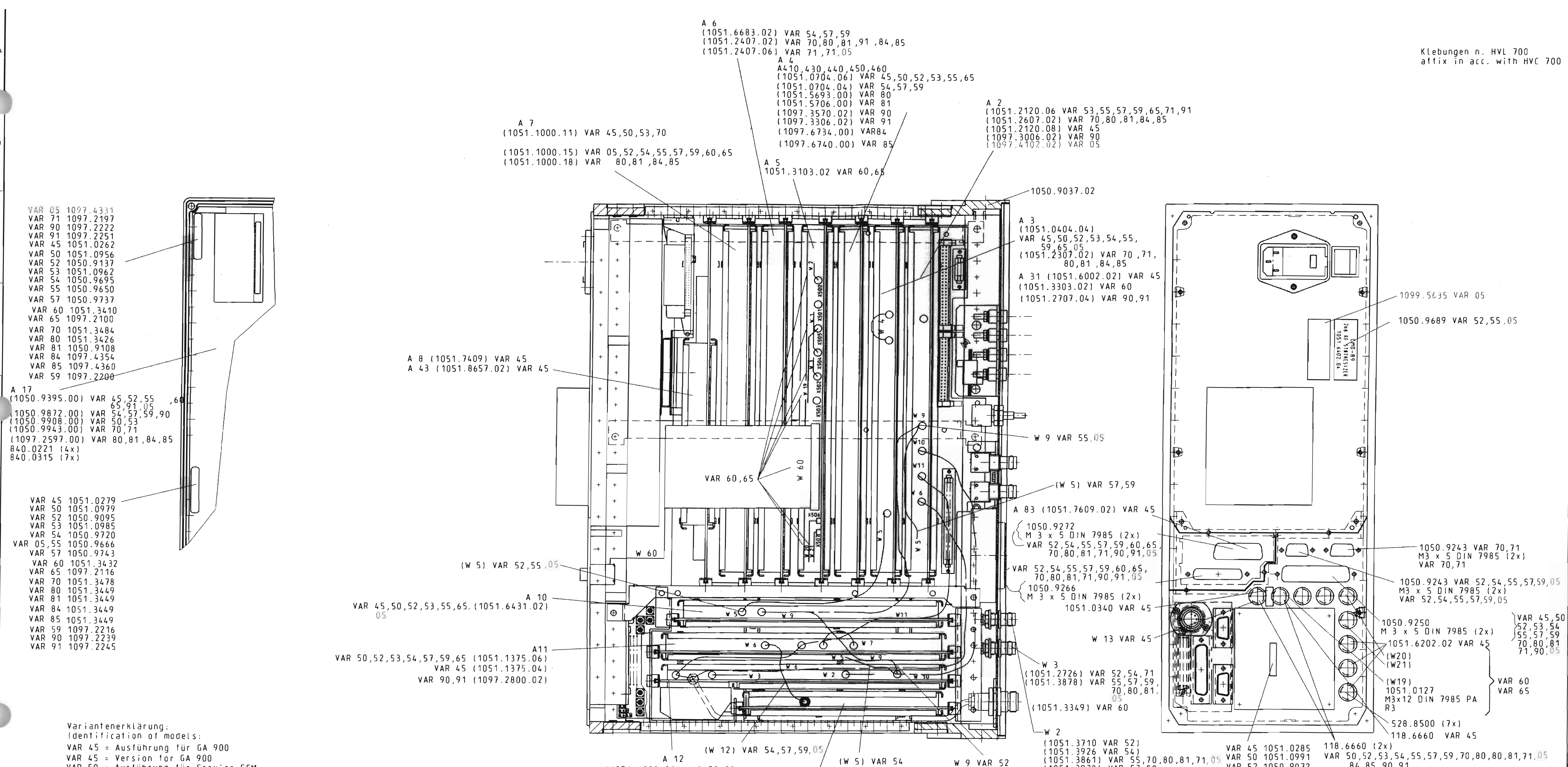


				Masze ohne Toleranzangabe			Maszstab 1:1.5	
							Werkstatt . .	
		. .		1CMK	Datum	Name	Benennung REMOVAL AND ASSEMBLY	
		. .		Bearb.	11.07.96	bi		
		. .		Gepr.	. .			
				Norm				
				Plot	07.10.96			
				ROHDE&SCHWARZ			Zeichn.-Nr. 1050.9008.80	Blatt-Nr. 06 Bl.
Zust.	Mitteilung	Datum	Name	zu Geraet CMD			reg.i.V. . .	erste Z. . .



Masze ohne Toleranzangabe		Maszstab 1:2	
		Werkstoff	
1CMK	Datum	Name	Benennung
Bearb.	11.07.96	bi	REMOVAL AND ASSEMBLY
Gepr.			
Norm			
Plot	07.10.96		
ROHDE&SCHWARZ			Zeichn.-Nr. 1050.9008.80 / Blatt-Nr. 07 Bl.
Zust. / Mitteilung / Datum / Name	zu Gerae! CMD	reg.i.V.	erste Z.

R&S



Panel/Beplankung 1050.9550 VAR 45,50,52,53,54,55,57,59,05
Panel/Beplankung 1051.0233 VAR 60,65,70,80,81,71,90,91,84,85
Accessory/Zubehör 1050.9608 VAR 45,50,52,53,54,55,57,59,60,65,05
Accessory/Zubehör 1050.9995 VAR 70
Accessory/Zubehör 1050.9114 VAR 80
Accessory/Zubehör 1050.9120 VAR 81
Accessory/Zubehör 1097.4460 VAR 71
} nicht dargestellt / not shown

Zulassungsschild 840.0067 an geeigneter Stelle auf der Frontplatte angebracht
Certification label 840.0067 provided in suitable location on frontpanel

Variantenerklärung:
Identification of models:

VAR 45 = Ausführung für GA 900
VAR 45 = Version for GA 900
VAR 50 = Ausführung für Service GSM
VAR 50 = Version for service GSM
VAR 52 = Grundaufführung
VAR 52 = Basic model
VAR 53 = Ausführung für Service GSM/PCN
VAR 53 = Version for service GSM/PCN
VAR 54 = Ausführung für GSM-BS-Test
VAR 54 = Version for GSM-BS-Test
VAR 55 = Ausführung für PCN
VAR 55 = Version for PCN
VAR 57 = Ausführung für PCN (DCS 1800)
VAR 57 = Version for PCN (DCS 1800)
VAR 59 = Ausführung für DCS 1900 (BTS)
VAR 59 = Version for DCS 1900 (BTS)
VAR 60 = Ausführung für DECT
VAR 60 = Version for DECT
VAR 65 = Ausführung für GSM,DECT,DCS 1800
VAR 65 = Version for GSM,DECT,DCS 1800
VAR 70 = Ausführung für PDC + PHP
VAR 70 = Version for PDC + PHP
VAR 71 = Ausführung für PDC+PHS
VAR 71 = Version for PDC+PHS
VAR 80 = Ausführung für CDMA
VAR 80 = Version for CDMA
VAR 81 = Ausführung für CDMA (Tektronix)
VAR 81 = Version for CDMA (Tektronix)
VAR 84= Ausführung mit Speichererweiterung
VAR 84= Model for CDMA with extended memory
VAR 85= Ausführung mit Speichererweiterung(spez.VAR)
VAR 85= Model for CDMA with Ext. memory (spec.vers.)
VAR 90 = Ausführung für TETRA
VAR 90 = Version for TETRA
VAR 91 = Ausführung für TETRA (System)
VAR 91 = Version for TETRA (System)
VAR 05 = Ausführung für GSM/DCS HANDOVER
VAR 05 = VERSION for GSM/DCS HANDOVER

hierzu Kabelsätze: / Cable sets for above models:

1051.3703 VAR 50,52 for cabling to/entspricht Verkabelung mit ———
1051.3910 VAR 54 for cabling to/entspricht Verkabelung mit ———
1051.3810 VAR 45,53,55,05 for additional cabling to/entspricht zusätzlicher Verkabelung mit — — — —
1051.3961 VAR 57,59 for additional cabling to/entspricht zusätzlicher Verkabelung mit — — — —
1051.3884 VAR 60
1051.2965 VAR 60,65
1059.8040 VAR 65
1051.8185 VAR 65
1051.3590 VAR 70,71
1097.2616 VAR 80,81,84,85
1097.2468 VAR 90
1097.2351 VAR 91

Schild 1050.9689 auf Netzteil geklebt
Optionsschild 1051.6577 verschrottet
Label 1050.9689 affixed to power supply
Option label 1051.6577 discarded

Verkabelung für VAR 65
nach Stromlauf Bl. 6 + 7
Cabling for VAR 65
in acc. with sheets 6 + 7
of circuit diagramm

Verbindungsliste VAR 70,80,81,71
Wiring table for VAR 70,80,81,71

Kabel Cable	von from	nach to
W2	Frontplatte Front panel RF OUT 2	A 12/X123
W3	Frontplatte Front panel RF IN 2	A 12/X122
W4	A 2/X201	A 12/X124
W5	A 2/X203	A 6/X601
W6	A 3/X301	A 12/X121

Maßstab 1:1,5

27	04.10.97	
28	02.03.98	
29	26.03.98	

Bearb. 26.03.98
Gepr. 26.03.98

GG CMD DIG.RADIO TESTER

ROHDE&SCHWARZ

1050.9008.01

zu Gerät CMD 1050.9008 — 1050.9008.01

Klebungen nach HVL 700
HVO 001 beachten
Affix in acc. with HVL 700
observe HVO 001

1050.9495 Z
VS 071.6847 (2x)
M 2.5 x 6 DIN 965 (2x)

1050.9466
M 2.5 x 8 DIN 965 (4x)

A 100
VS 071.6853 (16x)
(1051.9750.08) VAR 45,50,52,53,54,55,57,59,60,05
(1051.2220.02) VAR 70,80,81,84,85,71,90,91

1050.9366
VS 071.6830 (2x)

A 15
FM 624.1183 (2x)

A 16
M 3 x 25 DIN 965 (3x)

1050.9420 Z
M 3 x 10 DIN 965 (6x)

1036.4360

1050.9508
M 2 x 5 DIN 965 (16x)

A 1
M 2.5 x 10 DIN 7985 (4x)
2.6 DIN 137 (4x)
2.7 DIN 9021 (4x)

B1
M 3 x 10 DIN 965 (2x)
Anschlüße flach gedrückt

D 1
1065.9396.00 zw.
Laufwerk und Haltewinkel
geklebt
M3x5 DIN 965 (4 St.)

1051.0291 Z
M3 x 12 DIN 7985 (3x)

1050.9150 Z
M 3 x 10 DIN 965 (2x)

1050.9166 Z
M 3 x 8 DIN 965

1050.9172

396.7233
sw* black* | ge* yellow* | gn* green* | bl* blue* | rt* red* | gr* grey* | sw* black*

1050.9143
VS 085.3000 (6x)
M 3 x 8 DIN 965 (6x)

396.7656

W 9
an dieser Stelle mit
DZ 209.4852 zugentlastet

Z3 (oben)
Z4

1050.9443 Z
M 3 x 8 DIN 965 (2x)

MB 088.6797
852.3608

X 4
X 3
X 2
X 1
1050.9514 (4 St.)
VS 016.2866 (4 St.)
1097.4325

R 2
M 2 x 8 DIN 7985 (2x)
2 DIN 137 (2x)
M 2 DIN 934 (2x)

Z1 (oben)
Z2

1097.2345
852.3608

R 1
VS 016.5142
W 15 A

M 3 x 6 DIN 965
1050.9308 Z VAR 45,52,54,55,57,59,
60,65,05
1051.0304 Z VAR 50,53
1051.0210 Z VAR 70,80,81
,84,85,71,90,91

VS 0071.6830 (5x)

396.7710

396.7656
M 3X8 DIN 965 (2ST.)

1050.9143
M 3x8 DIN 965 (6x)

1050.9189 Z
M 3 x 8 DIN 965 (4x)

X5
1050.9337
M 2.5 x 12 DIN 965 (2x)

1051.0140
M 3x8 DIN 965 (4x)

396.7379 (2x)
396.7227 (2x)
M 3 x 6 DIN 965 (4x)

396.7385 (2x)
396.7227 (2x)
M 3 x 6 DIN 965 (4x)

298.1477
2 Teile zu 10 mm

396.7404 (2x)
396.7227 (2x)
M 3 x 6 DIN 965 (4x)

VAR 45,50,52,53,54,55,57,59,65,70,80,81,84,85 ,71,90,91,05

K1 VAR 65
M 2x16 DIN 965 (2x) VAR 65

T 1
M 2 x 4 DIN 7985 (2x)
2 DIN 137
627.2116
als Zugentlastung f.
Tastaturkabel
strain relief for
keybord cable

071.5563

W 18

852.1005
078.2330

396.3150 (4x)
M 3 x6 DIN 965 (4x)

W 14

Steg bis Zwischenwand entfernen
Remove spacer from position

WT 0001.9447 (110 mm)
VAR 60,65 2x

W 8
1015.0737
099.7783 (2 St.)
VAR 45,52,54,57,59,60,65,70,80,81,84,85,71,90,91

M 3x10 DIN 7985 (2x)

396.7362 (2x) VAR 52,54,55,57,59,65,70,80,81,71,90,91 05,84,85
M3 x 6 DIN 965 (4x) VAR 52,54,55,57,59,65,70,80,81,71,90,91 05

396.1728

1050.9214 VAR 45,50,52,54,55,57,59,65,70,80,81,84,85 ,71,90,91 ,05
M 3 x 10 DIN 7985 (5x) VAR 45,50,52,54,55,57,59,65,70,80,81,84,85 ,71,90,91,05
M 3 x 8 DIN 965 VAR 45,50,52,54,55,57,59,65,70,80,81,84,85,71,90,91 ,05

W 1
(1051.3510) VAR 45,50,52,53,54,55,57,59,70,80,81 ,84,85,71,90,91 ,05
(1051.3361) VAR 60
M 2.5 x 10 DIN 965 (2x)

hierzu Kabelsatz: 1051.3649
Cable set for above models: 1051.3649

* Farbpunkte als Kodierung auf Führungsleisten aufgebracht
* Coloured coding points on guide rails

A 9
VS 071.6847 (8x)

396.3167 (5x)
M 3 x 10 DIN 965 (5x)

1050.9350
M 3 x 12 DIN 965 (3x)

W 30 VAR 70,71,80,81,90,91,84,85
FM 624.1183 (2x) VAR 70,71,80,81
,84,85 90,91

W 43 VAR 91

1050.9289 Z VAR 45,50,52,53
54,55,57,59 ,05

1051.0204 Z VAR 70,71,80,81,90,91
,84,85

1051.0056 Z VAR 60,65
VS 071.6847 (3x)

(W 61) VAR 60,65 □
(W 62) VAR 60,65 □
(W 63) VAR 60,65 □

E 1
M3x8 DIN 7985 (4x)
3.2 DIN 9021 (4x)

W 41 VAR 91

1065.9367.00

A 19
FM 624.1183 (4x)

□ enthalten in 1051.2965
inclued in 1051.2965

Dichtschnureinlage nach 396.1841 Bl 2
Sealing cord inserted to 396.1841 sheet 2

Maßstab			
Benennung	GG CMD DIG.RADIO TESTER		
Zeichn.-Nr.	1050.9008.01		
ROHDE&SCHWARZ			

ROHDE&SCHWARZ

Schaltteillisten
Stromläufe
Bestückungspläne

Part lists
Circuit diagrams
Component plans

Listes des pièces détachées
Schémas de circuit
Plans des composants

095.1000 Bl. 2

ROHDE&SCHWARZ

R&S-Schlüsselliste
R&S key list
Liste des symboles de référence R&S

Die R&S-Schaltteillisten nennen in der Spalte "Benennung/Beschreibung" die technischen Daten der Bauelemente in Kurzform. Die Art des Bauelements (z.B. Schicht-, Draht-Widerstand usw.) beschreiben die 2 Kennbuchstaben vor der "Benennung" (evtl. auch vor der "Sachnummer"), die nachfolgend erklärt werden. In Ersatzteil-Bestellungen an R&S ist stets die Angabe der vollständigen Sachnummer erforderlich.

The R&S Parts Lists give the technical data of the components in short form in the column "Benennung/Beschreibung" (designation). The type of component (e.g. depos.-carbon resistor, wire-wound resistor etc.) is indicated by 2 identification letters before the designation, possibly also before the "Sachnummer" (order number), which are explained below. When ordering spare parts from R&S, the complete order number must always be specified.

La colonne «Désignation/description» des listes de pièces de R&S indique les caractéristiques des éléments sous forme abrégée. Le type d'élément (p. ex. résistance à couche, résistance bobinée etc. ...) est décrit par les deux lettres précédant la désignation (et éventuellement le numéro de référence), dont voici l'explication. Prière d'indiquer le numéro de référence («Sachnummer») complet dans toute commande de pièces de rechange.

Teile-familie	Art des Bauelementes	Parts family	Type of component	Famille	Type d'élément
A	**Aktive Bauelemente, Halbleiter**	**A**	**Active components, semiconductors**	**A**	**Composants actifs, semiconducteurs**
AD	Universaldiode, z.B. Gleichrichter, Sperrdiode	AD	General-purpose diode, e.g. rectifier, high-resistance diode	AD	Diode d'usage général, p.ex. redresseur, diode à haute résistance
AE	Spezialdiode, z.B. Tunnel-, Kapazitäts-, Zener-Diode	AE	Diode (special), e.g. tunnel diode, varactor, Zener diode	AE	Diode spéciale, p.ex. diode tunnel, varactor, diode Zener
AF	Fotohalbleiter, z.B. Foto-Diode, -Transistor, -Widerstand, Leuchtdiode	AF	Photo-semiconductor, e.g. resistor, diode, transistor; LED	AF	Semiconducteur photoélectrique, p.ex. diode, transistor, résistance photoél., DEL
AG	Leistungs-Gleichrichter, z.B. Thyristor, Triac, Selengleichrichter	AG	Power rectifier, e.g. thyristor, triac, selenium rectifier	AG	Redresseur de puissance, p.ex. thyristor, triac, redresseur, au sélénium
AK	Kleinsignal-Transistor	AK	Small-signal transistor	AK	Transistor faible puissance
AL	Leistungs-Transistor	AL	High-power transistor	AL	Transistor grande puissance
AM	Spezial-Transistor, z.B. FET, MOSFET	AM	Transistor (special), e.g. FET, MOS-FET	AM	Transistor spécial, p.ex. TEC, MOSTEC
AP	Peltier-, Hall-Element	AP	Peltier element, Hall element	AP	Element Peltier, élément Hall
AR	Röhre für Empfänger, Verstärker, Gleichrichter	AR	Valve for receiver, amplifier, rectifier	AR	Tube pour récepteur, amplificateur, redresseur
AS	Spezialröhre, z.B. Senderöhre, EW-Widerstand, Stabilisator	AS	Valve (special), e.g. for transmitter, baretter, ballast valve	AS	Tube (spécial), p.ex. pour émetteur, résistance fer-hydrogène, ballast
AT	Katodenstrahlröhre, z.B. Bildröhre, Ziffern-Anzeigeröhre	AT	Cathode ray tube, e.g. picture tube, digital indicator tube	AT	Tube à rayon cathodique, p.ex. tube à image, tube à affichage numérique
AZ	Zubehör für Halbleiter u. Röhren	AZ	Accessories for semiconductors and valves	AZ	Accessoires pour semiconducteurs et tubes
B	**Bausteine**	**B**	**PC boards, chips**	**B**	**Cartes imprimées, puces**
BC	Integr. Schaltkreis (Microcomp.)	BC	Integrated circuit (interface, A/D)	BC	Circuit intégré (microprocesseur)
BD	R&S-Dünnschicht- und Dickschichtschaltung	BD	R&S thinfilm or thickfilm circuit	BD	Circuit R&S à couche mince ou épaisse
BG	R&S-spezifische Gate-Arrays	BG	R&S gate arrays	BG	Circuits intégrés prédiffusés R&S
BJ	Integrierter Schaltkreis (Interface, A/D-Wandler)	BJ	Integrated circuit (interface, A/D converter)	BJ	Circuit intégré (interface, convertisseur A/N)
BL	Log. Schaltkreis z.B. DTL, TTL, HTL, ECL, C-MOS	BL	Logic circuit, e.g. DTL, TTL, HTL, ECL, C-MOS	BL	Circuit logique, p.ex. DTL, TTL, HTL, ECL, C-MOS
BM	Hybridbaustein, z.B. Mischer, Tuner, Modulator	BM	Hybrid chip, e.g. mixer, tuner, modulator	BM	Puce hybride, p.ex. mélangeur, tuner, modulateur
BO	Analogschaltkreis, z.B. Operationsverstärker	BO	Analog circuit, e.g. operational amplifier	BO	Circuit analogique, p.ex. amplificateur opérationnel
BP	Optoelektronischer Baustein, z.B. Anzeigeeinheit, Koppler	BP	Optoelectronic component, e.g. display, coupler	BP	Composant optoélectronique, p.ex afficheur, coupleur
BS	Schalt- und Steuerbaustein, elektronischer Sensor	BS	Switching and control modul, electronic sensor	BS	Modul de commutation et de commande, sonde électronique
BV	Stromversorgung, Übersp.-Schutz	BV	Power pack, protective circuit	BV	Alimentation, protection surcharge
BZ	Zubehör	BZ	Accessories	BZ	Accessoires

Teile-familie	Art des Bauelementes	Parts family	Type of component	Famille	Type d'element
C	**Kondensatoren**	**C**	**Capacitors**	**C**	**Condensateurs**
CB	Bypass-, Durchf.-Kondensator	CB	Bypass capacitor, feed-through capacitor	CB	Condensateur bypass, condensateur de traversée
CC	Keramischer Kondensator	CC	Ceramic capacitor	CC	Condensateur céramique
CD	Drehkondensator	CD	Variable capacitor	CD	Condensateur variable
CE	Elektrolytkondensator	CE	Electrolytic capacitor	CE	Condensateur électrolytique
CG	Glimmerkondensator	CG	Mica capacitor	CG	Condensateur au mica
CH	Sperrschichtkondensator	CH	Semiconductor capacitor	CH	Condensateur semiconducteur
CK	Kunstfolienkondensator	CK	Synthetic-foil capacitor	CK	Condensateur à feuille synthétique
CL	Ker. Hochsp.-Kondensator	CL	HV capacitor (ceramic)	CL	Condensateur HT céramique
CM	Metallpapier-Kondensator	CM	MP capacitor	CM	Condensateur à papier métallisé
CN	Kondensatornetzwerk	CN	Capacitor network	CN	Réseau capacitif
CP	Papierkondensator	CP	Paper capacitor	CP	Condensateur au papier
CS	Störschutzkondensator	CS	Interference-suppression capacitor	CS	Condensateur anti-parasite
CT	Trimmkondensator	CT	Trimmer capacitor	CT	Condensateur ajustable
CV	Vakuum-Kondensator	CV	Vacuum capacitor	CV	Condensateur à vide
D	**Drähte, Leitungen**	**D**	**Wires, lines**	**D**	**Fils, lignes**
DD	Schalt- und Wickeldraht	DD	Hook-up or winding wire	DD	Fil de câblage, fil de bobinage
DF	Flachleitung, Litze	DF	Flat multiple line, stranded wire	DF	Ligne plate, ligne torsadée
DG	Abgeschirmte Leitung	DG	Shielded line	DG	Ligne blindé
DH	Koaxialkabel	DH	Coaxial line	DH	Ligne coaxiale
DJ	Isolierschläuche, Schrumpfschläuche, Wellrohre, Schutzschläuche	DJ	Insulating sheaths, shrink-on sleeves, corrugated tubes, protective tubes	DJ	Gaines isolantes, gaines thermorétractables tubes ondulés, gaines protectrices
DL	HF-Litzen	DL	RF stranded wires	DL	Lignes torsadées RF
DM	Schaltlitzen (mehrdrähtige Leiter)	DM	Multi-conductor wires	DM	Lignes torsadées (multiconducteurs)
DN	Antenne	DN	Antenna	DN	Antenne
DO	Lichtleiter (optisch)	DO	Optical waveguides	DO	Guides d'onde optiques
DP	Leiterplatten (unbestückt)	DP	Printed circuit boards (bare)	DP	Cartes imprimées (non équipées)
DQ	Multilayer (unbestückt)	DQ	Multilayer boards (bare)	DQ	Cartes multicouche (non équipées)
DS	Anschlußkabel (mehradrig)	DS	Connecting cable, multicore	DS	Câble de connexion (multiconducteur)
DU	Substratplatten für Dickschichtschaltungen	DU	Substrate boards for thickfilm circuits	DU	Cartes à substrat pour circuits à couche épaisse
DW	Festmantelkabel	DW	Rigid cables	DW	Câbles rigides
E	**Elektrische Teile**	**E**	**Electric parts**	**E**	**Organes électriques**
EB	Blei-, NC-Akku, Batterie	EB	Lead or alkaline accumulator, battery	EB	Accumulateur Pb/NC, batterie
ED	Gedruckte Schaltung (bestückte Leiterplatte), nicht steckbar	ED	Printed circuits (assembled), non-pluggable	ED	Circuits imprimés (équipés) non enfichables
EE	Gedruckte Schaltung (bestückte Leiterplatte), steckbar	EE	Printed circuits (assembled), pluggable	EE	Circuits imprimés (équipés) enfichables
EF	Glühlampe, Leuchte	EF	Incandescent lamp, pilot lamp	EF	Lampe à incandescence, voyant
EG	Glimmlampe, Entladungslampe	EG	Glow lamp, discharge lamp	EG	Lampe à luminescence lampe à décharge
EK	Kontakt-Streifen, -Feder	EK	Contact clip, contact spring	EK	Lampe de contact, ressort de contact
EL	Lautsprecher, Kopfhörer, Mikrofon	EL	Loudspeaker, headphones, microphone	EL	Haut-parleur, casque, microphone
EM	Motor, Hubmagnet, Drehfeldsystem	EM	Motor, lifting magnet, synchro system	EM	Moteur, électro-aimant de levage, système synchro
EO	Oszillator, z.B. Quarzoszillator	EO	Oscillator, e.g. crystal oscillator	EO	Oscillateur p.ex. oscillateur à quartz
EP	Tief-, Band-, Hochpaß, Bandsperre, Diskriminator	EP	Lowpass, bandpass, highpass filter, band-stop filter, discriminator	EP	Filtre passe-bas, passe-bande, passe-haut, suppression de bande, discriminateur
EQ	Schwing-, Filter-Quarz	EQ	Oscillator or filter crystal	EQ	Quartz oscillateur, quartz de filtre
ER	Resonator, piezoelektr./magnetostriktiv	ER	Resonator, piezoelectric/ magnetostrictive	ER	Résonateur piézo-électrique/ magnéto-strictif
ES	Passive SHF-Bauteile	ES	Passive SHF-components	ES	Composant SHF passif
ET	Thermostat	ET	Thermostat	ET	Thermostat
EV	Lüfter, Gebläse	EV	Ventilator, blower	EV	Ventilateur, soufflerie

R&S-Schlüsselliste
R&S key list
Liste des symboles de référence R&S

ROHDE&SCHWARZ

Teile-familie	Art des Bauelementes	Parts family	Type of component	Famille	Type d'élement
F	**Fassungen, Steckverbindungen**	**F**	**Sockets, connectors**	**F**	**Douilles, connecteurs**
FG	Koax-Umrüstsatz	FG	Coaxial screw-in assembly	FG	Ensemble vissable coaxial
FH	Koax-Übergang auf Fremdsystem	FH	Coaxial adapter	FH	Adaptateur coaxial
FJ	BNC-Systemteil	FJ	BNC screw-in assembly	FJ	Ensemble vissable BNC
FK	Koaxial-UHF-Systemteil	FK	Coaxial UHF screw-in assembly	FK	Ensemble vissable coaxial UHF
FM	Mehrfachstecker, Buchsenleiste	FM	Multipoint connector	FM	Connecteur multiple
FN	Netz-Steckverbindung	FN	AC-supply connector	FN	Connecteur secteur
FO	Runde Mehrfach-Steckverbindung	FO	Round multipoint connector	FO	Connecteur multipoles rond
FP	Druckschalt-Steckverbindung	FP	Multipoint connector for PC boards	FP	Connecteur multipoles pour cartes imprimées
FR	Fassung für Lampe, Sicherung, usw.	FR	Socket for lamp, fuse, etc.	FR	Douille pour lampe, fusible etc. . . .
FT	Schwachstrom-Steckverbindung	FT	LV plug and socket	FT	Connecteur pour faible courant
FU	Hochspannungs-Steckverbindung	FU	HV plug and socket	FU	Connecteur pour haute tension
FV	Verbinder (z.B. AMP)	FV	Push-on connector	FV	Connecteur à enfichage
FZ	Zubehör für koax. Bauelemente	FZ	Accessories for coax. components	FZ	Accessoires pour composants coax.
H	**Software**	**H**	**Software**	**H**	**Logiciel**
HP	Software-Komponenten und Software-Module	HP	Rights to software components and software modules	HP	Droits d'utilisation de composants et modules logiciel
HS	Auf Informationsträger geladene Software	HS	Software data media	HS	Logiciel sur support d'information
J	**Meßinstrumente**	**J**	**Indicators**	**J**	**Indicateurs**
JD	Drehspul-Anzeigeinstrument	JD	Moving-coil meter	JD	Galvanomètre à cadre mobile
JE	Dreheisen-Anzeigeinstrument	JE	Moving-iron meter	JE	Galvanomètre à fer mobile
JF	Frequenzmesser	JF	Frequency meter	JF	Fréquencemètre
JG	Drehspulinstrument mit Gleichrichter	JG	Moving-coil meter with rectifier	JG	Galvanomètre à cadre mobile avec redresseur
JH	Betriebsstundenzähler	JH	Operating-hours counter	JH	Compteur d'heures de fonctionnement
JJ	Impulszähler	JJ	Pulse counter	JJ	Compteur d'impulsions
JK	Kleinst-Instrument, z.B. Abstimmanzeiger	JK	Mini-instrument, e.g. tuning indicator	JK	Petit indicateur, p.ex. indicateur d'accord
JM	Mechanisches Zählwerk	JM	Mechanical counter	JM	Compteur mécanique
JP	Projektions-Instrument (Leuchtziffer)	JP	Digital display	JP	Afficheur numérique
JQ	Quotientenmesser (Kreuzspulinstrum.)	JQ	Ratiometer (cross coul)	JQ	Quotientmètre (à cadres croisés)
JU	Uhrwerk	JU	Clockwork	JU	Mouvement d'horlogerie
JW	Elektrodyn. Anzeigeinstrument	JW	Electrodynamic meter	JW	Instrument électrodynamique
L	**Induktivitäten, Magnetik**	**L**	**Inductors, magnetic components**	**L**	**Composants inductifs et magnétiques**
LB	Blech- und Schnittbandkern mit Zubehör	LB	Laminated and C-cores with accessories	LB	Noyaux feuilletés et noyaux de type C avec accessoires
LC	Keramische Spule	LC	Ceramic coil	LC	Bobine céramique
LD	Netz-, HF-Drossel, Df-Filter	LD	Choke, lead-through filter	LD	Self de choc, filtre de traversee
LE	Einzelkreis, Bandfilter	LE	Single tuned circuit, bandpass filter	LE	Circuit accordé, filtre passe-bande
LF	Ferritkern mit Zubehor	LF	Ferrite cores with accessories	LF	Noyaux en ferrite avec accessoires
LK	Karbonyleisenkern und elektrischer Kupferkern mit Zubehor	LK	Iron carbonyl slugs and copper slugs with accessories	LK	Noyaux en fer carbonyle et en cuivre, avec accessoires
LL	Luftspule	LL	Air-core coils	LL	Bobines à air
LM	Magnetband und -platte	LM	Magnetic tapes and disks	LM	Bandes et disques magnétiques
LS	Schirmbecher	LS	Screening cans	LS	Boîtiers de blindage
LT	Netztransformator	LT	Power transformer	LT	Transformateur secteur
LU	NF-Übertrager	LU	AF transformer	LU	Transformateur BF
LV	Variometer	LV	Variometer	LV	Variomètre
LW	Wickelkörper, allgemein	LW	Coil formers, general	LW	Carcasses de bobine, en general

Teile-familie	Art des Bauelementes	Parts family	Type of component	Famille	Type d'element
R	**Widerstände**	**R**	**Resistors**	**R**	**Résistances**
RD	Drahtwiderstand	RD	Wire-wound resistor	RD	Résistance bobinée
RF	Kohleschicht-Widerstand	RF	Carbon-film resistor	RF	Résistance à couche de carbone
RG	Metallglasur-Widerstand	RG	Metal-coated resistor	RG	Résistance à couche métallique
RJ	Metalloxyd-Widerstand	RJ	Metal-oxide resistor	RJ	Résistance à oxyde métallique
RK	Kaltleiter, Heißleiter, Varistor	RK	PTC, NTC resistors, varistors	RK	Résistances CPT, CNT, varistors
RL	Metallfilm-Widerstand	RL	Metal-film resistor	RL	Résistance à film métallique
RN	Widerstandsnetzwerk	RN	Resistor network	RN	Réseau de résistance
RR	Draht-Potentiometer	RR	Wire-wound potentiometer	RR	Potentiomètre bobiné
RS	Schicht-Potentiometer	RS	Carbon-film potentiometer	RS	Potentiomètre à couche
RT	Dämpfungsglied, Abschlußwiderstand	RT	Attenuator, termination	RT	Atténuateur, charge
RV	Drahtwiderstand mit Abgriff	RV	Wire-wound resistor, tapped	RV	Résistance bobinée à prise
RW	Wendelpotentiometer	RW	Helical potentiometer	RW	Potentiomètre hélicoidal
S	**Schalter, Relais, Sicherungen**	**S**	**Switches, relays, fuses**	**S**	**Commutateurs, relais, fusibles**
SB	Drucktastenschalter	SB	Pushbutton switch	SB	Commutateur à touche
SD	Drehschalter	SD	Rotary switch	SD	Commutateur rotatif
SF	Kontaktfedersatz	SF	Spring contact assembly	SF	Jeu de ressorts de contact
SH	HF-Koaxialschalter, -Relais, -Teiler	SH	Coaxial RF switch, RF relay, RF attenuator	SH	Commutateur RF coaxial, relais RF, atténuateur RF
SK	Kipp-, Wipp- und Schiebeschalter	SK	Toggle switch, slide switch	SK	Commutateur à bascule, à glissière
SL	Leistungsschalter Netz/HF	SL	AC supply switch, high-power RF switch	SL	Commutateur secteur, de puissance RF
SM	Mikroschalter	SM	Microswitch	SM	Microrupteur
SN	Elektromagnet, Relais	SN	Electromagnetic relay	SN	Relais électromagnétique
SP	Leistungsrelais, Luftschütz	SP	Power relay, air-type contactor	SP	Relais de puissance, contacteur à air
SR	Reedrelais	SR	Reed relay	SR	Relais reed
SS	Sicherung, Schutzschalter	SS	Fuse, automatic cut-out	SS	Fusible, coupe-circuit automatique
ST	Thermoschalter	ST	Thermal circuit breaker	ST	Disjoncteur thermique
SU	Überspannungs-Ableiter	SU	Arrester	SU	Eclateur
SW	Wechselrichter, Näherungsschalter	SW	Inverter (DC-AC), proximity switch	SW	Inverseur (DC-AC), commutateur de proximité
SZ	Zeitschalter	SZ	Time switch	SZ	Interrupteur horaire
V	**Verbindungselemente**	**V**	**Connecting elements**	**V**	**Eléments de raccordement**
VK	Klemme, Klemmleiste	VK	Clamp, terminal strip	VK	Pince, réglette à bornes
VL	Lötöse, Stützpunkt	VL	Soldering lug	VL	Cosse à souder
VS	Schraube, Mutter, Scheibe	VS	Screw, nut, washer	VS	Vis, écrou, disque

Farbcode für Widerstände und Kondensatoren

Anmerkung:
Die Wertangabe der weitgehend miniaturisierten Bauelemente erfolgt überwiegend durch Farbkennzeichnungen, deren Bedeutung der nachfolgenden Tabelle entnommen werden kann.

Hinweis:
Im Zuge des technischen Fortschrittes setzt R&S zunehmend Metallschichtwiderstände mit 1% Toleranz anstelle von Kohleschichtwiderständen mit 5% Toleranz ein. Metallschichtwiderstände können sich dabei an Stellen befinden, an denen gemäß Schaltteilliste Kohleschichtwiderstände vorgesehen sind. Etwaige geringfügige Differenzen der Nennwerte zwischen Stromlaufplan, Schaltteilliste und Gerät liegen im zulässigen Toleranzbereich.

Colour code for resistors and capacitors

Note:
The electrical values of the largely miniaturized components are mainly identified by a colour code, the meaning of which can be taken from the table below.

N. B.:
Following the state of the art R&S makes increasing use of metal-film resistors (1% tolerance) instead of carbon-film resistors (5% tolerance). Metal-film resistors may have been employed where carbon-film resistors are specified in the parts list. Any slight differences of nominal values between circuit diagram, parts list and equipment are within tolerance.

Code couleur pour résistances et condensateurs

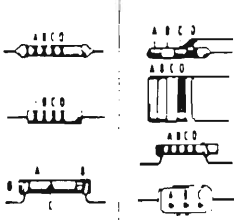
Remarque:
Les valeurs électriques des composants fort miniaturisés sont indiquées dans la plupart des cas par un code couleur dont voici l'explication.

N. B.:
Suivant le progrès technique R&S utilise de plus en plus des résistances à film métallique (tolérance 1%) au lieu des résistances à couche de carbone (tolérance 5%). Des résistances à film métallique peuvent se trouver en des points où des types à couche de carbone figurent dans la liste des composants. Les différences minimes des valeurs nominales existant éventuellement entre le schéma de circuit, la liste des composants et l'appareil sont dans la marge de tolérance.

Farbe/Colour/Couleur	A	B	C	D
Schwarz/Black/Noir	—	0		
Braun/Brown/Marron	1	1	0	± 1%
Rot/Red/Rouge	2	2	00	± 2%
Orange/Orange	3	3	000	
Gelb/Yellow/Jaune	4	4	0000	
Grün/Green/Vert	5	5	00000	± 0.5%
Blau/Blue/Bleu	6	6	000000	
Violett/Violet	7	7	—	± 0.1%
Grau/Gray/Gris	8	8	—	
Weiß/White/Blanc	9	9	—	
Gold/Dore	—	—	—	± 5%
Silber/Silver/Argente	—	—	—	± 10%
Ohne Farbe/No colour/ Pas de couleur	—	—	—	± 20%

Anordnungsbeispiele für / Examples for / Exemple pour

Widerstände (R) / Resistors (R) / Resistance (R) — Kondensat. (C) / Capacitors (C) / Condensateur (C)



1) Toleranzring, hier nicht spezifiziert

1) Tolerance ring, here not specified

1) Anneau de tolérance, ne pas spécifié ici

Definition* / Definition* / Définition*

Kennzeichen A (Bauteilfarbe/1. Farbring) = 1. Zahl
Kennzeichen B (Bauteilende/2. Farbring) = 2. Zahl
Kennzeichen C (Punkt/3. Farbring) = 3. Zahl = Zahl der Nullen
Kennzeichen D (Punkt/4. Farbring) = Toleranz des Nennwerts in %
(Fehlendes Kennzeichen für D bedeutet ±20%)

Das Fehlen eines Kennzeichens bedeutet, daß die Farbe des Bauteilkörpers die Wertangabe darstellt

Marking A (body colour or first coloured ring) = 1st digit
Marking B (body end or second coloured ring) = 2nd digit
Marking C (dot or third coloured ring) = number of zeroes
Marking D (dot or fourth coloured ring) = tolerance on nominal value in %
(with no D marking tolerance ± 20%)

The absence of a marking signifies that the body colour gives the corresponding information

Repérage A (couleur du corps ou 1er anneau) = 1er chiffre
Repérage B (bout du corps ou 2e anneau) = 2e chiffre
Repérage C (point ou 3e anneau) = nombre de zéros
Repérage D (point ou 4e anneau) = tolérance en % de la valeur nominale
(L'absence de repérage D signifie ± 20%)

L'absence de tout repérage signifie que la couleur du corps du composant représente la valeur correspondante

* Siehe auch DIN 41 429 und DIN 40 825

* see also IEC publication 62-1952 and 62-1968

* Voir aussi DIN 41 429 et DIN 40 825

Cross-Reference List of Class Designation Letters

IEC Publication 113-2 (1971) Item Designations, Letter Codes
ANSI Y32.2-1975 (IEEE Std 315-1975), Section 22, Class Designation Letters

Note: The designation letters used in the R&S Manuals correspond to the letter codes of the IEC Standard identified in the first column!

IEC Publication 113-2 Terminology	Letter Code IEC	Y32.2
Acoustical indicator	H	LS
Adjustable resistor	R	R
Aerial	W	E
Amplifier	A	AR
Amplifier (with tubes)	A	AR
Arrester	F	E
Assemblies	A	A,U
Auxiliary switch	S	S
Battery	G	BT
Bistable element	D	U,A
Brake	Y	MP
Busbar	W	W
Cable	W	W
Cable balancing network	Z	Z
Capacitor	C	C
Changer	U	A,B,G,MT
Circuit breaker	Q	CB
Clutch	Y	MP
Coder	U	U,A
Compander	Z	A
Connecting stage	S	S
Contactors	K	K
Control switch	S	S
Converter	U	A,U,MG
Core, storage	D	E
Crystal filter	Z	FL
Crystal transducer	B	Y
Current transformer	T	T
Delay device	D	DL
Delay line	D	DL
Demodulator	U	A
Dial contact	S	S
Diode	V	D
Dipole	W	E
Disconnecting plug	X	P
Disconnecting socket	X	X
Discriminator	U	A
Disk recorder	D	A
Dynamotor	B	MG
Electrically operated mechanical device	Y	MT
Electronic tube	V	V
Equalizer	Z	EQ
Filter	Z	FL
Frequency changer	U	A,B,G
Fuse	F	F
Gas discharge tube	V	V
Generator	G	G
Heating device	E	HR
Hybrid	Z	Z
Indicating device	P	DS
Induction coil	L	L
Inductors	L	L
Integrating measuring device	P	M,MT,Z
Inverter	U	A,U,PS,MG
Isolator	Q	AT
Jumper wire	W	W
Laser	A	MT,A
Lighting device	E	DS
Limit switch	S	S
Limiter	Z	MT,RE
Line trap	L	FL,MP,V
Loudspeaker	B	LS
Magnetic amplifier	A	AR

IEC Publication 113-2 Terminology	Letter Code IEC	Y32.2
Magnetic tape recorder	D	A
Maser	A	A
Measuring equipment	P	M
Microphone	B	MK
Miscellaneous	E	E
Modulator	U	A
Monostable element	D	A,U
Motor	M	B
Optical indicator	H	DS
Oscillator	G	Y,G
Overvoltage discharge device	F	F,E
Parabolic aerial	W	E
Photoelectric cell	B	V
Pickup	B	PU
Plug	X	P
Pneumatic valve	Y	MP
Potentiometer	R	R
Power switchgear	Q	CB,S
Protective device	F	F
Pushbutton	S	S
Quartz-oscillator	G	Y
Recording device	P	A,M
Register	D	A,U,M
Relay	K	K
Resistor	R	R
Resolver	B	B
Rheostat	R	R
Rotating frequency generator	G	G,MG
Rotating generator	G	G
Selector	S	S
Selector switch	S	S
Semiconductor	V	D,CR,Q
Shunt (resistor)	R	R
Signal generator	P	A
Signaling device	H	DS
Socket	X	X
Soldering terminal strip	X	E,TB
Static frequency changer	U	A
Storage device	D	A,U
Subassembly	A	A
Supply	G	A,PS
Supply device	G	A,PS
Synchro	B	B
Telegraph translator	U	A
Terminal	X	E
Terminal board	X	TB
Termination	Z	AT
Test jack	X	E,J
Testing equipment	P	A
Thermistor	R	RT
Thermo cell	B	A,TC
Thermoelectric sensor	B	A
Thyristor	V	Q
Transducer (nonelectrical quantity to electrical quantity)	B	A,BT
Transformer	T	T
Transmission path	W	W
Transistor	V	Q
Tube (electron)	V	V
Voltage transformer (potential)	T	T
Waveguide	W	W
Waveguide directional coupler	W	DC

Zusammenstellung der lieferbaren Netzkabel
List of power cables available
Liste des câbles d'alimentation disponibles

Sach-Nr. Stock No. Référence	Schutzkontaktstecker nach: Earthed-contact connector: Fiche à contact de protection:	Vorzugsweise verwendet in: Preferably used in: Utilisé de préférence en:
DS 006.7013	BS 1363: 1967' 13A entspr. IEC 83: 1975 Standard B2 BS 1363: 1967' 13A complying with IEC 83: 1975 Standard B2 BS 1363: 1967' 13A suivant CEI 83: 1975 norme B2	GB Great Britain Grande-Bretagne
DS 006.7020	Typ 12 nach SEV-Vorschrift 1011.1059, Normblatt S24507 Type 12 complying with SEV regulation 1011.1059, standard sheet S24507 Type 12 suivant la norme SEV 1011.1059, feuille S24507	Schweiz Switzerland Suisse
DS 006.7036	Typ 498/13 nach USA-Vorschrift UL 498, bzw. IEC 83 Type 498/13 complying with US regulation UL 498 or with IEC 83 Type 498/13 suivant la norme E.U.A UL 498 ou la norme CEI 83	USA/Kanada USA/Canada E.U.A./Canada
DS 006.7107	Typ SAA3 10 A, 250 V, nach AS C112-1964 Ap. Type SAA3 10 A, 250 V, complying with AS C112-1964 Ap. Type SAA3 10 A, 250 V, suivant AS C112-1964 Ap.	Australien Australia Australie
DS 025.2365	DIN 49441, 10 A, 250 V	Europa (ohne Schweiz) Europe (Switzerland not included) Europe (Suisse non comprise)

ROHDE&SCHWARZ

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

095.1000 Bl. 3

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR 05 = AUSF.FUER GSM/DCS HANDOVER MOD 05 = MOD FOR GSM/DCS HANDOVER VAR 45 = AUSFUEHRUNG FUER GA900 MOD 45 = MOD FOR GA900 MOD 50 = MOD FOR SERVICE GSM VAR 52 = GRUNDAUSFUEHRUNG MOD 52 = BASIC MODEL VAR 53 = AUSFUEHRUNG FUER SERVICE GSM/PCN MOD 53 = MOD FOR SERVICE GSM/PCN VAR 54 = AUSFUEHRUNG FUER GSM BS TEST MOD 54 = MOD.F.GSM BS TEST VAR 55 = AUSFUEHRUNG FUER PCN (DCS 1800) MOD 55 = MOD.F.PCN (DSC 1800) VAR 57 = AUSFUEHRUNG FUER PCN-BS-TEST MOD 57 = MOD.F.PCN BS TEST VAR 59 = AUSFUEHRUNG FUER DCS1900 (BTS) MOD 59 = MODEL FOR DCS1900 VAR 60 = AUSFUEHRUNG FUER MOD 60 = MOD. FOR DECT VAR 65 = AUSFUEHRUNG FUER MOD 65 = MODEL FOR VAR 70 = AUSFUEHRUNG FUER PDC+PHP MOD 70 = MOD.F.PDC+PHP VAR 71 = AUSFUEHRUNG FUER PDC + PHS MOD 71 = MOD. F. PDC+PHS VAR 80 = AUSFUEHRUNG FUER MOD 80 = MOD FOR CDMA VAR 81 = AUSFUEHRUNG FUER CDMA (SPEZ.VAR.) MOD 81 = MODEL FOR CDMA (SPECIAL VERSION) VAR 84 = AUSFUEHRUNG MIT SPEICHERERWEIT. MOD 84 = MOD.FOR CDMA WITH EXTENDET MEMORY VAR 85 = AUSFUEHRUNG MIT SPEICHERERWEIT. (SPEZ.VAR.) MOD 85 = MODEL FOR CDMA WITH EXT. MEMORY (SPEZIAL VERSION) VAR 90 = AUSFUEHRUNG FUER TETRA MOD 90 = MOD. F. TETRA VAR 91 = AUSFUEHRUNG FUER TETRA (SYSTEM) MOD 91 = MOD. F. TETRA (SYSTEM)				
A1	BP DMF50161NFUFW FSTN S/W DISPLAY WITH ILLUMINATION	0008.9094.00	OPTREX	DMF50161NFU-FW	
A2	EE RF CONVERTER RF CONVERTER NUR VAR/ONLY MOD: 05	1097.4102.02			
A2	EE RF CONVERTER RF CONVERTER NUR VAR/ONLY MOD: 53 55 57 59 65	1051.2120.06			
A2	EE RF CONVERTER RF CONVERTER NUR VAR/ONLY MOD: 45	1051.2120.08			
A2	EE ANALOG DOWN CONVERTER ANALOG DOWN CONVERTER NUR VAR/ONLY MOD: 70 71 80 81 84 85 91	1051.2607.02			

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
A2	EE ANALOG DOWN CONVERTER NUR VAR/ONLY MOD: 90	1097.3006.02			
A3	EE RF SYNTHESIZER RF SYNTHESIZER NUR VAR/ONLY MOD: 05 45 50 52 53 54 55 57 59 65	1051.0404.04			
A3	EE RF SYNTHESIZER RF SYNTHESIZER NUR VAR/ONLY MOD: 70 71 80 81 84 85	1051.2307.02			
A3	EE RF SYNTHESIZER RF SYNTHESIZER NUR VAR/ONLY MOD: 90 91	1051.2307.04			
A3	EE REFERENCE FREQUENCY REFERENCE FREQUENCY NUR VAR/ONLY MOD: 60	1051.3303.02			
A4	EE LINK HANDLER LINK HANDLER NUR VAR/ONLY MOD: 45 50 53	1051.0704.06			
A4	EE LINK HANDLER LINK HANDLER NUR VAR/ONLY MOD: 54 57 59	1051.0704.08			
A4	GM LINK HANDLER F. CMD84 LINKHANDLER NUR VAR/ONLY MOD: 84	1097.6734.00	TEKTRONIX	119-5226-02	
A4	GM LINK HANDLER F. CMD85 LINKHANDLER NUR VAR/ONLY MOD: 85	1097.6740.00	TEKTRONIX	119-4988-02	
A4	EE LINK HANDLER LINK HANDLER NUR VAR/ONLY MOD: 05 52 55 65	1051.0704.10			
A4	GM LINK HANDLER F. CMD80 LINKHANDLER NUR VAR/ONLY MOD: 80	1051.5693.00	TEKTRONIX	119-5226-01	
A4	GM LINK HANDLER F. CMD81 LINKHANDLER NUR VAR/ONLY MOD: 81	1051.5706.00	TEKTRONIX	119-4988-00	
A4	EE LINK HANDLER LINK HANDLER NUR VAR/ONLY MOD: 90	1097.3570.04			
A4	EE IQ I/O INTERFACE NUR VAR/ONLY MOD: 91	1097.3306.02			
A5	EE DECT UNIT DECT UNIT NUR VAR/ONLY MOD: 60 65	1051.3103.02			
A6	EE POW.PHASE FREQU.MEAS. POWER PHASE FREQU.MEAS. NUR VAR/ONLY MOD: 54 57 59	1051.6683.02			
A6	EE DIGITAL DOWN CONVERTER DIGITAL DOWN CONVERTER NUR VAR/ONLY MOD: 70	1051.2407.08			
A6	EE DIGITAL DOWN CONVERTER DIGITAL DOWN CONVERTER NUR VAR/ONLY MOD: 71	1051.2407.06			
A6	EE DIGITAL DOWN CONVERTER DIGITAL DOWN CONVERTER NUR VAR/ONLY MOD: 80 81 84 85 91	1051.2407.02			
A6	EE DIGITAL DOWN CONVERTER DIGITAL DOWN CONVERTER NUR VAR/ONLY MOD: 90	1051.2407.04			
A7	EE CONTROLLER CONTROLLER NUR VAR/ONLY MOD: 45 70	1051.1000.11			
A7	EE CONTROLLER CONTROLLER NUR VAR/ONLY MOD: 50 53	1051.1000.13			
A7	EE CONTROLLER CONTROLLER NUR VAR/ONLY MOD: 05 52 54 55 57 59 60 65 71 90 91	1051.1000.15			
A7	EE CONTROLLER CONTROLLER NUR VAR/ONLY MOD: 80 81 84 85	1051.1000.18			
A8	GG CMD-B6 ADAPTER OPT. NUR VAR/ONLY MOD: 45	1051.7409.02			

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
A9	GJ SCHALTNETZTEIL-APFC- SWITCHING POWER SUPPLY	1039.1510.00	PULS	TYP APFC	
A10	EE 2ND RF SYNTHESIZER 2ND RF SYNTHESIZER NUR VAR/ONLY MOD: 05 45 50 52 53 55 65	1051.6431.02			
A11	EE DOWN CONVERTER DOWN CONVERTER NUR VAR/ONLY MOD: 05 50 52 53 54 55 57 59 65	1051.1375.06			
A11	EE DOWN CONVERTER DOWN CONVERTER NUR VAR/ONLY MOD: 45	1051.1375.04			
A11	EE TX CONVERTER NUR VAR/ONLY MOD: 90 91	1097.2800.02			
A12	EE RF FRONTEND RF FRONT-END NUR VAR/ONLY MOD: 50 52	1051.1500.02			
A12	EE RF FRONTEND RF FRONTEND NUR VAR/ONLY MOD: 54	1051.1500.04			
A12	EE RF FRONTEND PCN RF FRONT-END PCN NUR VAR/ONLY MOD: 05 53 55 65	1051.1800.02			
A12	EE RF FRONTEND PCN RF FRONTEND PCN NUR VAR/ONLY MOD: 57 59	1051.1800.04			
A12	EE RF FRONTEND RF FRONTEND NUR VAR/ONLY MOD: 45	1051.1800.08			
A12	EE FRONTEND FRONTEND NUR VAR/ONLY MOD: 70 71 80 81 84 85	1051.2707.02			
A12	EE RF FRONTEND NUR VAR/ONLY MOD: 90	1097.3770.02			
A12	EE FRONTEND FRONTEND NUR VAR/ONLY MOD: 91	1051.2707.04			
A13	EE IF LOG. AMPLIFIER IF LOG AMPLIFIER NUR VAR/ONLY MOD: 54 57 59	1051.7180.02			
A15	ED FRONT PANEL BOARD I FRONT PANEL BOARD I	1051.0004.02			
A16	ED FRONT PANEL BOARD II FRONT PANEL BOARD II	1051.0104.02			
A17	ZM TASTATUR KEYBOARD NUR VAR/ONLY MOD: 70 71	1050.9943.00			
A17	ZM TASTATUR KEYBOARD NUR VAR/ONLY MOD: 05 45 52 55 60 65 91	1050.9395.00			
A17	ZM TASTATUR KEYBOARD NUR VAR/ONLY MOD: 80 81 84 85	1097.2597.00			
A17	ZM TASTATUR KEYBOARD NUR VAR/ONLY MOD: 54 57 59 90	1050.9872.00			
A17	ZM TASTATUR KEYBOARD NUR VAR/ONLY MOD: 50 53	1050.9908.00			
A19	EE REAR PANEL BOARD REAR PANEL BOARD	1051.0156.02			
A31	GG CMD-B2 OCXO REF.OSC. NUR VAR/ONLY MOD: 45	1059.8604.02			
A43	GG CMD-B5 SPEECH CODEC NUR VAR/ONLY MOD: 45	1051.8657.02			
A83	GG CMD-B61 IEEE BUS NUR VAR/ONLY MOD: 45	1051.7609.02			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 53	1050.9750.08			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 05 55 57	1050.9750.08			

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 54 59	1050.9750.08			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 45 50 52 65	1050.9750.08			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 60	1050.9750.08			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 70 71 80 81 84 85	1051.2220.02			
A100	ED MOTHERBOARD MOTHERBOARD NUR VAR/ONLY MOD: 90 91	1051.2220.04			
A410	EE RAM MODULE NUR VAR/ONLY MOD: 90	1097.3158.02			
A430	EE I/Q OUT MODULE NUR VAR/ONLY MOD: 90	1097.3670.02			
A440	EE DSP MODULE NUR VAR/ONLY MOD: 90	1097.3106.03			
A450	EE DSP MODULE NUR VAR/ONLY MOD: 90	1097.3106.03			
A460	EE DSP MODULE NUR VAR/ONLY MOD: 90	1097.3106.03			
B1	ZM LAUTSPRECHER/SPEAKER SPEAKER	1050.9643.00			
D1	GM 2,5ZOLL FESTPL. 1,6GB 2.5" HARDDISK 1.6GB	0048.5919.00	FUJITSU_LI	M2724TAM	
E1	DX LUEFTEREINHEIT BLOWER UNIT	1097.2180.00			
K1	DX KOAXRELAIS NUR VAR/ONLY MOD: 65	1051.3584.00			
R1	RS 0,15W 2,2KLIN/10K POS: POTENTIOMETER	0840.6342.00	PREH	D 63258-100 / 0015	
R2	RD 8W 0,05 OHM+-1% GEH. WIRE WOUND RESISTOR NUR VAR/ONLY MOD: 05 45 50 52 53 54 55 57 59 60 65 70 80 81 84 85	RD 0689.8824.00	DALE	RH-10	
R2	RD 8W 0,05 OHM+-1% GEH. WIRE WOUND RESISTOR NUR VAR/ONLY MOD: 90 91	RD 0689.8824.00	DALE	RH-10	
R2	RD 8W 0,2 OHM+-1% GEH. WIRE-WOUND RESISTOR NUR VAR/ONLY MOD: 71	RD 0418.2267.00	DALE	RH-10	
R3	FJ BNC-ABSCHL.W.50OHM 1W. TERMINATING RESISTOR NUR VAR/ONLY MOD: 60 65	FJ 0244.7677.00	RADIALL	R 404011	
T1	BV E1256 DC/AC-WANDLER DC/AC-CONVERTER	0840.5698.00	ERG	0840.5698	
W1	DW HF-KABEL CABLE NUR VAR/ONLY MOD: 05 45 50 52 53 54 55 57 59 70 71 80 81 84 85	1051.3510.00			
W1	DW HF-KABEL CABLE NUR VAR/ONLY MOD: 90 91	1051.3510.00			
W1	DW HF-KABEL RF CABLE NUR VAR/ONLY MOD: 60	1051.3532.00			
W1	DW HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.1623.00			1059.8040.00
W2	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3710.00			1051.3703.00
W2	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3861.00			1051.3810.00

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
W2	DW HF-KABEL W2 NUR VAR/ONLY MOD: 65	1097.2300.00			1059.8185.00
W2	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3926.00			1051.3910.00
W2	DV HF-KABEL RF-CABLE NUR VAR/ONLY MOD: 57 59	1051.3978.00			1051.3961.00
W2	DV HF-KABEL NUR VAR/ONLY MOD: 60	1051.3355.00			1051.3884.00
W2	DV HF-KABEL CABLE	1051.3861.00			1051.3590.00
W2	DV HF-KABEL RF-CABLE NUR VAR/ONLY MOD: 90	1051.3978.00			1097.2468.00
W2	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 91	1051.3861.00			1097.2351.00
W2	DV HF-KABEL RF-CABLE	1051.3978.00			1097.2616.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3726.00			1051.3703.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3878.00			1051.3810.00
W3	DW HF-KABEL W3 NUR VAR/ONLY MOD: 65	1097.2316.00			1059.8185.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3726.00			1051.3910.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3878.00			1051.3961.00
W3	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 60	1051.3349.00			1051.3884.00
W3	DV HF-KABEL CABLE	1051.3878.00			1051.3590.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 90	1051.3878.00			1097.2468.00
W3	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 91	1051.3878.00			1097.2351.00
W3	DV HF-KABEL CABLE	1051.3878.00			1097.2616.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3732.00			1051.3703.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3732.00			1051.3810.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3732.00			1059.8185.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3732.00			1051.3910.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3732.00			1051.3961.00
W4	DV HF-KABEL CABLE	1051.3603.00			1051.3590.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 90	1051.3603.00			1097.2468.00
W4	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 91	1051.3603.00			1097.2351.00
W4	DV HF-KABEL CABLE	1051.3603.00			1097.2616.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3826.00			1051.3703.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3826.00			1051.3810.00

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3826.00			1059.8185.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3826.00			1051.3910.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3826.00			1051.3961.00
W5	DV HF-KABEL CABLE	1051.3610.00			1051.3590.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 90	1051.3610.00			1097.2468.00
W5	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 91	1051.3610.00			1097.2351.00
W5	DV HF-KABEL CABLE	1051.3610.00			1097.2616.00
W6	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3755.00			1051.3703.00
W6	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3832.00			1051.3810.00
W6	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3832.00			1059.8185.00
W6	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3755.00			1051.3910.00
W6	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3832.00			1051.3961.00
W6	DV HF-KABEL CABLE	1051.3626.00			1051.3590.00 F
W6	DV HF-KABEL CABLE	1051.3626.00			1097.2616.00
W7	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.3761.00			1051.3703.00
W7	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3761.00			1051.3810.00
W7	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3761.00			1059.8185.00
W7	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.3761.00			1051.3910.00
W7	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3761.00			1051.3961.00
W8	DY FLACHBANDLEITUNG CABLE	1051.3684.00			1051.3649.00
W8	DY FLACHBANDLEITUNG CABLE NUR VAR/ONLY MOD: 90 91	1051.3684.00			
W8	DY FLACHBANDLEITUNG CABLE NUR VAR/ONLY MOD: 05 45 52 54 55 57 59 60 65 70 71 80 81 84 85	1051.3684.00			
W9	DV FLACHBANDLEITUNG CABLE	1051.3655.00			1051.3649.00
W9	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 50 52	1051.6590.00			1051.3703.00
W9	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.6590.00			1051.3810.00
W9	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.6590.00			1059.8185.00
W10	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3849.00			1051.3810.00
W10	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3849.00			1059.8185.00

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
W10	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3849.00			1051.3961.00
W11	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 45 53 55	1051.3855.00			1051.3810.00
W11	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3855.00			1059.8185.00
W11	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.3855.00			1051.3961.00
W12	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 54	1051.7280.00			1051.3910.00
W12	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 57 59	1051.7280.00			1051.3961.00
W13	DV HF-KABEL NUR VAR/ONLY MOD: 45	1051.3990.00			
W14	DY FLACHBANDLEITUNG CABLE	1051.0385.00			1051.3649.00
W16	DX KABEL CABLE	1051.0085.00			1050.9643.00
W18	DF FLEX-STRIPVERB.10P.GER FLEX-STRIP	1051.5035.00	SUMITUMO	SMCD-10X220-BDX10-P1	
W19	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 60	1051.3332.00			1051.3884.00
W19	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.3332.00			1051.3890.00
W20	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 60	1051.3390.00			1051.3884.00
W20	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3390.00			1051.3890.00
W21	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 60	1051.3403.00			1051.3884.00
W21	DV HF-KABEL CABLE NUR VAR/ONLY MOD: 65	1051.3403.00			1051.3890.00
W30	DY FLACHBANDLEITUNG CABLE NUR VAR/ONLY MOD: 70 71 80 81 84 85 90 91	1051.3578.00			
W40	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 90	1097.2497.00			1097.2468.00
W40	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 91	1097.2497.00			1097.2351.00
W41	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 91	1097.2297.00			
W43	ED C91 I/O INTERFACE NUR VAR/ONLY MOD: 91	1097.3406.02			
W60	DY FLACHBANDLEITUNG CABLE NUR VAR/ONLY MOD: 60 65	1051.0391.00			
W61	DV KABEL NUR VAR/ONLY MOD: 60 65	1051.2971.00			1051.2965.00
W62	DV KABEL NUR VAR/ONLY MOD: 60 65	1051.2988.00			1051.2965.00
W63	DV KABEL NUR VAR/ONLY MOD: 60 65	1051.2994.00			1051.2965.00
W1A	DW HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.1630.00			1059.8040.00
W1B	DW HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.1646.00			1059.8040.00
W15A	DX KABEL W15A CABLE	1051.3678.00			1051.3649.00
W2A	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.1230.00			1059.8185.00

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
W3A	DV HF-KABEL RF CABLE NUR VAR/ONLY MOD: 65	1051.1246.00			1059.8185.00
W6A	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 90	1097.2474.00			1097.2468.00
W6A	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 91	1097.2474.00			1097.2351.00
W6B	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 90	1097.2480.00			1097.2468.00
W6B	DV HF KABEL RF CABLE NUR VAR/ONLY MOD: 91	1097.2480.00			1097.2351.00
X1 ..4	FT TELEFONBU.ISOL.4MM GR SOCKET	FT 0018.3001.00			
X5	FO EINBAUBU.5POL.M.FILTER CONNECTOR 5P.	1012.2751.00	BINDER	09-9694-00-05	
Z1 ..4	LD PI-FILTER 60DB/10GHZ PI-FILTER	0849.3023.00	TUSONIX	4205-001	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR02=GRUNDAUSFUEHRUNG MOD02=BASIC_MODEL VAR 04 = AUSF.F.CMD91 MOD 04 = MOD. F.CMD91				
C8	CC 10NF-20+50%7X8R4000 CAPACITOR	CC 0087.7525.00	VALVO	2222 640 51103	
L8	LD UKW-DR.Z=750 OHM 50MHZ CHOKE	LD 0026.4578.00	FASTRON_GE	06H-751X-00	
R1	RL 0,60W 51,1 OHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 02	RL 0082.9536.00	RESISTA	MK2	
R10	RN 9X 1KOHM+-2%SIL10 H5 RESISTOR NETWORK	RN 0343.4323.00	BI_TECHNOL	L 10 1 S 102 M*	
R11 ..16	RN 9X 10KOHM+-SIL10 H5 RESISTOR NETWORK NICHT BESTUECKT/NOT FITTED	RN 0343.4523.00	BI_TECHNOL	L 10 1 S 103 M*	
X1	FP STECKERLEISTE 40P.GER CONNECTOR	FP 1051.5635.00	THOMAS&BET	501-4037ES	
X2	FP STECKERLEISTE 50P.GER CONNECTOR	FP 1051.5641.00	THOMAS&BET	501-5037ES	
X3	FP STECKERLEISTE 50P.GER CONNECTOR 50P.	FP 0099.9434.00	BERG_ELEKT	71918-150	
X4	FP STECKERLEISTE 48P.KURZ CONNECTOR	FP 1051.5064.00	PANDUIT	100-348-051	
X5 ..7	FJ EINBAUSTECKER F.GS SMB PLUG	FJ 0063.5168.00	ROSENBERGE	59S106-400-D3	
X8	FJ WINKELEINBAUBUCHSE BNC ANGLE BNC	FJ 1051.4380.00	AMP	227677-1 +2X1-329631	
X9	FJ WINKELEINBAUBUCHSE BNC ANGLE BNC	FJ 1051.4380.00	AMP	227677-1 +2X1-329631	
X10	FP BUCHSENLEISTE 48P.KURZ CONNECTOR	FP 1051.5558.00	ERNI	594.083	
X11	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X12	FP BUCHSENLEISTE 48P.KURZ CONNECTOR	FP 1051.5558.00	ERNI	594.083	
X13	FP BUCHSENLEISTE 48P.KURZ CONNECTOR	FP 1051.5558.00	ERNI	594.083	
X14	FP STECKERLEISTE 50P.R=2 CONNECTOR 50P	FP 1051.4516.00	BERG_ELEKT	87131-550	
X15	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.8462.00			
X16	FJ EINBAUSTECKER F.GS SMB PLUG	FJ 0063.5168.00	ROSENBERGE	59S106-400-D3	
X17	FJ EINBAUSTECKER F.GS SMB PLUG	FJ 0063.5168.00	ROSENBERGE	59S106-400-D3	
X20	FP STECKERLEISTE 10P.GER CONNECTOR 10 WAY	FP 0649.4428.00	BERG_ELEKT	71918-110	
X21	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X22	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X23	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X24	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR NICHT BESTUECKT	FP 0009.5992.00			
X25	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X26	FP STIFTLEISTE 5P.R2,54 PIN CONNECTOR	FP 0009.6153.00			
X27	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X28	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X29	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR NICHT BESTUECKT	FP 0009.6101.00			
X30	FP STECKERLEISTE 10P.GER CONNECTOR 10P	0846.4593.00	SIEMENS	V23535-A2200-A102	
X31	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X32	FP STECKERLEISTE 26P.GER CONNECTOR 26POL.	FP 0620.0147.00	BERG_ELEKT	71918-126	
X33	FP STECKERLEISTE 10P.GER CONNECTOR 10 WAY	FP 0649.4428.00	BERG_ELEKT	71918-110	
X41	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X42	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X51	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X52	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X61	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X62	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X71	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X72	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X81	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X82	FP BUCHSENLEISTE 96P CONNECTOR	FP 1051.5564.00	PANDUIT	100-096-432	
X91	FM STECKERLEISTE 50P.WINK CONNECTOR 50P	FM 0516.3315.00	FCT	F50P5G1-K45	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X1	FM BUCHSENLEISTE 9P.WRAP CONNECTOR	FM 0614.3760.00	FCT	F09S4G1	
X2	FM STECKERLEISTE 9P.WRAP CONNECTOR	FM 0614.3777.00	FCT	F09P4G1	
X3	FM BUCHSENLEISTE 25P.WRAP CONNECTOR 25P.	FM 0680.2375.00	FCT	F25S4G1	
X4	FP BUCHSENLEISTE 48POL. 48-PIN CONNECTOR	0299.2660.00	MOLEX	48S-6033-072V-9	

MEZ11 709 3PLU	Äl	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
ROHDE&SCHWARZ	03	23.12.98	EE REAR PANEL BOARD	**1051.0156.01 SA**	1-

ROHDE&SCHWARZ

XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

el. Kennz.	Bauelement-Kennzeichen
Seite	Leiterplatten-Seite, auf der sich das Bauelement befindet
X/Y	Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt
Planq., Bl.	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 (in units of millimeters) 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

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
C8	B	180	15	7A	2	X9	B	203	11	6B	2	X29	B	358	227	1B	9
L8	B	184	22	7A	2	X10	B	80	158	2E	10	X30	B	112	253	7B	11
R1	B	74	123	2B	10	X11	B	55	158	1C	3	X31	B	263	72	6C	3
R10	B	159	93	00	4	X12	B	32	158	2E	11	X32	B	167	241	7D	11
R11	B	154	86	00	4	X13	B	10	158	4E	11	X33	B	210	20	00	2
R12	B	156	90	1E	4	X14	B	367	235	1E	9	X41	B	263	100	1C	4
R13	B	182	86	2E	4	X15	B	3	281	6E	9	X42	B	133	100	6C	4
R14	B	213	93	3E	4	X16	B	85	258	00	9	X51	B	263	128	1C	5
R15	B	217	43	00	2	X17	B	76	258	00	9	X52	B	133	128	6C	5
R16	B	217	39	00	2	X20	B	361	22	1E	2	X61	B	263	158	1C	6
X1	B	253	29	00	2	X21	B	263	45	7C	10	X62	B	133	158	6C	6
X2	B	313	29	1D	2	X22	B	14	281	00	9	X71	B	263	186	1C	7
X3	B	187	31	4D	2	X23	B	10	281	00	9	X72	B	133	186	6C	7
X4	B	27	273	4D	9	X24	B	364	227	1D	9	X81	B	263	217	1C	8
X5	B	5	265	00	9	X25	B	6	281	6E	9	X82	B	133	217	6C	8
X6	B	13	265	00	9	X26	B	241	22	7D	2	X91	B	296	229	6D	9
X7	B	20	265	00	9	X27	B	10	275	00	9						
X8	B	180	11	6A	2	X28	B	14	275	00	9						

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
X1	B	39	61	3D	1	X4A	A	4	20	2E	1	X4D	A	4	20		
X2	B	39	27	3E	1	X4B	A	4	20	2D	1	X5	B	13	77	3E	1
X3	B	22	16	3C	1	X4C	A	4	20	2C	1						

ROHDE&SCHWARZ

Stromläufe
Bestückungspläne

Circuit diagrams
Component plans

Schémas de circuit
Plans des composants

095.1000 Bl. 4

OVERVIEW

SHEET 2

X1	FRONT PANEL BOARD
X2	MEMORYCARD
X3	MULTIFUNCTION
X8	AFGEN
X9	AFVOLTM
X20	U/I MEASUREMENT
X26	(R1) VOLUME/CONTRAST
X33	DISP. RES.
C8	
L8	
R15	
R16	

SHEET 3

X11	RF CONVERTER
X31	RF SYNTHESIZER

SHEET 4

X41 }	LINK HANDLER
X42 }	
R10	
R11	
R12	
R13	
R14	

SHEET 5

X51 }	ABIS / SECOND LH
X52 }	

SHEET 6

X61 }	DIGITAL DOWN CONVERTER
X62 }	

SHEET 7

X71 }	CONTROLLER
X72 }	

SHEET 8

X81 }	OPTION BASIC BOARD
X82 }	

SHEET 9

X4	REAR PANEL BOARD
X5	IF10.7MHZ
X6	FREFIN
X7	FREFOUT1
X14	HARDDISK
X15	BLOWER
X16	ABISTX
X17	ABISRX
X22	OPTREFFR
X23	OPTRES1
X24	
X25	
X27	OPTRES2
X28	OPTRES3
X29	
X91	POWER SUPPLY

SHEET 10

X10	2ND RF SYNTHESIZER
X21	ANALOG DOWN CONVERTER
R1	

SHEET 11

X12	RF FRONTEND
X13	SECOND RECEIVER
X30	SERVICE INTERFACE
X32	DIG. MOD. INTERFACE

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE 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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03/01		1 . 97	GL

	TAG	NAME
1CMK		
BEARB.		GL
GEPR.		GL
NORM		
PLOTT	24.01.97	

ROHDE&SCHWARZ
ZU GERAET CMD

BENENNUNG
MOTHERBOARD
top sheet1

ZEICHN.-NR.
1051.2220.01S

BLATT-NR. 1
v. 11 BL.

REG.I.V. 1050.9008 ERSTE Z. 1050.9008

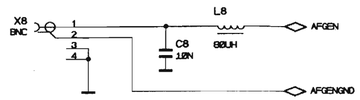
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

COMPONENT/PIN	SIGNAL	ON SHEET
FRONT PANEL BOARD		
X1 1		
X1 2	DISPD3	7
X1 3	DISPD2	7
X1 4	DISPD1	7
X1 5	DISPD0	7
X1 6	CP2	7
X1 7	CP1	7
X1 8	S	7
X1 9		
X1 10	STANDBYON	9
X1 11	+12VSTANDBY	3,9
X1 12	+12V	
X1 13	-15.3V	
X1 14	+15.3V	
X1 15	+5.2V	
X1 16	-30V	
X1 17		
X1 18		
X1 19	HANDSETOUT	4,8
X1 20	HANDSETIN	4
X1 21	AFGENMON	4,8
X1 22	AFVOLTMON	8
X1 23	SPOTI	
X1 24	SPEAKER	
X1 25		
X1 26	BEEPER	7
X1 27		
X1 28	DIAGNOSE	3,5,7,10,11
X1 29	KPOTI	
X1 30		
X1 31	SERBCLK	3,4,5,6,7,10,11
X1 32	SERBDATA	3,4,5,6,7,10,11
X1 33	SERBINT	3,4,5,6,7,10,11
X1 34	2MHZ	3,5
X1 35	BRESETDRV	3,4
X1 36	OPTREFFR	9
X1 37	OPTRES3	9
X1 38	OPTRES2	9
X1 39	OPTRES1	9
X1 40	OPTMEMCARDBUF	
DISP. RES.		
X33 1	DISPRES1	7
X33 2	DISPRES2	7
X33 3	DISPRES3	7
X33 4	DISPRES4	7
X33 5	DISPRES5	7
X33 6	DISPRES6	7
X33 7	DISPRES7	7
X33 8	DISPRES8	7
X33 9	DISPRES9	7
X33 10		

COMPONENT/PIN	SIGNAL	ON SHEET
MEMORYCARD		
X2 1	OPTMEMCARDBUF	
X2 2	ASTRB	8
X2 3		
X2 4		
X2 5	MEMA0	8
X2 6	MEMA1	8
X2 7	MEMA2	8
X2 8	MEMA3	8
X2 9	MEMA4	8
X2 10	MEMA5	8
X2 11	MEMA6	8
X2 12	MEMA7	8
X2 13		
X2 14	SELO	8
X2 15	SEL1	8
X2 16	CDS	8
X2 17	CDT	8
X2 18	CTYP0	8
X2 19	CTYP1	8
X2 20	HIADR	8
X2 21	REG	8
X2 22		
X2 23	BVD1	8
X2 24	BVD2	8
X2 25	WP	8
X2 26	RDY	8
X2 27	VPP	8
X2 28	VPP	8
X2 29	CDCS	8
X2 30	+5.2V	
X2 31	TORB	8
X2 32	TOWB	8
X2 33	+5.2V	
X2 34	D0	8
X2 35	D1	8
X2 36	D2	8
X2 37	D3	8
X2 38	D4	8
X2 39	D5	8
X2 40	D6	8
X2 41	D7	8
X2 42	D8	8
X2 43	D9	8
X2 44	D10	8
X2 45	D11	8
X2 46	D12	8
X2 47	D13	8
X2 48	D14	8
X2 49	D15	8
X2 50	+5.2V	
U/I MEASUREMENT		
X20 1		
X20 2	I+	7
X20 3		
X20 4	I-	7
X20 5		
X20 6	U+	7
X20 7		
X20 8	U-	7
X20 9		
X20 10		

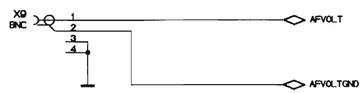
COMPONENT/PIN	SIGNAL	ON SHEET
MULTIFUNCTION		
X3 1	HANDSETOUT	4,8
X3 2	HANDSETIN	4
X3 3		
X3 4		
X3 5		
X3 6		
X3 7		
X3 8		
X3 9		
X3 10		
X3 11	TBUSRES1	4,5,6,7,8,10,11
X3 12	TBUSRES2	4,5,6,7,8,10,11
X3 13	TBUSRES3	4,5,6,7,8,10,11
X3 14	TBUSRES4	4,5,6,7,8,10,11
X3 15	TBUSRES5	4,5,6,7,8,10,11
X3 16	TBUSSIGINT	4,5,6,7
X3 17	TBUSPOWERINT	4,5,6,7,11
X3 18	TBUSRXFRMOUT	4,5,6,7,8
X3 19	TBUSAFRAMEREF	4,5,6,7,8
X3 20		
X3 21	BIDATA	8
X3 22	BICLK	8
X3 23	BIFRAME	8
X3 24	MULTIF0	8
X3 25	MULTIF1	8
X3 26	MULTIF2	8
X3 27	MULTIF3	8
X3 28	MULTIF4	8
X3 29	MULTIF5	8
X3 30	SCIEXTRXD	4,6,8
X3 31	SCIEXTTXD	4,6,8
X3 32	SCIEXTSCLK	4,6,8
X3 33	SEROUT	7
X3 34	SERIN	7
X3 35		
X3 36		
X3 37		
X3 38		
X3 39		
X3 40		
X3 41	EXTMODOUT2	4
X3 42	EXTMODIN2	4
X3 43	EXTMODOUT1	4
X3 44	EXTMODIN1	4
X3 45	EXTIINOUT	4
X3 46	EXTQINOUT	4
X3 47		
X3 48	EXTAIINP	6
X3 49	EXTAQINP	6
X3 50		

AFGEN

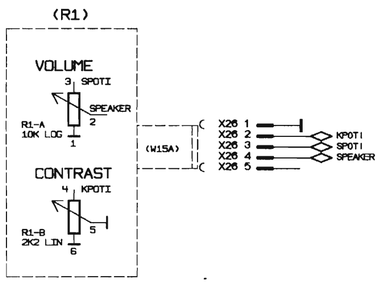


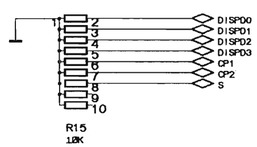
ON SHEET: 8, 8

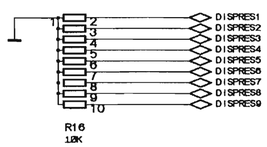
AFVOLTM



ON SHEET: 8, 8







* = NOT FITTED

IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03	50681	1 . 95	GL

1CMK	TAG	NAME
BEARB.		GL
GEPR.		GL
NORM		
PLOTT	16.12.94	

ROHDE&SCHWARZ
ZU GERAET CMD

BENENNUNG
MOTHERBOARD
top sheet2

ZEICHN.-NR.
1051.2220.01S
BLATT-NR. 2
V. 11 BL.

REG.I.V. 1050.9008 ERSTE Z. 1050.9008

CONNECTOR DEFINITIONS

RF CONVERTER

COMPONENT/PIN	SIGNAL	ON SHEET
X11 A2	+5VREF	4,5,6,7,8,10,11
X11 A3	-15.3V	
X11 A4	+5.2V	
X11 A5	+5.2V	
X11 A6	+7.7V	
X11 A8	+15.3V	
X11 A9	+30V	
X11 A29	108 MHz (W1)	10
X11 A31	20MHZ	4,5,6,7,8,10,11
X11 B2	DIAGNOSE	2,5,7,10,11
X11 B15	SERBCLK	2,4,5,6,7,10,11
X11 B17	SERBDATA	2,4,5,6,7,10,11
X11 B19	SERBINT	2,4,5,6,7,10,11
X11 B21	SERBSYNC	4,5,6,7,10,11
X11 B23	BRESETDRV	2,4,5,7,10,11

RF SYNTHESIZER

COMPONENT/PIN	SIGNAL	ON SHEET
X31 A2	+5VREF	4,5,6,7,8,10,11
X31 A4	-15.3V	
X31 A5	+5.2V	
X31 A6	+5.2V	
X31 A7	+7.7V	
X31 A8	+15.3V	
X31 A9	+30V	
X31 A17	FREFOUT1	9
X31 A19	FREFIN	9
X31 A23	2MHZ	2,5
X31 A25	ABISSYNCIN	5
X31 A27	ABISSYNCOUT	5
X31 A29	108MHZ	10
X31 A31	20MHZ	4,5,6,7,8,10,11
X31 B2	DIAGNOSE	2,5,7,10,11
X31 B4	-15.3V	
X31 B6	+5.2V	
X31 B7	+5.2V	
X31 B9	+7.7V	
X31 B11	+15.3V	
X31 B13	+12VSTANDBY	2,9
X31 B15	SERBCLK	2,4,5,6,7,10,11
X31 B17	SERBDATA	2,4,5,6,7,10,11
X31 B19	SERBINT	2,4,5,6,7,10,11
X31 B21	SERBSYNC	4,5,6,7,10,11
X31 B23	BRESETDRV	2,4,5,7,10,11
X31 C2	TXPOWER	11
X31 C11	LEVCLK	4,10
X31 C13	LEVDATA	4,10
X31 C15	PRISYNTHCLK	4,10
X31 C17	PRISYNTHDATA	4,10
X31 C19	PRISYNTHENTX	4
X31 C21	PRILEVENTX	4
X31 C23	PRITXI	4
X31 C24	PRITXIGND	4
X31 C25	PRITXQ	4

03/01		1 . 97	GL	1CMK	TAG	NAME	BENENNUNG
				BEARB.		GL	MOTHERBOARD
				GEPR.		GL	
				NORM			top sheet3
				PLOTT	24.01.97		ZEICHN.-NR. 1051.2220.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			BLATT-NR. 3 V. 11 BL.
				ZU GERAET CMD			REG.I.V. 1050.9008 ERSTE Z. 1050.9008

CONNECTOR DEFINITIONS

FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

LINK HANDLER

COMPONENT/PIN	SIGNAL	ON SHEET
X41 A1	+5VREF	3,5,6,7,8,10,11
X41 A2		
X41 A3		
X41 A4	-15.3V	
X41 A5		
X41 A6	+5.2V	
X41 A7	+5.2V	
X41 A8		
X41 A9	+7.7V	
X41 A10		
X41 A11	+15.3V	
X41 A12		
X41 A13		
X41 A14		
X41 A15	PRSYNTHCLK	3,10
X41 A16	PRSYNTHDATA	3,10
X41 A17	PRSYNTHENRX	10
X41 A18	PRSYNTHENTX	3
X41 A19	SYNTHENRES1	N.C.
X41 A20	PRLEVENTX	3
X41 A21	PRIT0	3
X41 A22	PRIT00	3
X41 A23	PRIT00GND	3
X41 A24	SECSYNTHCLK	10
X41 A25	SECSYNTHDATA	10
X41 A26	SECSYNTHENTX	10
X41 A27	SYNTHENRES2	N.C.
X41 A28	SYNTHENRES3	N.C.
X41 A29	SECLEVENTX	10
X41 A30	SECT10	10
X41 A31	SECT10	10
X41 A32	SECT10GND	10
X41 B1	LEVCLK	3,10
X41 B2	LEVDATA	3,10
X41 B3		
X41 B4		
X41 B5		
X41 B6	+5.2V	
X41 B7	+5.2V	
X41 B8		
X41 B9	AFGENMON	2,8
X41 B10	HANDSETIN	2
X41 B11	HANDSETOUT	2,8
X41 B12		
X41 B13	TBUSRXFRMOUT	2,5,6,7,8
X41 B14	TBUSAFRAMEREF	2,5,6,7,8
X41 B15	SERBCLK	2,3,5,6,7,10,11
X41 B16		
X41 B17	SERBDATA	2,3,5,6,7,10,11
X41 B18		
X41 B19		
X41 B20	SERBINT	2,3,5,6,7,10,11
X41 B21		
X41 B22	SERBSYNC	3,5,6,7,10,11
X41 B23		
X41 B24	BRESETDRV	2,3,5,7,10,11
X41 B25	XSPITXDATA	6
X41 B26	BSPIRXDATA	6
X41 B27	BSPITXCLK	6
X41 B28	XSPIRXCLK	6
X41 B29	XSPITXRDY	6
X41 B30	BSPISF1	6
X41 B31	XSPISP	6
X41 B32	BSPITXSFM	6
	PRSPITAF	6

COMPONENT/PIN	SIGNAL	ON SHEET
X41 C1	SERV0	11
X41 C2	SERV1	11
X41 C3	SERV2	11
X41 C4	SERV3	11
X41 C5	SERV4	11
X41 C6	SERV5	11
X41 C7	SERV6	11
X41 C8	SERV7	11
X41 C9	SERV8	11
X41 C10		
X41 C11		
X41 C12		
X41 C13	ID0	6
X41 C14	ID1	6
X41 C15	ID2	6
X41 C16	ID3	6
X41 C17	ID4	6
X41 C18	ID5	6
X41 C19	ID6	6
X41 C20	ID7	6
X41 C21		
X41 C22	QD0	6
X41 C23	QD1	6
X41 C24	QD2	6
X41 C25	QD3	6
X41 C26	QD4	6
X41 C27	QD5	6
X41 C28	QD6	6
X41 C29	QD7	6
X41 C30	IQCLK	6
X41 C31		
X41 C32	20MHZ	3,5,6,7,8,10,11

LINK HANDLER

COMPONENT/PIN	SIGNAL	ON SHEET
X42 A1		
X42 A2		
X42 A3		
X42 A4	SD0	5,6,7,8
X42 A5	SD1	5,6,7,8
X42 A6	SD2	5,6,7,8
X42 A7	SD3	5,6,7,8
X42 A8	SD4	5,6,7,8
X42 A9	SD5	5,6,7,8
X42 A10	SD6	5,6,7,8
X42 A11	SD7	5,6,7,8
X42 A12		
X42 A13		
X42 A14		
X42 A15		
X42 A16		
X42 A17		
X42 A18		
X42 A19		
X42 A20		
X42 A21		
X42 A22		
X42 A23	IOW	5,6,7,8
X42 A24	IOR	5,6,7,8
X42 A25	SMEMR	5,7,8
X42 A26	SMEMWR	5,7,8
X42 A27		
X42 A28		
X42 A29	SCIEXTRXD	2,8,8
X42 A30	SCIEXTTXD	2,8,8
X42 A31	SCIEXTSCLK	2,8,8
X42 A32	NETCLK	6
X42 B1	SA0	5,6,7,8
X42 B2	SA1	5,6,7,8
X42 B3	SA2	5,6,7,8
X42 B4	SA3	5,6,7,8
X42 B5	SA4	5,7,8
X42 B6	SA5	5,7,8
X42 B7	SA6	5,7,8
X42 B8	SA7	5,7,8
X42 B9	SA8	5,7,8
X42 B10	SA9	5,7,8
X42 B11	SA10	5,7,8
X42 B12	RESETDSP	5,6,7
X42 B13		
X42 B14		
X42 B15		
X42 B16		
X42 B17		
X42 B18		
X42 B19		
X42 B20		
X42 B21	EXTMODOUT2	2
X42 B22		
X42 B23	EXTMODIN2	2
X42 B24		
X42 B25	EXTMODOUT1	2
X42 B26		
X42 B27	EXTMODIN1	2
X42 B28		
X42 B29	EXTINOUT	2
X42 B30		
X42 B31	EXTQINOUT	2
X42 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X42 C1	IFLH10.7MHZ	10
X42 C2		
X42 C3		
X42 C4	DIGMOD0	11
X42 C5	DIGMOD1	11
X42 C6	DIGMOD2	11
X42 C7	DIGMOD3	11
X42 C8	DIGMOD4	11
X42 C9	DIGMOD5	11
X42 C10	DIGMOD6	11
X42 C11		
X42 C12	DIGMOD7	11
X42 C13	DIGMOD8	11
X42 C14	DIGMOD9	11
X42 C15	DIGMOD10	11
X42 C16	DIGMOD11	11
X42 C17	DIGMOD12	11
X42 C18	DIGMOD13	11
X42 C19		
X42 C20	TBUSRES1	2,5,6,7,8,10,11
X42 C21	TBUSRES2	2,5,6,7,8,10,11
X42 C22	TBUSRES3	2,5,6,7,8,10,11
X42 C23	TBUSRES4	2,5,6,7,8,10,11
X42 C24	TBUSRES5	2,5,6,7,8,10,11
X42 C25	TBUSSIGINT	2,5,6,7
X42 C26	TBUSPOWERINT	2,5,6,7,11
X42 C27		
X42 C28	CSDPRAM	5,7
X42 C29	CSUHCONTROL	5,7
X42 C30	LHDRIVENABLE	5,7
X42 C31	DRIVDIR	5,7
X42 C32	LHINT	5,7

R10 1K: 1 SD8, 2 SD7, 3 SD6, 4 SD5, 5 SD4, 6 SD3, 7 SD2, 8 SD1, 9 SD0, 10

R11 10K *: 1 SA1, 2 SA0, 3 SD15, 4 SD14, 5 SD13, 6 SD12, 7 SD11, 8 SD10, 9 SD9, 10

R12 10K *: 1 SA10, 2 SA9, 3 SA8, 4 SA7, 5 SA6, 6 SA5, 7 SA4, 8 SA3, 9 SA2, 10

R13 10K *: 1 SA19, 2 SA18, 3 SA17, 4 SA16, 5 SA15, 6 SA14, 7 SA13, 8 SA12, 9 SA11, 10

R14 10K *: 1 RESETDRV, 2 BALE, 3 AEN, 4 SMEMWR, 5 SMEMR, 6 IOR, 7 IOW, 8, 9, 10

* = NOT FITTED

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03.02			

1CMK	DATUM	NAME	BENENNUNG
BEARB.		GL	MOTHERBOARD
GEPR.		GL	
NORM			
PLOTT	97-11-20	GROLL	TOP/TOP.4

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2220.01 S

BLATT-NR. 4 + AA

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01

CONNECTOR DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET
ABIS/ SECOND LH		
X51 A1	+5VREF	3,4,6,7,8,10,11
X51 A2	+5VREF	
X51 A3	+5VREF	
X51 A4	-15.3V	
X51 A5		
X51 A6	+5.2V	
X51 A7	+5.2V	
X51 A8	+12V	
X51 A9	+7.7V	
X51 A10		
X51 A11	+15.3V	
X51 A12		
X51 A13	+30V	
X51 A14		
X51 A15		
X51 A16		
X51 A17		
X51 A18		
X51 A19		
X51 A20		
X51 A21		
X51 A22		
X51 A23		
X51 A24		
X51 A25		
X51 A26		
X51 A27		
X51 A28		
X51 A29		
X51 A30		
X51 A31		
X51 A32		
X51 B1		
X51 B2	DIAGNOSE	2,3,7,10,11
X51 B3		
X51 B4		
X51 B5		
X51 B6	ABISRX	9
X51 B7		
X51 B8	ABISTX	9
X51 B9		
X51 B10	ABISRXSIMA	9
X51 B11	ABISRXSIMB	9
X51 B12	ABISTXSIMA	9
X51 B13	ABISTXSIMB	9
X51 B14		
X51 B15	SERBCLK	2,3,4,6,7,10,11
X51 B16		
X51 B17	SERBDATA	2,3,4,6,7,10,11
X51 B18		
X51 B19	SERBINT	2,3,4,6,7,10,11
X51 B20		
X51 B21	SERBSYNC	2,3,4,6,7,10,11
X51 B22		
X51 B23	BRESETDRV	2,3,4,7,10,11
X51 B24		
X51 B25		
X51 B26		
X51 B27	2MHZ	2,3
X51 B28		
X51 B29	ABISSYNCIN	3
X51 B30		
X51 B31	ABISSYNCOUT	3
X51 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X51 C1		
X51 C2		
X51 C3		
X51 C4		
X51 C5		
X51 C6		
X51 C7		
X51 C8		
X51 C9		
X51 C10		
X51 C11		
X51 C12		
X51 C13		
X51 C14		
X51 C15		
X51 C16		
X51 C17		
X51 C18		
X51 C19		
X51 C20		
X51 C21		
X51 C22		
X51 C23		
X51 C24		
X51 C25		
X51 C26		
X51 C27		
X51 C28		
X51 C29		
X51 C30		
X51 C31		
X51 C32	20MHZ	3,4,6,7,8,10,11

COMPONENT/PIN	SIGNAL	ON SHEET
ABIS/ SECOND LH		
X52 A1		
X52 A2	SYSCLK	7,8
X52 A3	OSC	7,8
X52 A4	SD0	4,6,7,8
X52 A5	SD1	4,6,7,8
X52 A6	SD2	4,6,7,8
X52 A7	SD3	4,6,7,8
X52 A8	SD4	4,6,7,8
X52 A9	SD5	4,6,7,8
X52 A10	SD6	4,6,7,8
X52 A11	SD7	4,6,7,8
X52 A12	SD8	4,7,8
X52 A13	SD9	4,7,8
X52 A14	SD10	4,7,8
X52 A15	SD11	4,7,8
X52 A16	SD12	4,7,8
X52 A17	SD13	4,7,8
X52 A18	SD14	4,7,8
X52 A19	SD15	4,7,8
X52 A20	IOCHRDY	7,8
X52 A21	AEN	4,7,8
X52 A22	RESETDRV	4,7,8
X52 A23	IOW	4,6,7,8
X52 A24	IOR	4,6,7,8
X52 A25	SMEMR	4,7,8
X52 A26	SMEMWR	4,7,8
X52 A27	BALE	4,7,8
X52 A28	IOCS16	7,8
X52 A29	TC	7,8
X52 A30	SBHE	7,8
X52 A31	REFRESH	7,8
X52 A32	MASTER	7,8
X52 B1	SA0	4,6,7,8
X52 B2	SA1	4,6,7,8
X52 B3	SA2	4,6,7,8
X52 B4	SA3	4,6,7,8
X52 B5	SA4	4,7,8
X52 B6	SA5	4,7,8
X52 B7	SA6	4,7,8
X52 B8	SA7	4,7,8
X52 B9	SA8	4,7,8
X52 B10	SA9	4,7,8
X52 B11	SA10	4,7,8
X52 B12	SA11	4,7,8
X52 B13	SA12	4,7,8
X52 B14	SA13	4,7,8
X52 B15	SA14	4,7,8
X52 B16	SA15	4,7,8
X52 B17	SA16	4,7,8
X52 B18	SA17	4,7,8
X52 B19	SA18	4,7,8
X52 B20	SA19	4,7,8
X52 B21	IRQ3	7,8
X52 B22	IRQ4	7,8
X52 B23	IRQ5	7,8
X52 B24	IRQ6	7,8
X52 B25	IRQ7	7,8
X52 B26	IRQ9	7,8
X52 B27	IRQ10	7,8
X52 B28	IRQ11	7,8
X52 B29	IRQ12	7
X52 B30	IRQ14	7,8
X52 B31	IRQ15	7,8
X52 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X52 C1		
X52 C2		
X52 C3		
X52 C4		
X52 C5		
X52 C6		
X52 C7		
X52 C8		
X52 C9		
X52 C10		
X52 C11		
X52 C12		
X52 C13		
X52 C14		
X52 C15		
X52 C16		
X52 C17	TBUSRXFRMOUT	2,4,6,7,8
X52 C18	TBUSAFRAMEREF	2,4,6,7,8
X52 C19	TBUSRES1	2,4,6,7,8,10,11
X52 C20	TBUSRES2	2,4,6,7,8,10,11
X52 C21	TBUSRES3	2,4,6,7,8,10,11
X52 C22	TBUSRES4	2,4,6,7,8,10,11
X52 C23	TBUSRES5	2,4,6,7,8,10,11
X52 C24	TBUSSIGINT	2,4,6,7
X52 C25	TBUSPOWERINT	2,4,6,7,11
X52 C26	RESETDSP	4,6,7
X52 C27	CSDPRAM	4,7
X52 C28	CSLHCONTROL	4,7
X52 C29	LHDRVENABLE	4,7
X52 C30	DRVDIR	4,7
X52 C31	LHINT	4,7
X52 C32		

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03	50681	1 . 95	GL

	TAG	NAME
1CMK		
BEARB.		GL
GEPR.		GL
NORM		
PLOTT	16.12.94	

ROHDE&SCHWARZ
ZU GERAET CMD

BENENNUNG
MOTHERBOARD

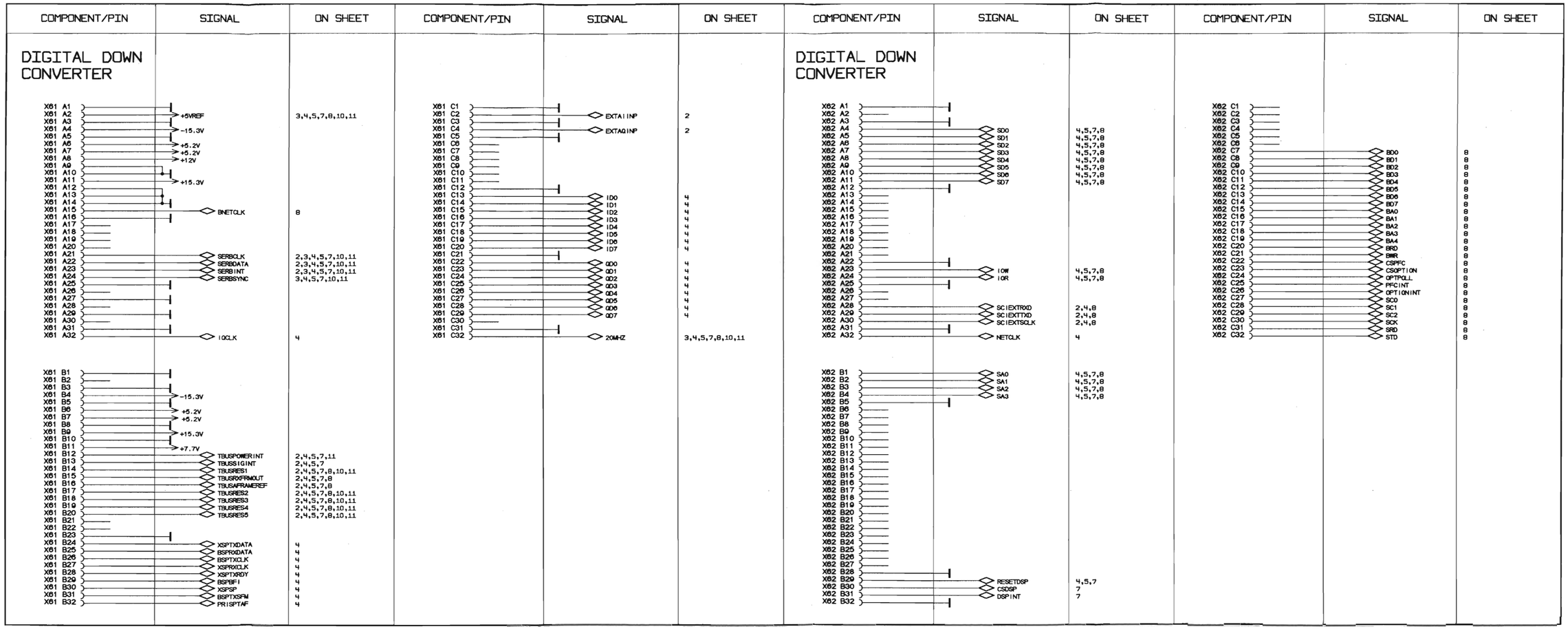
top sheet5

ZEICHN.-NR.
1051.2220.01S

BLATT-NR. 5
V. 11 BL.

REG.I.V. 1050.9008
ERSETZT 1050.9008

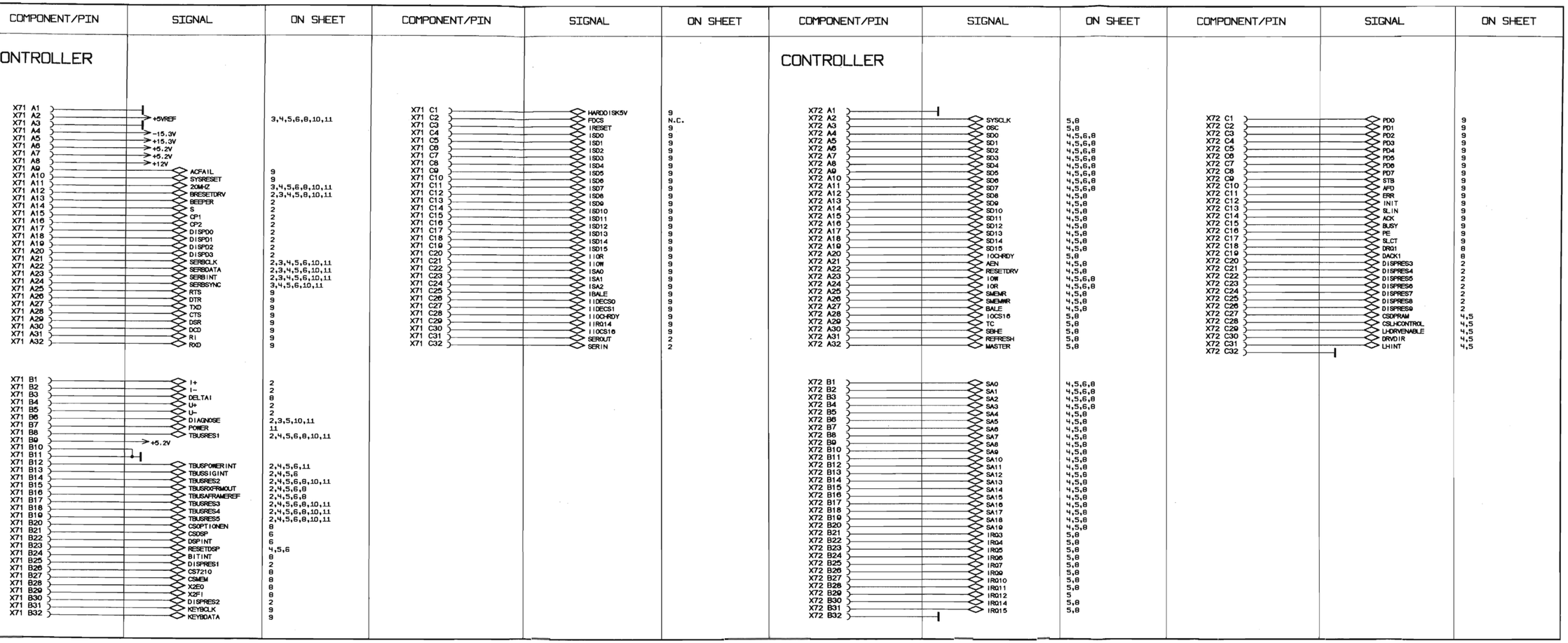
CONNECTOR DEFINITIONS



FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

03	50681	1 . 95	GL	1CMK	TAG	NAME	BENENNUNG				
				BEARB.		GL	MOTHERBOARD				
				GEPR.		GL					
				NORM							
				PLOTT	16.12.94		top			sheet6	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2220.01S			BLATT-NR. 6	v. 11 Bl.
				ZU GERAET CMD			REG.I.V. 1050.9008		ERSTE Z. 1050.9008		

CONNECTOR DEFINITIONS



03	50681	1.95	GL	1CMK	TAG	NAME	BENENNUNG	
				BEARB.		GL	MOTHERBOARD	
				GEPR.		GL		
				NORM			top	sheet7
				PLOTT	16.12.94		ZEICHN.-NR.	BLATT-NR.
							1051.2220.01S	7
								v. 11 BL.
SEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			REG.I.-V. 1050.9008	ERSTE Z. 1050.9008
				ZU GERAET CMD				

CONNECTOR DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET
OPTION BASIC BOARD		
X81 A1		
X81 A2	+5VREF	3,4,5,6,7,10,11
X81 A3		
X81 A4	-15.3V	
X81 A5		
X81 A6	+5.2V	
X81 A7	+5.2V	
X81 A8	+12V	
X81 A9	+7.7V	
X81 A10		
X81 A11	+15.3V	
X81 A12		
X81 A13	+30V	
X81 A14		
X81 A15	BNETCLK	6
X81 A16		
X81 A17		
X81 A18	BITINT	7
X81 A19		
X81 A20	CS7210	7
X81 A21	CSMEM	7
X81 A22	X2E0	7
X81 A23	X2F1	7
X81 A24	CSOPTIONEN	7
X81 A25		
X81 A26	MULTIF0	2
X81 A27	MULTIF1	2
X81 A28	MULTIF2	2
X81 A29	MULTIF3	2
X81 A30	MULTIF4	2
X81 A31	MULTIF5	2
X81 A32	20MHZ	3,4,5,6,7,10,11
X81 B1		
X81 B2	BICLK	2
X81 B3	BIDATA	2
X81 B4	BIFRAME	2
X81 B5		
X81 B6	AFGEN	2
X81 B7	AFGENGND	2
X81 B8	AFVOLT	2
X81 B9	AFVOLTGND	2
X81 B10	HANDSETOUT	2,4
X81 B11	AFVOLTMON	2
X81 B12	AFGENMON	2,4
X81 B13	DELTAI	7
X81 B14		
X81 B15	SCIEXTRXD	2,4,6
X81 B16	SCIEXTTXD	2,4,6
X81 B17	SCIEXTSCLK	2,4,6
X81 B18	DR01	7
X81 B19	DACK1	7
X81 B20		
X81 B21	XSTRB	2
X81 B22	MEMA0	2
X81 B23	MEMA1	2
X81 B24	MEMA2	2
X81 B25	MEMA3	2
X81 B26	MEMA4	2
X81 B27	MEMA5	2
X81 B28	MEMA6	2
X81 B29	MEMA7	2
X81 B30	SEL0	2
X81 B31	SEL1	2
X81 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X81 C1	CD0	2
X81 C2	CD1	2
X81 C3	CTYP0	2
X81 C4	CTYP1	2
X81 C5	HIADR	2
X81 C6	REG	2
X81 C7	BVD1	2
X81 C8	BVD2	2
X81 C9	WP	2
X81 C10	RDY	2
X81 C11	VPP	2
X81 C12	VPP	2
X81 C13	CDCS	2
X81 C14	TORB	2
X81 C15	TOWB	2
X81 C16	D0	2
X81 C17	D1	2
X81 C18	D2	2
X81 C19	D3	2
X81 C20	D4	2
X81 C21	D5	2
X81 C22	D6	2
X81 C23	D7	2
X81 C24	D8	2
X81 C25	D9	2
X81 C26	D10	2
X81 C27	D11	2
X81 C28	D12	2
X81 C29	D13	2
X81 C30	D14	2
X81 C31	D15	2
X81 C32		

COMPONENT/PIN	SIGNAL	ON SHEET
OPTION BASIC BOARD		
X82 A1		
X82 A2	SYSCLK	5,7
X82 A3	OSC	5,7
X82 A4	SD0	4,5,6,7
X82 A5	SD1	4,5,6,7
X82 A6	SD2	4,5,6,7
X82 A7	SD3	4,5,6,7
X82 A8	SD4	4,5,6,7
X82 A9	SD5	4,5,6,7
X82 A10	SD6	4,5,6,7
X82 A11	SD7	4,5,6,7
X82 A12	SD8	4,5,7
X82 A13	SD9	4,5,7
X82 A14	SD10	4,5,7
X82 A15	SD11	4,5,7
X82 A16	SD12	4,5,7
X82 A17	SD13	4,5,7
X82 A18	SD14	4,5,7
X82 A19	SD15	4,5,7
X82 A20	IOCHRDY	5,7
X82 A21	AEN	4,5,7
X82 A22	RESETDRV	4,5,7
X82 A23	IOR	4,5,6,7
X82 A24	IOR	4,5,6,7
X82 A25	SMEMR	4,5,7
X82 A26	SMEMR	4,5,7
X82 A27	BALE	4,5,7
X82 A28	IOCS16	5,7
X82 A29	TC	5,7
X82 A30	SBHE	5,7
X82 A31	REFRESH	5,7
X82 A32	MASTER	5,7
X82 B1	SA0	4,5,6,7
X82 B2	SA1	4,5,6,7
X82 B3	SA2	4,5,6,7
X82 B4	SA3	4,5,6,7
X82 B5	SA4	4,5,7
X82 B6	SA5	4,5,7
X82 B7	SA6	4,5,7
X82 B8	SA7	4,5,7
X82 B9	SA8	4,5,7
X82 B10	SA9	4,5,7
X82 B11	SA10	4,5,7
X82 B12	SA11	4,5,7
X82 B13	SA12	4,5,7
X82 B14	SA13	4,5,7
X82 B15	SA14	4,5,7
X82 B16	SA15	4,5,7
X82 B17	SA16	4,5,7
X82 B18	SA17	4,5,7
X82 B19	SA18	4,5,7
X82 B20	SA19	4,5,7
X82 B21	IR03	5,7
X82 B22	IR04	5,7
X82 B23	IR05	5,7
X82 B24	IR06	5,7
X82 B25	IR07	5,7
X82 B26	IR09	5,7
X82 B27	IR010	5,7
X82 B28	IR011	5,7
X82 B29	TBUSRES1	2,4,5,6,7,10,11
X82 B30	IR014	5,7
X82 B31	IR015	5,7
X82 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X82 C1	TBUSRES2	2,4,5,6,7,10,11
X82 C2	TBUSRES3	2,4,5,6,7,10,11
X82 C3	TBUSRES4	2,4,5,6,7,10,11
X82 C4	TBUSRES5	2,4,5,6,7,10,11
X82 C5	TBUSRXFRMOUT	2,4,5,6,7
X82 C6	TBUSXFRAMEREF	2,4,5,6,7
X82 C7	BD0	6
X82 C8	BD1	6
X82 C9	BD2	6
X82 C10	BD3	6
X82 C11	BD4	6
X82 C12	BD5	6
X82 C13	BD6	6
X82 C14	BD7	6
X82 C15	BA0	6
X82 C16	BA1	6
X82 C17	BA2	6
X82 C18	BA3	6
X82 C19	BA4	6
X82 C20	BRD	6
X82 C21	BWR	6
X82 C22	CSPFC	6
X82 C23	CSOPTION	6
X82 C24	OPTPOLL	6
X82 C25	PFCINT	6
X82 C26	OPTIONINT	6
X82 C27	SC0	6
X82 C28	SC1	6
X82 C29	SC2	6
X82 C30	SCK	6
X82 C31	SRD	6
X82 C32	STD	6

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

03	50681	1.95	GL	1CMK	TAG	NAME	BENENNUNG				
				BEARB.		GL	MOTHERBOARD				
				GEPR.		GL					
				NORM							
				PLOTT	16.12.94		top			sheet8	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2220.01S			BLATT-NR. 8	v. 11 BL.
				ZU GERAET CMD			REG.I.V. 1050.9008		ERSTE Z. 1050.9008		

CONNECTOR DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET
FREFIN		
X6 SMB 1 2 3 4 5	FREFIN	3
FREFOUT1		
X7 SMB 1 2 3 4 5	FREFOUT1	3
IF10.7MHZ		
X5 SMB 1 2 3 4 5	IF10.7MHZ	10
ABISRX		
X17 SMB 1 2 3 4 5	ABISRX	5
ABISTX		
X16 SMB 1 2 3 4 5	ABISTX	5
OPTREFFR		
X22 2 X22 1	OPTREFFR	2
OPTRES1		
X23 2 X23 1	OPTRES1	2
OPTRES2		
X27 2 X27 1	OPTRES2	2
OPTRES3		
X28 2 X28 1	OPTRES3	2

COMPONENT/PIN	SIGNAL	ON SHEET
HARDDISK		
X14 1	HARDDISK5V	7
X14 2		
X14 3		
X14 4		
X14 5		
X14 6		
X14 7	IRESET	7
X14 8		
X14 9	ISD7	7
X14 10	ISD8	7
X14 11	ISD6	7
X14 12	ISD9	7
X14 13	ISD5	7
X14 14	ISD10	7
X14 15	ISD4	7
X14 16	ISD11	7
X14 17	ISD3	7
X14 18	ISD12	7
X14 19	ISD2	7
X14 20	ISD13	7
X14 21	ISD1	7
X14 22	ISD14	7
X14 23	ISD0	7
X14 24	ISD15	7
X14 25		
X14 26		
X14 27		
X14 28		
X14 29	IIOW	7
X14 30		
X14 31	IIOR	7
X14 32		
X14 33		
X14 34	IBALE	7
X14 35	IIOCHRDY	7
X14 36		
X14 37	IIRQ14	7
X14 38	IIOCS16	7
X14 39	ISA1	7
X14 40		
X14 41	ISA0	7
X14 42	ISA2	7
X14 43	IIDECS0	7
X14 44	IIDECS1	7
X14 45		
X14 46		
X14 47	HARDDISK5V	7
X14 48		
X14 49		
X14 50		

COMPONENT/PIN	SIGNAL	ON SHEET
REAR PANEL BOARD		
X4 A1	DCD	7
X4 A2	RXD	7
X4 A3	TXD	7
X4 A4	DTR	7
X4 A5		
X4 A6	DSR	7
X4 A7	RTS	7
X4 A8	CTS	7
X4 A9	RI	7
X4 A10		
X4 A11		
X4 A12		
X4 A13	+5.2V	
X4 A14	KEYBDATA	7
X4 A15		
X4 A16	KEYBCLK	7
X4 B1		
X4 B2	ABISRXSIMA	5
X4 B3	ABISRXSIMB	5
X4 B4		
X4 B5	ABISTXSIMA	5
X4 B6	ABISTXSIMB	5
X4 B7		
X4 B8		
X4 B9		
X4 B10		
X4 B11		
X4 B12		
X4 B13		
X4 B14		
X4 B15		
X4 B16	SL.IN	7
X4 C1	STB	7
X4 C2	PD0	7
X4 C3	PD1	7
X4 C4	PD2	7
X4 C5	PD3	7
X4 C6	PD4	7
X4 C7	PD5	7
X4 C8	PD6	7
X4 C9	PD7	7
X4 C10	ACK	7
X4 C11	BUSY	7
X4 C12	PE	7
X4 C13	SLCT	7
X4 C14	AFD	7
X4 C15	ERR	7
X4 C16	INIT	7

COMPONENT/PIN	SIGNAL	ON SHEET
POWER SUPPLY		
X91 1		
X91 2		
X91 3	+15.3V	
X91 4		
X91 5	+7.7V	
X91 6		
X91 7		
X91 8		
X91 9	+5.2V	
X91 10		
X91 11		
X91 12	-15.3V	
X91 13		
X91 14		
X91 15		
X91 16		
X91 17	STANDBYON	2
X91 18	+30V	
X91 19	+15.3V	
X91 20		
X91 21		
X91 22	+7.7V	
X91 23		
X91 24		
X91 25	+5.2V	
X91 26		
X91 27		
X91 28	-15.3V	
X91 29		
X91 30	+12V	
X91 31	+12VSTANDBY	2,3
X91 32		
X91 33	SYSRESET	7
X91 34	TEST2	N.C.
X91 35	TEST1	N.C.
X91 36		
X91 37	+15.3V	
X91 38		
X91 39	+7.7V	
X91 40		
X91 41		
X91 42	+5.2V	
X91 43		
X91 44		
X91 45		
X91 46		
X91 47	+12V	
X91 48	-30V	
X91 49	TSENSE	
X91 50	ACFAIL	7
BLOWER		
X25 1	TSENSE	11
X25 2	TSENSE1	
X25 3		
X15 1		
X15 2		
X15 3		
X15 4	+12V	

* = NOT FITTED

03	50681	1.95	GL	1CMK	TAG	NAME
				BEARB.		GL
				GEPR.		GL
				NORM		
				PLOTT	16.12.94	
AEND. IND.	AENDERLUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ		
				ZU GERAET CMD		

BENENNUNG
MOTHERBOARD
top sheet9

ZEICHN.-NR.
1051.2220.01S
BLATT-NR. 9 v. 11 BL.

REG.I.V. 1050.9008 ERSTE Z. 1050.9008

R&S Visula

CONNECTOR DEFINITIONS

COMPONENT/PIN	SIGNAL	ON SHEET
2ND RF SYNTHESIZER		
X10 A1		
X10 A2	+5VREF	3,4,5,6,7,8,11
X10 A3		
X10 A4	-15.3V	
X10 A5		
X10 A6	+5.2V	
X10 A7	+5.2V	
X10 A8		
X10 A9	+7.7V	
X10 A10		
X10 A11	+15.3V	
X10 A12		
X10 A13	+30V	
X10 A14		
X10 A15	108MHZ	3
X10 A16	R1 51R1 (MOD.02) * (MOD.04) W1	
X10 B1		
X10 B2	DIAGNOSE	2,3,5,7,11
X10 B3		
X10 B4		
X10 B5		
X10 B6	SERBCLK	2,3,4,5,6,7,11
X10 B7	SERBDATA	2,3,4,5,6,7,11
X10 B8		
X10 B9	SERBINT	2,3,4,5,6,7,11
X10 B10		
X10 B11	SERBSYNC	3,4,5,6,7,11
X10 B12		
X10 B13	BRESETDRV	2,3,4,5,7,11
X10 B14		
X10 B15	20MHZ	3,4,5,6,7,8,11
X10 B16		
X10 C1	TBUSRES1	2,4,5,6,7,8,11
X10 C2		
X10 C3	LEVCLK	3,4
X10 C4	LEVDATA	3,4
X10 C5		
X10 C6	SECSYNTHCLK	4
X10 C7	SECSYNTHDATA	4
X10 C8		
X10 C9	SECSYNTHENTX	4
X10 C10		
X10 C11	SECLEVENTX	4
X10 C12		
X10 C13	SECTXI	4
X10 C14	SECTXIOGND	4
X10 C15	SECTXQ	4
X10 C16		

COMPONENT/PIN	SIGNAL	ON SHEET
ANALOG DOWN CONVERTER		
X21 A1		
X21 A2	+5VREF	3,4,5,6,7,8,11
X21 A3		
X21 A4	-15.3V	
X21 A5		
X21 A6	+5.2V	
X21 A7	+5.2V	
X21 A8		
X21 A9	+7.7V	
X21 A10		
X21 A11	+15.3V	
X21 A12		
X21 A13	+30V	
X21 A14		
X21 A15		
X21 A16		
X21 A17		
X21 A18		
X21 A19		
X21 A20		
X21 A21		
X21 A22		
X21 A23	PRISYNTHCLK	3,4
X21 A24	PRISYNTHDATA	3,4
X21 A25	PRISYNTHENRX	4
X21 A26		
X21 A27		
X21 A28		
X21 A29	108MHZ	3
X21 A30		
X21 A31		
X21 A32		
X21 B1		
X21 B2	DIAGNOSE	2,3,5,7,11
X21 B3		
X21 B4	IFPOWER	11
X21 B5		
X21 B6	SERBCLK	2,3,4,5,6,7,11
X21 B7	SERBDATA	2,3,4,5,6,7,11
X21 B8		
X21 B9	SERBINT	2,3,4,5,6,7,11
X21 B10		
X21 B11	SERBSYNC	3,4,5,6,7,11
X21 B12		
X21 B13	BRESETDRV	2,3,4,5,7,11
X21 B14		
X21 B15		
X21 B16		
X21 B17		
X21 B18		
X21 B19		
X21 B20		
X21 B21		
X21 B22		
X21 B23		
X21 B24		
X21 B25		
X21 B26		
X21 B27		
X21 B28		
X21 B29		
X21 B30		
X21 B31		
X21 B32		

COMPONENT/PIN	SIGNAL	ON SHEET
X21 C1	TBUSRES1	2,4,5,6,7,8,11
X21 C2	TBUSRES2	2,4,5,6,7,8,11
X21 C3	TBUSRES3	2,4,5,6,7,8,11
X21 C4	TBUSRES4	2,4,5,6,7,8,11
X21 C5	TBUSRES5	2,4,5,6,7,8,11
X21 C6		
X21 C7	IFRES10.7MHZ	11
X21 C8		
X21 C9	IF10.7MHZ	9
X21 C10		
X21 C11	IFLH10.7MHZ	4
X21 C12		
X21 C13		
X21 C14		
X21 C15		
X21 C16		
X21 C17		
X21 C18		
X21 C19		
X21 C20		
X21 C21		
X21 C22		
X21 C23	TEST_VCO_VOLT	N.C.
X21 C24	TEST+29.3V	N.C.
X21 C25	TEST+14.3V	N.C.
X21 C26	TEST+7V	N.C.
X21 C27		N.C.
X21 C28	TEST-14.3V	N.C.
X21 C29		
X21 C30		
X21 C31		
X21 C32		

* = NICHT BESTUECKT / NOT FITTED

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

03/01		1 . 97	GL	1 CMK	TAG	NAME	BENENNUNG
				BEARB.		GL	MOTHERBOARD
				GEPR.		GL	
				NORM			top sheet10
				PLOTT	24.01.97		ZEICHN.-NR. 1051.2220.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			BLATT-NR. 10 V. 11 BL.
				ZU GERAET CMD			REG.I.v. 1050.9008 ERSTE Z. 1050.9008

CONNECTOR DEFINITIONS

RF FRONTEND

COMPONENT/PIN	SIGNAL	ON SHEET
X12 A1		
X12 A2	+5VREF	3,4,5,6,7,8,10
X12 A3		
X12 A4	-15.3V	
X12 A5		
X12 A6	+5.2V	
X12 A7	+5.2V	
X12 A8		
X12 A9	+7.7V	
X12 A10		
X12 A11	+15.3V	
X12 A12		
X12 A13	+30V	
X12 A14		
X12 A15		
X12 A16		
X12 B1		
X12 B2	DIAGNOSE	2,3,4,5,7,10
X12 B3		
X12 B4		
X12 B5		
X12 B6	SERBCLK	2,3,4,5,6,7,10
X12 B7	SERBDATA	2,3,4,5,6,7,10
X12 B8		
X12 B9	SERBINT	2,3,4,5,6,7,10
X12 B10		
X12 B11	SERBSYNC	3,4,5,6,7,10
X12 B12		
X12 B13	BRESETDRV	2,3,4,5,7,10
X12 B14		
X12 B15	TSENSE1	9
X12 B16		
X12 C1		
X12 C2	TBUSPOWERINT	2,4,5,6,7
X12 C3		
X12 C4	RES1POWER	N.C.
X12 C5		
X12 C6	POWER	7
X12 C7		
X12 C8	RES2POWER	N.C.
X12 C9		
X12 C10	IFPOWER	10
X12 C11		
X12 C12	TXPOWER	3
X12 C13		
X12 C14	TBUSRES1	2,4,5,6,7,8,10
X12 C15		
X12 C16		

SECOND RECEIVER

COMPONENT/PIN	SIGNAL	ON SHEET
X13 A1		
X13 A2	+5VREF	3,4,5,6,7,8,10
X13 A3		
X13 A4	-15.3V	
X13 A5		
X13 A6	+5.2V	
X13 A7	+5.2V	
X13 A8		
X13 A9	+7.7V	
X13 A10		
X13 A11	+15.3V	
X13 A12		
X13 A13	+30V	
X13 A14		
X13 A15	20MHZ	3,4,5,6,7,8,10
X13 A16		
X13 B1		
X13 B2	DIAGNOSE	2,3,4,5,7,10
X13 B3		
X13 B4		
X13 B5		
X13 B6	SERBCLK	2,3,4,5,6,7,10
X13 B7	SERBDATA	2,3,4,5,6,7,10
X13 B8		
X13 B9	SERBINT	2,3,4,5,6,7,10
X13 B10		
X13 B11	SERBSYNC	3,4,5,6,7,10
X13 B12		
X13 B13	BRESETDRV	2,3,4,5,7,10
X13 B14		
X13 B15		
X13 B16		
X13 C1	TBUSRES1	2,4,5,6,7,8,10
X13 C2	TBUSRES2	2,4,5,6,7,8,10
X13 C3	TBUSRES3	2,4,5,6,7,8,10
X13 C4	TBUSRES4	2,4,5,6,7,8,10
X13 C5	TBUSRES5	2,4,5,6,7,8,10
X13 C6		
X13 C7		
X13 C8		
X13 C9		
X13 C10		
X13 C11		
X13 C12		
X13 C13		
X13 C14		
X13 C15	IFRES10.7MHZ	10
X13 C16		

SERVICE INTERFACE

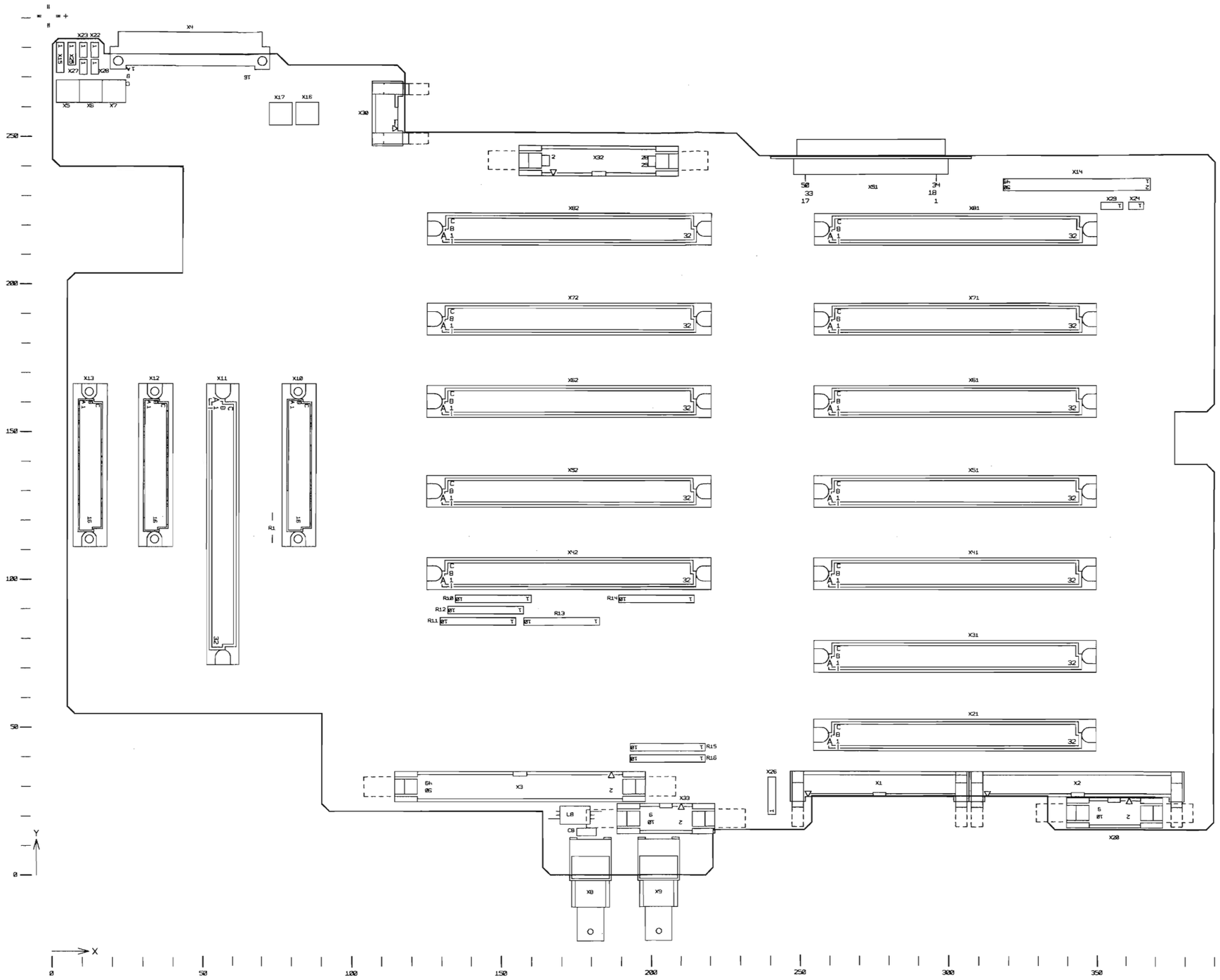
COMPONENT/PIN	SIGNAL	ON SHEET
X30 1	SERV0	4
X30 2	SERV1	4
X30 3	SERV2	4
X30 4	SERV3	4
X30 5	SERV4	4
X30 6	SERV5	4
X30 7	SERV6	4
X30 8	SERV7	4
X30 9	SERV8	4
X30 10		

DIG. MOD. INTERFACE

COMPONENT/PIN	SIGNAL	ON SHEET
X32 1	DIGMOD0	4
X32 2	DIGMOD1	4
X32 3	DIGMOD2	4
X32 4	DIGMOD3	4
X32 5	DIGMOD4	4
X32 6	DIGMOD5	4
X32 7	DIGMOD6	4
X32 8	DIGMOD7	4
X32 9	DIGMOD8	4
X32 10	DIGMOD9	4
X32 11	DIGMOD10	4
X32 12	DIGMOD11	4
X32 13	DIGMOD12	4
X32 14	DIGMOD13	4
X32 15		
X32 16		
X32 17		
X32 18		
X32 19		
X32 20		
X32 21		
X32 22		
X32 23		
X32 24		
X32 25		
X32 26		

FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

03	50681	1.95	GL	1CMK	TAG	NAME	BENENNUNG	
				BEARB.		GL	MOTHERBOARD	
				GEPR.		GL		
				NORM				
				PLOTT	16.12.94		top	sheet11
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2220.01S	BLATT-NR. 11
				ZU GERAET CMD			REG.I.V. 1050.9008	ERSTE Z. 1050.9008 V. 11 BL.



FUER DIESE SCHNITTSTELLE
BEHALTEN WIR UNS ALLE RECHTE VOR

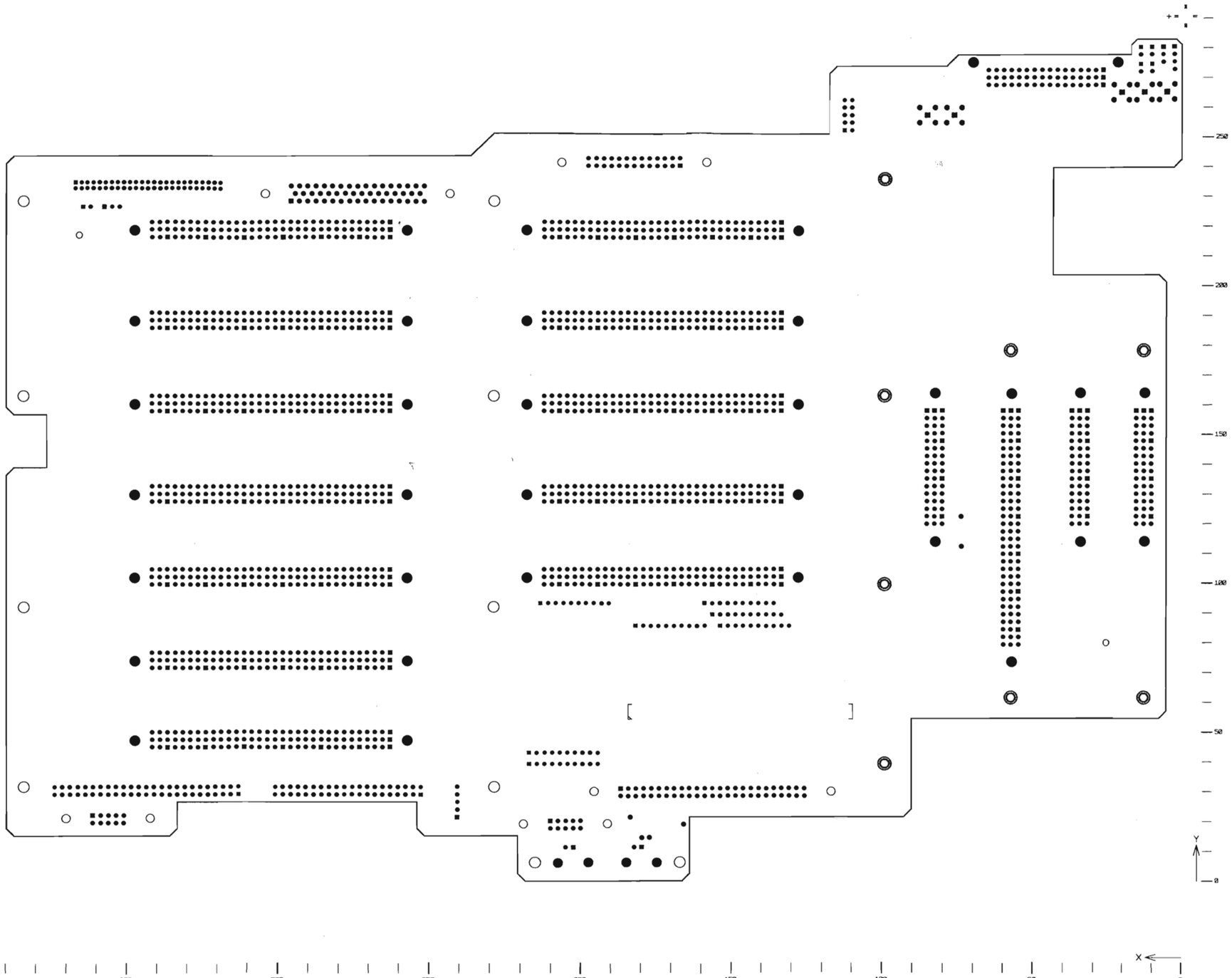
DARSTELLUNG SEITE B
VIEW ON SIDE B

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

EINBAUENDE ANGABEN UEBER VARIANTEN, TRIMMERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

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

DI	6681	T .. 95	GL	LGMK	TAG	NAME	BENENNUNG: MOTHERBOARD
				BEARB.		GL	
				GEPR.		GL	
				NORM			
				PLOTT	15.12.94		
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2220.01
				COMET GMD			BLATT-NR. 1+
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME				REG.I.v. 1050.9008 ERSTE z. 1050.9008



FÜR 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

BEINHALTE ANGABEN ÜBER VARIANTEN, TRIMMPUNKTE, BAUTEILWERTE UND NICHT BESTÜCKTE BAUTEILE SIEHE 5A.

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

IND.	ÄNDERUNGS-MITTEILUNG	DATUM	NAME
01	50681	5.95	GL

	TGMK	TAG	NAME
BEARB.			GL
GEPR.			GL
NORM			
PLOTT	15.12.94		

ZU GERÄT CMD

BENENNUNG
MOTHERBOARD

ROHDE&SCHWARZ

ZEICHN.-NR.
1051.2220.01

BLATT-NR. 2-
V. BL.

REG.I.v. 1050.9008 ERSETZ Z. 1050.9008

STROMLAUF GILT FUER VAR. 70/71/80/81/84/85
CIRCUIT DIAGRAM IS VALID FOR MOD. 70/71/80/81/84/85

ROHDE&SCHWARZ

CMD70/71/80/81/84/85
DIG. RADIOCOM. TESTER

1050.9008.01 S

13.10.98 EI

PLOT: 98-10-13 EICHFELD

ZUGERAET CMD

REG. I. V. 1050.9008

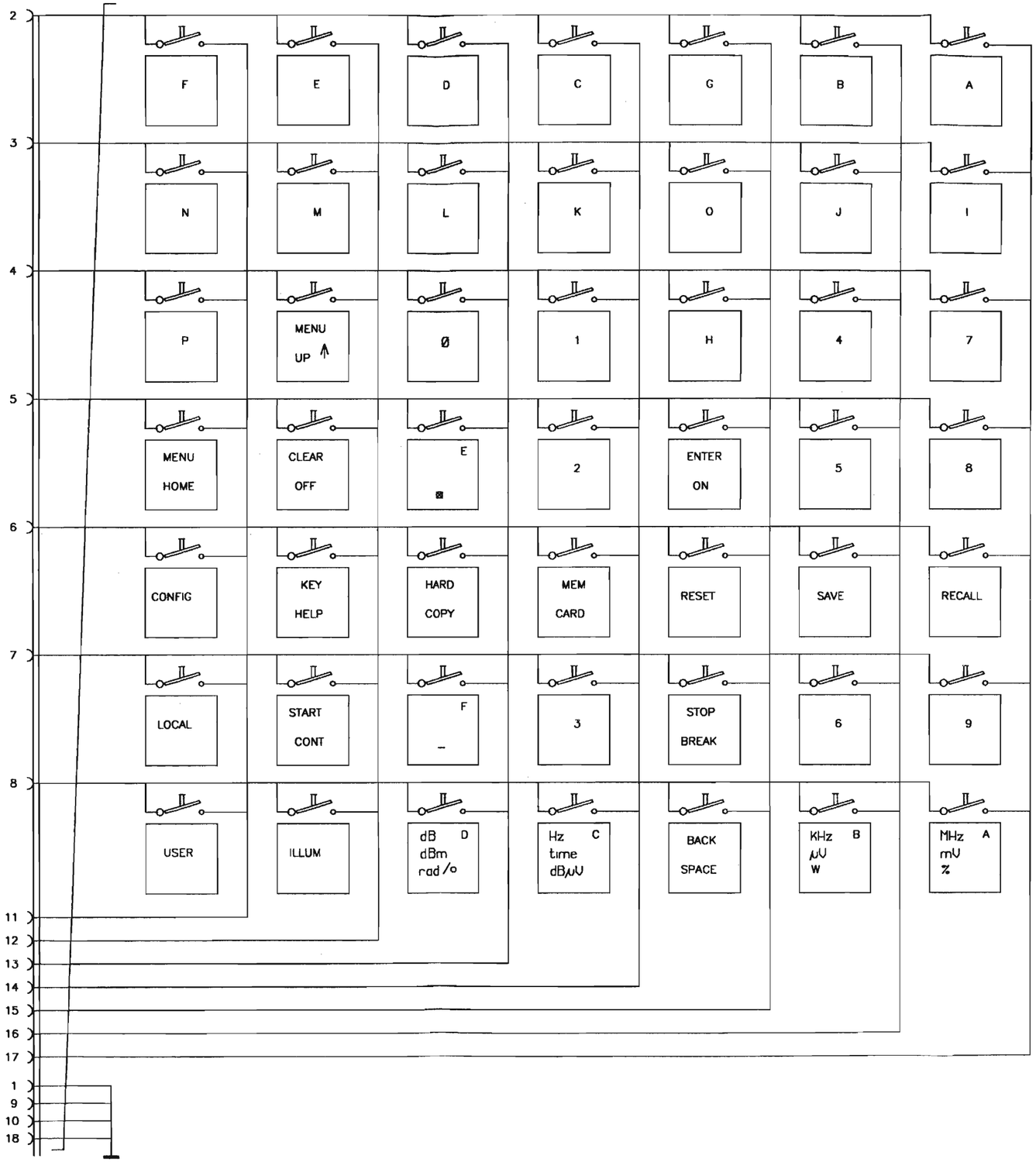
ERSTE Z. 1050.9008.01

BLATT-NR. 5+

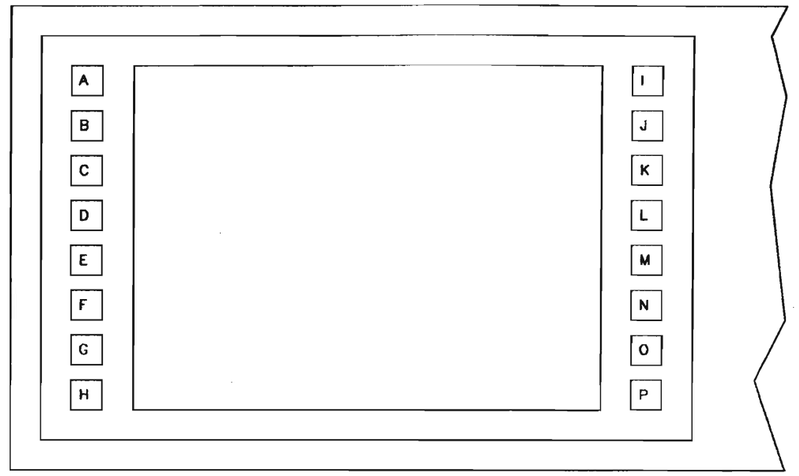
STECKBRUECKEN AUF MOTHERBOARD / JUMPERS ON MOTHERBOARD		
STECKER/ JUMPER	CMD70/71 CMD80/81 CMD84/85	CMD70/71/80/81 CMD84/85 MIT/WITH OPTION CMD- B3
X22	--	1-2
X23	--	--
X24	--	--
X25	1-2	--
X27	--	--
X28	--	--
X29	--	--

STROMLAUF GILT FUER VAR. 70/71/80/81/84/85/90/91
CIRCUIT DIAGRAM IS VALID FOR MOD.

ROHDE&SCHWARZ | 33.00 | 13.10.98 | EI | Bearb. EI | Gepr. EI
Benennung CMD 70/71/80/81/84/85/90/91
DIG. RADIOCOM. TESTER
TOP/TOP.8
PLOTT: 98-10-13 EICHFELD | ZU GERAET CMD
Zeichn.-Nr. 1050.9008.01 S
BLATT-NR. 8 +
REG. I. V. 1050.9008 | ERSTE Z. 1050.9008.01



SOFTKEYS



TASTATUR/KEYBOARD 1050.9395 f. CMD05/45/52/55/60/65/91

TASTATUR/KEYBOARD 1050.9908 f. CMD50/53

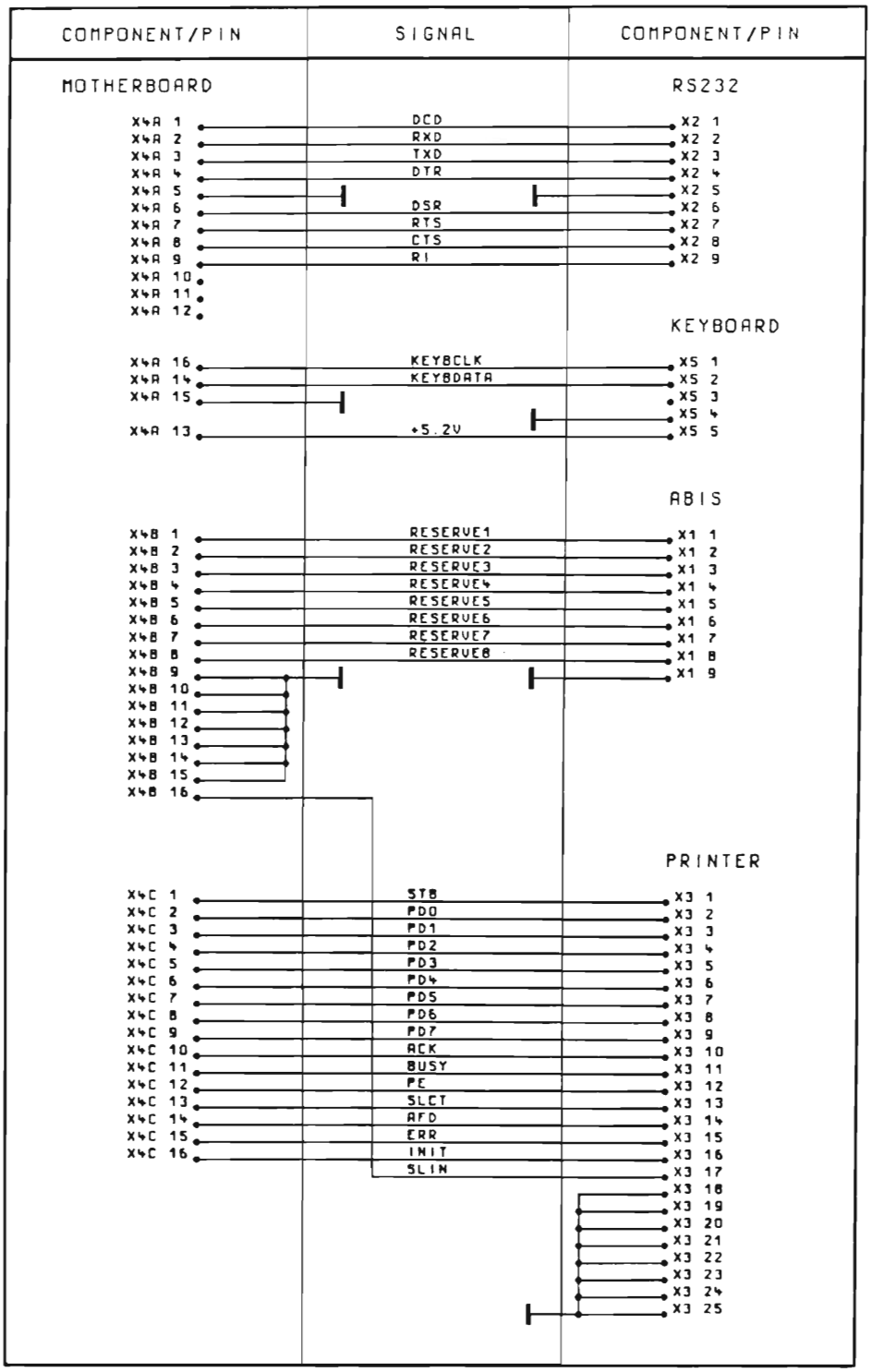
TASTATUR/KEYBOARD 1050.9872 f. CMD54/57/59/90

TASTATUR/KEYBOARD 1050.9943 f. CMD70/71

TASTATUR/KEYBOARD 1097.2597 f. CMD80/81/84/85

ROHDE&SCHWARZ	33.00		13.10.98	EI					MEZ1	Datum	Name	Benennung CMD		Zeichn.-Nr. 1050.9008.01 S	BLATT-NR. 9-
									Bearb.		EI	DIG. RADIOCOM. TESTER			
									Gepr.		EI	TOP/TOP.9			
	Aend. Zust.	Aenderungsmitteilung	Datum	Name	Aend. Zust.	Aenderungsmitteilung	Datum	Name	Norm			PLOTT: 98-10-13 EICHFELD	ZU GERAET CMD	REG. I. V. 1050.9008	ERSTE Z. 1050.9008.01

CONNECTOR-DEFINITIONS



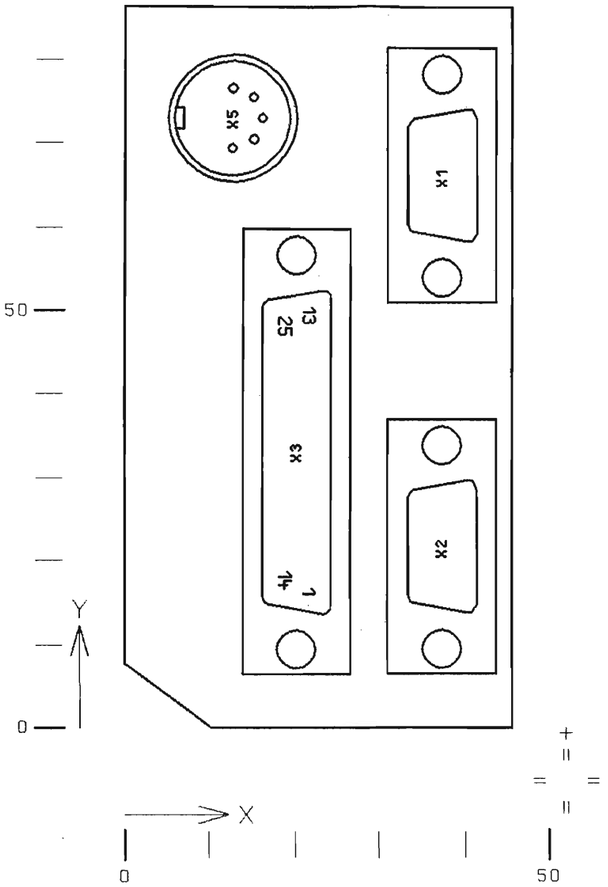
STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02

02/	49562 13	25.11.93	NG	ICMK	TAG	NAME	BENENNUNG
				BEARB.		NG	REAR PANEL BOARD
				GEPR.		NG	
				NORM			
				PLOTT	25.11.93		
/							
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			ZEICHN.-NR. 1051.0156.01S
							REG.-V. 1050.9008 ERSTE Z. 1050.9037

ROHDE&SCHWARZ

BL. 1



DARSTELLUNG SEITE B

VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE 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 SR.

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

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
01/00			

1CMK	TAG	NAME
BEARB.		NG
GEPR.		NG
NORM		
PLOTT	17.08.92	

ROHDE&SCHWARZ

ZU GERAET CMD

BENENNUNG

REAR PANEL BOARD

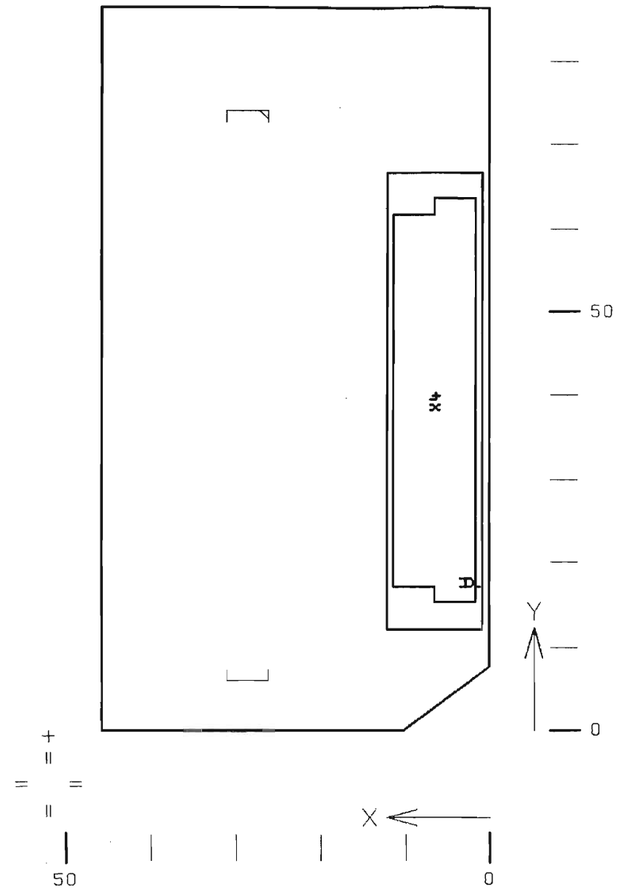
Z

ZEICHN.-NR. 1051.0156.01 ED

BLATT-NR. 1+

REG.I.V. 1050.9008

ERSTE Z. 1050.9037



DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE 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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
01/00			

1CMK	TAG	NAME
BEARB.		NG
GEPR.		NG
NORM		
PLOTT	17.08.92	

BENENNUNG: REAR PANEL BOARD

Z

ROHDE&SCHWARZ

ZU GERAET: CMD

ZEICHN.-NR.: 1051.0156.01 ED

BLATT-NR.: 2-

REG.I.V. 1050.9008 | ERSTE Z. 1050.9037

ROHDE&SCHWARZ

SERVICE DOCUMENTS
RF Frontend

1051.2707.02

Contents

7 Service Instructions for RF Frontend

7.1 Function Description

(See circuit diagram 1051.2707 S)

7.1.1 TX Path

The frontend attenuates or amplifies the signal of the RF synthesizer and connects it to the socket RFIN/OUT (X120) or RFOUT2 (X122) on the front panel of the instrument.

The TX path contains the following cascaded switch-selected level control elements:

2 * 20-dB attenuator pad
1 * 10-dB attenuator pad
1 * 5-dB attenuator pad
1 * 20-dB amplifier

7.1.2 RX Path

The incoming signal from the DUT can be applied either to socket RFIN/OUT or to RFIN2. It is attenuated or amplified and taken to the Analog Down Converter. The high transmit level of the DUT of up to +41 dBm at RFINOUT (X120) is reduced in the 10-dB power attenuator pad and taken via the 3-dB power divider to the RX attenuator. Optionally, the attenuator can also be controlled by the sensitive RFIN2 (X123), in which case the input signal is amplified by an amplifier chain. The RX attenuator consists of 2 cascaded switch-selected attenuator pads (10 dB and 20 dB) and a switch-selected amplifier (20 dB). The total gain is thus +20 to -30 dB, switchable in 10-dB steps, and takes the RX signal to the socket RFRX (X124).

7.1.3 Level Test Point

The level of the input signal is measured with a broadband level test point between the input selection switch and the attenuator. The level measuring diode can be reverse-biased to avoid intermodulations.

7.1.4 Selection of Level Test Points

The following signals of alternative level test points can be processed:

1. Broadband level measuring diode on Frontend.
2. Narrowband level measurement on Analog Down Converter (X12.C10).
3. Spare input.
4. Spare input.

The test voltage of the selected test point is applied to pin X12.C6 (POWER) of the motherboard connector and is further processed in the CPU board.

The measuring path can either be through-connected or routed via a peak-value rectifier and a sample & hold circuit.

7.1.5 Trigger Logic

Via a D/A converter, the software sets a trigger threshold depending on the expected receive level. As soon as the test voltage of the selected level test point exceeds this threshold, the signal POWERINT (X12.C2) becomes active low. This signal can trigger an interrupt on the CPU board on the one hand and cause measured data to be recorded on the DDC board on the other hand. The trigger signal can additionally be measured at pin 17 of the multi-function connector (X3) at the instrument front.

7.1.6 Control Unit

The control signals on the Frontend are operated via the serbus (X12.B6, B7, B9, B10).

7.1.7 EEPROM

In order to achieve high accuracy, individual data of the boards, e.g. the frequency response of the Frontend, are stored in an EEPROM. These data are then 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 (X12)	GND	B	P		
A2	+5 VREF	I	A	+5.00 V ± 1 mV	
A3	GND	B	P		
A4	-15.3 V	I	P	-15.3 V ± 0.8 V	
A5	GND	B	P		
A6	+5.2 V	I	P	+5.2 V ± 0.3 V	
A7	+5.2 V	I	P	+5.2 V ± 0.3 V	
A8	GND	B	P		
A9	+7.7 V	I	P	+7.7 V ± 0.4 V	
A10	GND	B	P		
A11	+15.3 V	I	P	+15.3 V ± 0.8 V	
A12	GND	B	P		
A13	+30 V	I	P	+30 V ± 1.5 V	
A14	GND	B	P		
A15					Not used
A16					Not used
B1	GND	B	P		
B2	DIAGNOSE	O	A	-0.7 V to +5.2 V	
B3	GND	B	P		
B4					Not used
B5	GND	B	P		
B6	SERBCLK	B	D	HCT	Clock
B7	SERBDATA	B	D	HCT	Data
B8	GND	B	P		
B9	SERBINT	O	D	HCT	Interrupt
B10	GND	B	P		
B11	SERBSYNC	I	D	HCT	Sync
B12	GND	B	P		
B13	BRESETDRV	I	D	HCT	Reset
B14	GND	B	P		
B15	TSENSE1	I	A	12 V max.	NTC 100k
B16	GND	B	P		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
C1 (X12)	GND	B	P		
C2	TBUSPOWERINT	O	D	TTL	
C3	GND	B	P		
C4	RES1POWER	I	A	-5 V to +5 V	
C5	GND	B	P		
C6	POWER	O	A	-0.4 V to +2.6 V	
C7	GND	B	P		
C8	RES2POWER	I	A	-5 V to +5 V	
C9	GND	B	P		
C10	IFPOWER	I	A	-5 V to +5 V	
C11	GND	B	P		
C12	TXPOWER	O	A	-0.7 V to 5.2 V	
C13	GND	B	P		
C14	TBUSRES1	I	D	HCT	
C15					Not used
C16					Not used
X120	RF IN/OUT	B	A	Pin +41 dBm max. Pout -15 dBm max. 20 to 2200 MHz	
X121	RFTX	I	A	+0 dBm max.	
X122	RFOUT2	O	A	+10 dBm max.	
X123	RFIN2	I	A	0 dBm max.	
X124	RFRX	I	A	-15 dBm max.	

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

095.1000 Bl. 3

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
C1	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C2	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C3	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C4 ..8	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C9	CE 47UF+-20%16V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C12	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	1051.4697.00	AVX	CM105X7R333K25VAT	
C12	CC 68PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR NUR VAR/ONLY MOD: 04	0009.9746.00	MURATA	GRM39C0G***F50ZPT	
C13 ..17	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C18	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C19	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C20	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C21	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C22	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C23	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C24	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C24	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C25	CE 4,7UF+-20%50V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6530.00	SANYO	50CV4.7FS	
C26	CE 47UF+-20%16V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C27 ..33	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C34	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C35	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C36	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C37	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C38 ..40	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C41	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C42	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C43	RG 5R62 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9100.00	DRALORIC	CR 0603	
C44	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C45	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C46	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C47	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C48	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C49	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C50	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C51	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C52	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C53 ..55	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C56	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C57	CC 3,9PF0,25PF NPO 0805 CAPACITOR NUR VAR/ONLY MOD: 02	CC 0093.5620.00	MURATA	GRM40C0G 3R9 C50PT	
C57	CC 0,5PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04	0010.7137.00	AVX	0603 5J *** AAW TR	
C58	CC 1,8PF0,25PF NPO 0805 CHIP CAPACITOR	CC 0099.6806.00	MURATA	GRM40 C0G 1R8 C50PT	
C60	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C61	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C62	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C63	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	CC 0099.8667.00	MURATA	GRM42-6C0G 1R0 C50PT	
C64	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C65	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C66	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C68 ..71	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C72	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C73	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C74	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	1051.4697.00	AVX	CM105X7R333K25VAT	
C74	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR NUR VAR/ONLY MOD: 04	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C75	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C76	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C77	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C77	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C78	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C79	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C80	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C82	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C83	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 C0G 101 K50ZPT	
C84	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C85	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C86 ..97	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C98	CK 22NF +-5% 25V PPS 1812 SMD-FILM-CAPACITOR	0009.7866.00	PHILIPS_CO	2222 392 29223	
C99 ..101	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C102	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C103	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C104	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C105	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C106 ..126	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C127	RG 5R62 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9100.00	DRALORIC	CR 0603	
C128	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C129	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR	1051.4697.00	AVX	CM105X7R333K25VAT	
C130	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C131	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C132	CC 33NF+-10% 25V HDK 0603 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	1051.4697.00	AVX	CM105X7R333K25VAT	
C132	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR NUR VAR/ONLY MOD: 04	CC 0009.4721.00	MURATA	GRM39COG***F50ZPT	
C133 ..140	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C141	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C142 ..144	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C145	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C146	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C147	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C148	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C149	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C150	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C151	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C152	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4721.00	MURATA	GRM39COG***F50ZPT	
C153	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C154	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C155	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C156	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C157	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C158	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C159	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C160	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C161	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT/NOT FITTED	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C162	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C163	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	
C164 ..168	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4721.00	MURATA	GRM39COG***F50ZPT	
C170	CC 6,8PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8262.00	MURATA	GRM39COG***B50ZPT	
C171	CC 0,3PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR	0010.7114.00	AVX	0603 5J *** AAW TR	
C172 ..185	CC 100PF+-10% NPO 0805 CAPACITOR	CC 0082.2948.00	MURATA	GRM40 COG 101 K50ZPT	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C195	CC 0,5PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NUR VAR/ONLY MOD: 02	0010.7137.00	AVX	0603 5J *** AAW TR	
C195	CC 1,8PF0,25PF NPO 0805 CHIP CAPACITOR NUR VAR/ONLY MOD: 04	CC 0099.6806.00	MURATA	GRM40 COG 1R8 C50PT	
C196	CC 0,5PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NICHT BESTUECKT/NOT FITTED	0010.7137.00	AVX	0603 5J *** AAW TR	
C501	CC 10PF 0,25PF NPO 0805 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04	CC 0099.8321.00	MURATA	GRM40 COG100C 50ZPT	
C503	CC 0,7PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR	0010.7150.00	AVX	0603 5J *** AAW TR	
D1	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D2	BM SW-279 GAAS SPDTSWITCH GAAS RF-SWITCH NUR VAR/ONLY MOD: 02	1051.4839.00	MACOM	SW-279 (TR/GURT)	
D3	BM SW-279 GAAS SPDTSWITCH GAAS RF-SWITCH NUR VAR/ONLY MOD: 02	1051.4839.00	MACOM	SW-279 (TR/GURT)	
D4 ..11	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D12	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D13	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D14	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
D15	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
D16	BL PC74HCT165T 8B SHREG SHIFT REGISTER	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
D17	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	0008.6143.00	THESYS	TH3032.1C	
D18	BC X24C16S14 2KX8 EEPROM SERIAL EEPROM	1028.8190.00	XICOR	X24C16S(14)	
D19	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D20	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D21	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
D22 ..24	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D25	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D26	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D27	BL PC74HCT08T 4X2IN ANDG AND GATE	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
D29	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D30 ..36	BL PC74HCT4094T 8ST.SHREG SHIFT REGISTER	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D38	BL PC74HCT02T 4X2IN NORG QUAD 2INPUT NORGATE	BL 0007.5366.00	PHILIPS_SE	(PC)74HCT02(D/T)	
D40 ..49	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D50	BM SW-339 GAAS SPDTSWITCH GAAS RF-SWITCH	1085.2074.00	MACOM	SW339 PIN	
D51	BM SW-339 GAAS SPDTSWITCH GAAS RF-SWITCH	1085.2074.00	MACOM	SW339 PIN	
G1	BO REF02CS VREF IC VOLTAGE REFERENCE NUR VAR/ONLY MOD: 02	0009.6882.00	ANALOG_DEV	REF02CS	
G1	BO REF02CS VREF IC VOLTAGE REFERENCE NUR VAR/ONLY MOD: 04	0009.6882.00	ANALOG_DEV	REF02CS	
L1	LD 47NH 10%0R08 1,3A 1010 CHIP-COIL NUR VAR/ONLY MOD: 02	0920.0033.00	STETTNER	5501 4702200	
L1	LD 330NH5% 0R45 0,5A INDUCTOR COIL NUR VAR/ONLY MOD: 04	6040.4811.00	STETTNER	5501 3313400	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L2	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L3	LD 47NH 10%OR08 1,3A 1010 CHIP-COIL NUR VAR/ONLY MOD: 02	0920.0033.00	STETTNER	5501 4702200	
L3	LD 33ONH5% OR45 0,5A INDUCTOR COIL NUR VAR/ONLY MOD: 04	6040.4811.00	STETTNER	5501 3313400	
L4 ..10	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L11	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L12	LD 33ONH5% OR45 0,5A INDUCTOR COIL NUR VAR/ONLY MOD: 02	6040.4811.00	STETTNER	5501 3313400	
L12	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR NUR VAR/ONLY MOD: 04	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L13	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L14	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L15	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L16	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L17	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L18	LD 33ONH5% OR45 0,5A INDUCTOR COIL	6040.4811.00	STETTNER	5501 3313400	
L20	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L21	LD 1,5NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6599.00	TOKO	LL1608-FH1N5S	
L22	LD 47NH 10%OR08 1,3A 1010 CHIP-COIL	0920.0033.00	STETTNER	5501 4702200	
L23	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L24	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L25 ..30	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L31	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L32	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L33	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L34	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L35	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L36	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L37	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L38	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L39	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L40	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L41	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L42	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L43	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L44	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L45	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L46	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L47	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L48	LD 33ONH5% OR45 0,5A INDUCTOR COIL	6040.4811.00	STETTNER	5501 3313400	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L49	LD 47NH 10%0R08 1,3A 1010 CHIP-COIL	0920.0033.00	STETTNER	5501 4702200	
L50	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L51	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L52	LD 2,2NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6618.00	TOKO	LL1608-FH2N2S	
N1	BO MC78L12A+12V5%0A1VREGL VOLTAGE REGULATOR	0350.9979.00	MOTOROLA	(MC)78L12(ACD)	
N2	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N3	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N4	BO LP2951CMLOWDROP +VREGL IC VOLTAGE REGULATOR	1020.0890.00	NSC	LP2951CM	
N5	BM INA3184 DC-2.5G MMIC MONOLITIC MICRO WAVE AMP NUR VAR/ONLY MOD: 02	0840.6971.00	HEWLETT_PA	INA-03184	
N5	BM ERA-5SM DC-4GHZ MMIC BROADBAND AMPLIFIER NUR VAR/ONLY MOD: 04	0048.3100.00	MINI-CIRCU	ERA-5SM	
N6	BO LP2951CMLOWDROP +VREGL IC VOLTAGE REGULATOR	1020.0890.00	NSC	LP2951CM	
N7	BO AD744KR FET OPAMP BIFET OPAMP	0854.1754.00	ANALOG_DEV	(AD)744KR	
N8	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N9	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N10	BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER	0007.7823.00	TEXAS	TLO74A(CD)	
N11	BJ LF398S8 SAMPLE/HOLD SAMPLE AND HOLD AMPLIFIER	0802.4375.00	LINEAR_TEC	(LF)398(S8)	
N12	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N13	BO AD744KR FET OPAMP BIFET OPAMP	0854.1754.00	ANALOG_DEV	(AD)744KR	
N14	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N15	BM ERA-5SM DC-4GHZ MMIC BROADBAND AMPLIFIER	0048.3100.00	MINI-CIRCU	ERA-5SM	
N16	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
N17	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N18	BO LP2951CMLOWDROP +VREGL IC VOLTAGE REGULATOR	1020.0890.00	NSC	LP2951CM	
N19	PD-22 2WEG-L.TEILER/CO POWER DIVIDER	4024.7130.00	R&K_LIMITE	PD-22	
N20	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
N21	BO LT1056S8 FET OPAMP OPERATIONAL AMPLIFIER	0007.7800.00	LINEAR_TEC	LT1056(S8)	
N22	BO OP27GS LN OPAMP OPAMP	6024.3214.00	PMI	OP27G(S)	
R1	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R2	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R3	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R4	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R5	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R6	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	PHILIPS_CO	RC02	
R7	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R8	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R9	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R10	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R11	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R12	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R13	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R14	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R15	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R16	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R17 ..26	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R27	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R28	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R29	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R30	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R31	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R32	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R33	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R34	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R35	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R36	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R37	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R38 ..55	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R56	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RC02	
R57	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R58	RG 0,05W 270R +-1% 0805 RESISTOR NUR VAR/ONLY MOD: 02	RG 0007.9055.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R58	RG 0,05W 82R +-1% 0805 RESISTOR NUR VAR/ONLY MOD: 04	RG 0007.8994.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R59	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R60	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R61	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R62	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R63	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R64	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R65	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R66	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R67	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R68	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R69	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5714.00	PHILIPS_CO	RC02	
R69	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04	RG 0007.5714.00	PHILIPS_CO	RC02	
R70	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R71	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R72	RG 0,05W 33R +-1% 0805 RESISTOR	RG 0007.8942.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 02				
R72	RG 0,05W 47R +-1% 0805 RESISTOR	RG 0007.8965.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 04				
R73	RG 0,05W 180R +-1% 0805 RESISTOR	RG 0007.9032.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 02				
R73	RG 0,05W 120R +-1% 0805 RESISTOR	RG 0007.9010.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 04				
..74					
R75	RG 0,05W 120R +-1% 0805 RESISTOR	RG 0007.9010.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 04				
R75	RG 0,05W 18R +-1% 0805 RESISTOR	RG 0007.8913.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 02				
R76	RG 0,05W 270R +-1% 0805 RESISTOR	RG 0007.9055.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 02				
R76	RG 0,05W 82R +-1% 0805 RESISTOR	RG 0007.8994.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
	NUR VAR/ONLY MOD: 04				
R77	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R78	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R79	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R80	RG 1,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9951.00	PHILIPS_CO	RC02	
R81	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R82	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R83	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R84	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R85	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R86	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
	NUR VAR/ONLY MOD: 02				
R86	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
	NUR VAR/ONLY MOD: 04				
R87	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R88	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R89	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R90	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
	NUR VAR/ONLY MOD: 02				
R90	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
	NUR VAR/ONLY MOD: 04				
R91	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R92	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R93	RG 0,05W 150R +-1% 0805 RESISTOR	RG 0007.9026.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R94	RG 0,05W 150R +-1% 0805 RESISTOR	RG 0007.9026.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R95	RG 0,05W 39R +-1% 0805 RESISTOR	RG 0007.8959.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R96	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R97	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R98	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R99	RG 100,0KOH+-1%TK100 CHIP RESISTOR	1206	RG 0007.1948.00	PHILIPS_CO	RC02	
R100	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R101	RG 10R +-1% TK50 RESISTOR	0805	RG 0007.8888.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R102	RG 0,05W 22R +-1% RESISTOR NUR VAR/ONLY MOD: 02	0805	RG 0007.8920.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R102	RG 0-OHM WIDERSTAND 0-OHM RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R103	RG 0,05W 270R +-1% RESISTOR NUR VAR/ONLY MOD: 02	0805	RG 0007.9055.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R104	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R105	RG 562 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.9068.00	PHILIPS_CO	RC02	
R106	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R107	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R108	RG 100,0KOH+-1%TK100 CHIP RESISTOR	1206	RG 0007.1948.00	PHILIPS_CO	RC02	
R109	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R110	RG 220R +-1% TK200 SMD-RESISTOR EIA0603	0603	0009.6953.00	DRALORIC	CR 0603	
R111	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R112	RG 1,5 KOHM+-1%TK100 RESISTOR CHIP NUR VAR/ONLY MOD: 02	1206	RG 0007.5714.00	PHILIPS_CO	RC02	
R112	RG 2,0 KOHM+-1%TK100 RESISTOR CHIP NUR VAR/ONLY MOD: 04	1206	RG 0007.5737.00	PHILIPS_CO	RC02	
R113	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R114	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R115	RG 825 OHM+-1%TK100 CHIP RESISTOR NUR VAR/ONLY MOD: 02	1206	RG 0006.7259.00	PHILIPS_CO	RC02	
R115	RG 56,2 OHM+-1%TK100 CHIP RESISTOR NUR VAR/ONLY MOD: 04	1206	RG 0006.8826.00	PHILIPS_CO	RC02	
R116	RG 0,05W 470R +-1% RESISTOR NUR VAR/ONLY MOD: 02	0805	RG 0007.9084.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R117	RG 0,05W 470R +-1% RESISTOR NUR VAR/ONLY MOD: 02 TRIMMWERT/SELECTED"	0805	RG 0007.9084.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R118	RG 0,05W 220R +-1% RESISTOR NUR VAR/ONLY MOD: 02 TRIMMWERT/SELECTED"	0805	RG 0007.9049.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R119	RG 0,05W 220R +-1% RESISTOR NUR VAR/ONLY MOD: 02	0805	RG 0007.9049.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R120	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R121	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R122	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R123	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R124	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R125	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R126	RG 68R +-1% TK200 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0603	0009.6930.00	DRALORIC	CR 0603	
R126	RG 82,5 OHM+-1%TK200 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0603	0009.9052.00	DRALORIC	CR 0603	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R127	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R128	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R129	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0009.6930.00	DRALORIC	CR 0603	
R129	RG 82,5 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0009.9052.00	DRALORIC	CR 0603	
R130	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R131	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R132	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5950.00	PHILIPS_CO	RC02	
R132	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE NUR VAR/ONLY MOD: 04	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
R133	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5950.00	PHILIPS_CO	RC02	
R133	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE NUR VAR/ONLY MOD: 04	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
R134	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R135	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R136	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0009.6930.00	DRALORIC	CR 0603	
R136	RG 82,5 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0009.9052.00	DRALORIC	CR 0603	
R137	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R138	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R139	RG 0,05W 56R +-1% 0805 RESISTOR	RG 0007.8971.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R140	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	PHILIPS_CO	RC02	
R141	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R142	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R143	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RC02	
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 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	
R148	RS 0,25W50KOHM +-20% SMD POTENTIOMETER	RS 0007.9661.00	BI_TECHNOL	23 B R... TR	
R149	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R150	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R151	RG 35,7 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5537.00	PHILIPS_CO	RC02	
R151	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04	RG 0006.8832.00	PHILIPS_CO	RC02	
R152	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R153	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R154	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R155	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R156	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R157	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R158	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	PHILIPS_CO	RC02	
R159	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R160	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R161	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R162	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R163	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R164	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R165	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R166 ..169	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R170	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R171	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R172	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0006.8884.00	PHILIPS_CO	RC02	
R172	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
R173	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R174	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R175	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R176	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R177	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R178	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R179	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R180	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R181	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R182	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R183	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R184	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R185	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R186	RG 30,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5908.00	PHILIPS_CO	RC02	
R187	RS 0,25W 1KOHM +-20% SMD RG POTENTIOMETER	RS 0007.9610.00	BI_TECHNOL	23 B R... TR	
R188	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R189	RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5750.00	PHILIPS_CO	RC02	
R190	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R191	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R192	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R193	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R194	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R195	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R196	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R197	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R198	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R199	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	PHILIPS_CO	RC02	
R200	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R201 ..203	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R204	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R205	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	PHILIPS_CO	RC02	
R206	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	PHILIPS_CO	RC02	
R207	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R208	RG 357 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6040.00	PHILIPS_CO	RC02	
R209	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R210	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R211	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R212	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R213	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R214	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R215	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R216	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R217	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R218	RG 9,09KOHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0007.0787.00	PHILIPS_CO	RC02	
R218	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04	RG 0007.5843.00	PHILIPS_CO	RC02	
R219	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04	RG 0007.5737.00	PHILIPS_CO	RC02	
R219	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0007.0729.00	PHILIPS_CO	RC02	
R220 ..231	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R232	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R233	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R234 ..239	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 ..243	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R244	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R245 ..252	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R253	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R254	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R255	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R256	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R257	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R258	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R259	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R260	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R261	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R262	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R263	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R264	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	PHILIPS_CO	RC02	
R270	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R272	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R274	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R275	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R276	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R277	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R278	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R279	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R280	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R281	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R282	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R284	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R285 ..288	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R289	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R290	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R291	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R292	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R293	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R294	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R295	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R296	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R297	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R298	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R299	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R300	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R301	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R302	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R303	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R304	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R305	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R306	RG 0,05W 56R +-1% 0805 RESISTOR	RG 0007.8971.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R307	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R308	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R309	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R310	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R311	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R312	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R313	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R314	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R315	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R316	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R317	RG 0,05W 56R +-1% 0805 RESISTOR	RG 0007.8971.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R318	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R319	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R320	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R321	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R322	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R323	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R324	RG 0,05W 27R +-1% 0805 RESISTOR	RG 0007.8936.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R325	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R326	RG 220R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6953.00	DRALORIC	CR 0603	
R327	RG 68,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1902.00	PHILIPS_CO	RC02	
R328	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R329	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R330	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RC02	
R331	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R332	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0006.7271.00	PHILIPS_CO	RC02	
R333	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R334	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R335	RS 0,25W20KOHM +-20% SMD POTENTIOMETER	RS 0007.9655.00	BI_TECHNOL	23 B R... TR	
R336	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R337	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R338	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R339	RG 27,4KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5895.00	PHILIPS_CO	RC02	
R340	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R341	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R342	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R343	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R344	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R345	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R346	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R347	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R348	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R349	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R350	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R351	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R352	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R353	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R354	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R355	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R356	RG 680R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6982.00	DRALORIC	CR 0603	
R357	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	PHILIPS_CO	RC02	
R358	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R359	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R360	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R361	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R362	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R363	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R364	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R365	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R366	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R367	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R368	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R369	LD 1,5NH+-0,3NH 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6599.00	TOKO	LL1608-FH1N5S	
R370	RG 8R25 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9117.00	DRALORIC	CR 0603	
R371	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R372	RG 61,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8832.00	PHILIPS_CO	RC02	
R373 ..376	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R500	RG 82,5KOHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04	RG 0007.1925.00	ROEDERSTEI	D25	
R501	RL 0,40W 2,00KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	0092.0283.00	ROEDERSTEI	MK1	
R502	RL 0,40W 1,00KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	RL 0092.1444.00	ROEDERSTEI	MK1	
R503	RG 20,00HM+-0,1%TK25 1206 CHIP RESISTOR	1110.3068.00	PHILIPS_CO	MPC 01	
R504	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04	RG 0006.8826.00	PHILIPS_CO	RC02	
R532	RL 0,40W 33,2KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	RL 0092.1621.00	ROEDERSTEI	MK1	
R533	RL 0,40W 33,2KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	RL 0092.1621.00	ROEDERSTEI	MK1	
R586	RL 0,40W 33,2KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	RL 0092.1621.00	ROEDERSTEI	MK1	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R590	RL 0,40W 33,2KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04	RL 0092.1621.00	ROEDERSTEI	MK1	
U1 ..5	BO LM2903D 2XLP COMPAR DUAL	0520.7734.00	SIGNETICS	LM2903(D)	
U6	BO LM211D COMPAR COMPARATOR	0007.7869.00	SIGNETICS	LM211(D)	
U7	BJ PM7533GS 1X10B-DAC D/A-CONVERTER	2033.1473.00	ANALOG_DEV	AD7533KR	
U8 ..13	BO LM2903D 2XLP COMPAR DUAL	0520.7734.00	SIGNETICS	LM2903(D)	
V1	AK BCX17 P 45V 500MA TRANSISTOR	AK 0007.2080.00	PHILIPS	BCX17	
V2	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V3	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V4	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V5	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V6	AE BZV55/C6V8 0,5W ZDI ZENER DIODE	AE 0006.9868.00	PHILIPS	BZV55/B6V8	
V7	AK BCX19 N 45V 500MA TRANSISTOR	6014.2567.00	PHILIPS_SE	BCX19	
V8	AE HSMS2820T31 SCHOTTKY SCHOTTKY DIODE	0820.3502.00	HEWLETT_PA	HSMS2820L31	
V9	AE HSMS2820T31 SCHOTTKY SCHOTTKY DIODE	0820.3502.00	HEWLETT_PA	HSMS2820L31	
V10	AE BZV55/C2V7 0,5W ZDI ZENER DIODE	AE 0007.3411.00	PHILIPS_SE	BZV55B2V7	
V11	AE BZV55/C2V7 0,5W ZDI ZENER DIODE	AE 0007.3411.00	PHILIPS_SE	BZV55B2V7	
V12	AD BAS32 75V UDI DIODE NUR VAR/ONLY MOD: 02	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V12	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04	RG 0006.9068.00	PHILIPS_CO	RC02	
V16	AE BAT62 40V 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1051.4045.00	SIEMENS	BAT62 (-A971)	
V17	AE BAT62 40V 1+1 SCHOTTKY SCHOTTKY DIODE PAIR NUR VAR/ONLY MOD: 02	1051.4045.00	SIEMENS	BAT62 (-A971)	
V17	AE BAT62 40V 1+1 SCHOTTKY SCHOTTKY DIODE PAIR NUR VAR/ONLY MOD: 04	1051.4045.00	SIEMENS	BAT62 (-A971)	
V18	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V19	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V20	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V21	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V22	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V23	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V24	AE BZV55/10V 0,5W ZDI ZENER DIODE	AE 0006.9880.00	PHILIPS_SE	BZV55C10	
V25	AE BZV55/10V 0,5W ZDI ZENER DIODE	AE 0006.9880.00	PHILIPS_SE	BZV55C10	
V30	AE BAT62 40V 1+1 SCHOTTKY SCHOTTKY DIODE PAIR NUR VAR/ONLY MOD: 02	1051.4045.00	SIEMENS	BAT62 (-A971)	
V31	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V32	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V33	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V34	AM BSS87 N-E 200V MOSF DMOS FET	0763.5206.00	PHILIPS	BSS87	
V35	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V36	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V37	AE BAT62 40V 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1051.4045.00	SIEMENS	BAT62 (-A971)	
X12	FP STECKERLEISTE 48P.KURZ CONNECTOR 48P.	FP 0008.5882.00	DEUT_ELCO	16 8457 048 002 025	
X120	FJ EINBAUBUCHSE SYST.SMA	FJ 0524.0770.00	SUHNER	22SMA-50-0-8/111NH	
X121 ..124	FJ EINBAUWINKELST. SMC ANGLE CONNECTOR	FJ 0249.9684.00	IMS	82.1524.201	
Z1	RT 10DB DC-2GHZ DAEMPF-GL POWER FLANGE ATTENUATOR	1051.4845.00	RES-NET	RPA 50-10	

ROHDE&SCHWARZ

XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

el. Kennz.	**Bauelement-Kennzeichen**
Seite	**Leiterplatten-Seite, auf der sich das Bauelement befindet**
X/Y	**Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt**
Planq., Bl.	**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 (in units of millimeters) 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
R148	B	189	78	3D	20	X12	B	133	11	1F	3	X122	B	126	123	2E	2
R187	B	133	82	8A	6	X120	B	199	11	2C	2	X123	B	179	123	2A	2
R335	B	119	104	3D	19	X121	B	32	123	8E	2	X124	B	202	123	8A	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	A	116	44	5B	3	C45	A	185	71	4C	9	C94	A	148	58	3F	6
C2	A	111	23	4A	3	C46	A	183	117	2A	9	C95	A	147	61	3E	6
C3	A	127	44	5D	3	C47	A	175	108	2B	9	C96	A	143	85	8C	6
C4	A	150	40	5E	3	C48	B	182	95	3B	9	C97	B	136	88	8B	6
C5	A	103	41	6A	3	C49	B	182	84	4B	9	C98	A	148	86	8C	6
C6	A	123	48	7B	3	C50	A	179	115	2A	9	C99	B	115	67	4F	7
C7	A	144	43	6C	3	C51	A	178	112	2B	9	C100	A	115	71	4E	7
C8	B	128	33	6D	3	C52	B	191	121	1E	9	C101	A	120	74	4E	7
C9	B	143	38	5C	3	C53	B	184	126	1E	9	C102	B	131	58	7C	7
C10	A	131	41	6E	3	C54	B	175	98	3A	9	C103	B	121	66	8B	7
C11	A	85	34	7C	3	C55	B	189	89	4A	9	C104	A	103	76	2E	6
C12	B	178	54	6C	13	C56	A	210	102	2A	21	C105	B	99	64	6B	7
C13	A	85	42	7D	3	C60	A	213	100	2A	21	C106	A	111	61	2C	7
C14	A	78	38	8C	3	C61	B	197	112	6C	21	C107	A	98	88	2E	6
C15	A	95	38	8B	3	C62	B	210	105	5C	21	C108	A	93	88	2F	6
C16	A	203	39	3E	13	C63	B	200	112	6D	21	C109	A	75	72	3E	7
C17	B	94	20	6E	4	C64	B	201	100	6C	21	C110	A	80	77	3E	7
C18	A	215	45	3D	13	C65	A	189	111	5E	21	C111	A	37	78	2D	11
C19	A	212	45	3D	13	C66	A	180	98	5D	21	C112	A	19	30	00	10
C20	A	68	18	7A	4	C68	A	206	91	2B	22	C113	A	58	78	2E	11
C21	A	93	45	8B	3	C69	A	199	88	1B	22	C114	A	54	22	00	10
C22	A	98	45	7B	3	C70	A	204	69	2B	23	C115	A	23	32	00	10
C23	B	206	49	6C	13	C71	A	210	67	1B	23	C116	A	18	15	00	10
C24	A	182	23	3E	13	C72	A	193	72	3D	20	C117	A	47	47	3D	12
C25	B	104	39	5A	3	C73	A	151	112	7B	8	C118	A	52	50	3D	12
C26	B	134	38	5D	3	C74	B	180	41	6D	13	C119	A	70	36	4D	12
C27	A	108	30	5A	3	C75	A	146	111	8B	8	C120	A	65	36	4D	12
C28	B	114	20	4B	3	C76	B	200	66	4E	20	C121	A	29	53	2D	11
C29	A	117	30	5B	3	C77	B	194	66	5C	20	C122	A	123	88	4E	6
C30	A	148	23	4C	3	C78	A	206	77	7B	20	C123	A	108	83	4F	6
C31	A	147	30	5C	3	C79	A	192	94	5A	20	C124	A	113	84	4E	6
C32	B	124	23	4C	3	C80	A	200	76	7D	20	C125	A	88	91	2D	5
C33	A	120	30	5C	3	C82	A	177	79	5B	9	C126	A	118	84	4F	6
C34	A	142	23	4D	3	C83	A	185	79	4B	9	C127	B	26	123	1B	8
C35	B	137	30	5D	3	C84	A	199	81	6E	20	C128	B	133	119	6A	8
C36	A	153	21	4E	3	C85	A	113	79	5C	6	C129	B	126	112	6B	8
C37	A	153	30	5E	3	C86	A	123	65	7C	7	C130	A	151	116	6B	8
C38	B	182	109	2B	9	C87	A	102	60	1E	7	C131	A	145	116	7B	8
C39	B	188	75	5B	9	C88	A	107	56	1F	7	C132	B	134	123	8A	8
C40	B	197	71	5B	9	C89	A	75	59	3E	7	C133	A	27	104	2B	16
C41	A	196	126	4E	9	C90	A	123	56	2E	7	C134	A	34	103	1B	16
C42	B	185	123	1B	9	C91	A	128	56	2F	7	C135	A	25	124	2B	18
C43	B	209	123	8B	9	C92	A	152	65	3E	6	C136	A	15	124	1B	18
C44	A	177	71	3C	9	C93	A	98	71	1E	6	C137	A	64	109	2B	17

ROHDE & SCHWARZ	AEI	Datum / Date	XY-Liste fuer / XY-list for	Sach-Nummer / Stock-Nr	Blatt / Page
	-02-	08.12.94	EE RF FRONTEND	1051.2707.01 XY	1+

Part	Side	X	Y	Sqr	Pg
C138	A	65	117	1B	17
C139	A	45	117	2B	15
C140	A	43	127	1B	15
C141	A	127	117	3D	19
C142	A	208	120	7B	21
C143	A	208	112	8B	21
C144	A	212	58	5D	13
C145	B	141	111	4E	19
C146	B	141	113	5C	19
C147	B	130	106	7B	19
C148	B	106	101	5A	19
C149	A	134	103	7D	19
C150	A	215	58	5D	13
C151	B	92	108	3C	14
C152	B	86	114	3D	14
C153	A	129	103	6E	19
C154	A	101	111	1B	14
C155	A	87	109	5B	14
C156	A	92	110	3B	14
C157	A	88	99	4F	14
C158	A	83	113	4E	14
C159	A	85	122	5C	14
C160	A	108	127	6C	14
C161	B	117	124	7C	14
C162	A	68	113	5A	14
C163	A	107	111	2B	14
C164	B	97	115	2D	14
C165	B	99	121	6D	14
C166	B	81	122	4D	14
C167	B	120	118	7D	14
C168	B	91	126	5D	14
C170	B	94	114	2C	14
C171	B	80	118	4E	14
C172	A	120	115	8B	14
C173	A	115	115	8B	14
C174	A	210	96	3B	22
C175	A	199	99	4B	22
C176	A	204	76	3B	23
C177	A	211	77	4B	23
C178	A	27	111	3B	16
C179	A	35	111	4B	16
C180	A	24	111	3B	18
C181	A	16	110	4B	18
C182	A	76	109	3B	17
C183	A	75	115	4B	17
C184	A	53	119	3B	15
C185	A	53	127	4B	15
D1-A	B	92	20	6B	4
D1-B				6B	4
D1-C				6C	4
D1-D				6C	4
D1-E				6E	4
D2	B	211	41	3C	13
D3	B	211	52	5C	13
D4	B	185	75	5B	9

Part	Side	X	Y	Sqr	Pg
D5	B	185	67	3C	9
D6	B	215	94	2A	21
D7	B	212	119	8A	21
D8	B	205	92	4A	22
D9	B	205	84	1A	22
D10	B	204	81	4A	23
D11	B	204	71	1A	23
D12-A	B	103	67	3B	6
D12-B				1E	6
D13-A	B	80	68	5C	7
D13-B				3E	7
D14-A	B	152	61	7D	6
D14-B				3E	6
D15-A	B	120	70	1B	7
D15-B				4E	7
D16-A	B	22	77	3B	11
D16-B				2D	11
D17-A	B	60	25	00	10
D17-B				00	10
D18-A	B	19	32	3C	10
D18-B				00	10
D19-A	B	36	32	2C	10
D19-B				3C	10
D19-C				3D	10
D19-D				3E	10
D19-E				00	10
D20-A	B	35	15	3C	10
D20-B				00	10
D21-A	B	71	25	4C	12
D21-B				4E	12
D22-A	B	22	61	00	11
D22-B				2E	11
D23-A	B	42	77	00	11
D23-B				3E	11
D24-A	B	14	53	1D	11
D24-B				3E	11
D25-A	B	32	61	00	11
D25-B				00	11
D25-C				00	11
D25-D				00	11
D25-E				4D	11
D26-A	B	47	53	3A	12
D26-B				3D	12
D27-A	B	24	53	00	11
D27-B				00	11
D27-C				00	11
D27-D				00	11
D27-E				4D	11
D29-A	B	57	53	3B	12
D29-B				3E	12
D30-A	B	42	61	00	11
D30-B				3D	11
D31-A	B	32	77	00	11
D31-B				3D	11
D32-A	B	52	77	1B	11

Part	Side	X	Y	Sqr	Pg
D32-B				3D	11
D33-A	B	64	77	00	11
D33-B				2D	11
D34-A	B	62	61	00	11
D34-B				3D	11
D35-A	B	52	61	00	11
D35-B				3D	11
D36-A	B	34	53	00	11
D36-B				3D	11
D38-A	B	75	90	3D	5
D38-B				3D	5
D38-C				2B	5
D38-D				3B	5
D38-E				2D	5
D40	B	151	108	8B	8
D41	B	146	119	6A	8
D42	B	28	115	4A	16
D43	B	28	107	1A	16
D44	B	23	107	4A	18
D45	B	23	120	1A	18
D46	B	72	110	4A	17
D47	B	62	110	1A	17
D48	B	49	119	4A	15
D49	B	39	119	1A	15
D50	B	104	107	1A	14
D51	B	120	112	8A	14
G1	B	182	23	2E	13
L1	B	180	93	3B	9
L2	A	145	19	4B	3
L3	B	184	82	4B	9
L4	B	168	37	2D	3
L5	B	138	49	2A	3
L6	B	149	49	2B	3
L7	B	133	49	2B	3
L8	B	144	49	2C	3
L9	B	105	23	2C	3
L10	B	159	37	2C	3
L11	A	185	126	1E	9
L12	B	196	107	6C	21
L13	A	183	105	5D	21
L14	B	168	32	2E	3
L15	B	120	20	4B	3
L16	B	100	23	2D	3
L17	B	145	34	5B	3
L18	B	88	113	3D	14
L20	B	116	35	5B	3
L21	B	80	116	4E	14
L22	B	88	124	5D	14
L23	A	109	20	4A	3
L24	B	110	23	4A	3
L25	B	81	22	7A	4
L26	B	95	23	7B	4
L27	B	90	23	7B	4
L28	B	85	23	7C	4
L29	B	81	11	7D	4

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Part	Side	X	Y	Sqr	Pg
L30	B	81	17	7D	4
L31	B	103	20	6E	4
L32	B	109	35	5A	3
L33	A	120	23	4B	3
L34	B	116	23	4B	3
L35	A	116	35	5B	3
L36	A	145	14	4C	3
L37	B	146	23	4C	3
L38	A	145	34	5C	3
L39	A	127	23	4C	3
L40	B	121	23	4C	3
L41	A	119	35	5C	3
L42	A	138	19	4D	3
L43	B	141	23	4D	3
L44	B	136	34	5D	3
L45	B	149	17	4E	3
L46	B	151	23	4E	3
L47	A	153	34	5E	3
L48	B	101	124	6D	14
L49	B	120	123	7D	14
L50	A	81	106	4E	14
L51	A	69	109	4A	14
N1	B	93	45	7B	3
N2	B	180	103	2B	9
N3	B	184	92	3B	9
N4-A	B	195	124	3D	9
N4-B				1E	9
N5	B	205	107	6C	21
N6-A	B	194	107	4B	21
N6-B				5E	21
N7-A	B	201	81	6C	20
N7-B				6D	20
N8-A	B	192	94	4B	20
N8-B				3C	20
N8-C				6D	20
N9-A	B	93	88	5E	6
N9-B				4B	6
N9-C				2E	6
N10-A	B	102	64	6B	7
N10-B				3C	7
N10-C				6C	7
N10-D				2B	7
N10-E				1E	7
N11	B	143	88	8B	6
N12-A	B	65	40	3A	12
N12-B				2D	12
N12-C				4D	12
N13-A	B	129	103	6C	19
N13-B				6D	19
N14-A	B	110	103	4B	19
N14-B				3C	19
N14-C				6D	19
N15	B	103	121	6D	14
N16	B	92	124	5D	14
N17	B	81	126	4D	14
N18-A	B	83	103	3B	14
N18-B				4F	14
N19	B	198	47	6C	13
N20	B	94	117	3D	14
N21-A	B	108	88	5B	6
N21-B				4E	6
N22-A	B	118	88	7C	6
N22-B				4E	6
R1	A	112	40	5B	3
R2	A	123	39	5C	3
R3	B	111	43	6B	3
R4	A	89	38	7C	3
R5	B	149	33	5E	3
R6	A	89	46	7C	3
R7	A	107	34	5A	3
R8	B	120	33	6C	3
R9	A	128	34	6D	3
R10	B	123	36	6C	3
R11	A	115	48	6B	3
R12	B	122	48	6B	3
R13	A	144	40	5C	3
R14	A	142	37	5C	3
R15	A	81	34	8C	3
R16	B	78	34	8C	3
R17	A	65	21	7A	4
R18	A	94	30	7B	4
R19	A	88	30	7B	4
R20	A	81	30	7C	4
R21	A	72	8	7D	4
R22	A	81	16	6A	4
R23	A	93	23	6B	4
R24	A	87	23	6B	4
R25	A	84	23	6C	4
R26	A	85	9	6D	4
R27	A	91	15	6D	4
R28	A	87	20	6C	4
R29	A	95	20	6B	4
R30	A	72	14	7D	4
R31	A	85	11	6D	4
R32	A	196	89	6B	20
R33	A	132	112	6B	19
R34	A	133	41	5D	3
R35	A	133	33	5D	3
R36	B	95	38	8B	3
R37	A	93	48	8B	3
R38	B	164	29	1E	3
R39	A	175	33	2E	3
R40	A	101	20	1D	3
R41	A	100	30	2D	3
R42	B	164	34	1D	3
R43	A	191	41	2D	3
R44	B	160	30	1C	3
R45	A	153	39	2C	3
R46	A	105	20	1C	3
R47	A	100	34	2C	3
R48	A	150	44	1C	3
R49	A	144	56	2C	3
R50	A	134	48	1B	3
R51	A	136	56	2B	3
R52	A	147	44	1B	3
R53	A	151	56	2B	3
R54	A	140	48	1A	3
R55	A	140	56	2A	3
R56	A	103	38	5A	3
R57	B	208	42	4C	13
R58	B	175	54	7B	13
R59	B	205	35	4E	13
R60	A	198	35	4E	13
R61	A	205	35	4E	13
R62	A	175	23	4B	13
R63	A	179	20	3A	13
R64	A	179	32	3B	13
R65	A	175	29	4B	13
R66	A	201	43	4B	13
R67	A	194	47	4B	13
R68	B	208	44	3C	13
R69	A	182	29	2E	13
R70	B	208	54	4C	13
R71	B	208	56	4C	13
R72	B	175	43	6D	13
R73	B	175	42	7D	13
R74	B	175	47	7D	13
R75	B	176	57	6B	13
R76	B	176	59	7B	13
R77	B	188	85	4A	9
R78	B	179	107	2B	9
R79	A	195	122	3E	9
R80	A	186	123	3E	9
R81	B	175	93	3A	9
R82	B	191	82	4A	9
R83	A	184	112	2A	9
R84	A	180	110	2C	9
R85	A	189	114	4D	9
R86	A	180	75	6D	9
R87	A	175	87	5D	9
R88	B	177	96	3A	9
R89	A	179	82	5E	9
R90	B	176	90	6E	9
R91	A	180	72	6D	9
R92	A	182	86	6E	9
R93	B	186	121	1B	9
R94	B	184	116	2B	9
R95	B	184	120	1B	9
R96	B	176	68	4C	9
R97	B	176	70	5C	9
R98	B	174	105	3B	9
R99	A	194	116	4D	9
R100	A	201	113	2D	21
R101	B	206	101	3C	21
R102	B	200	116	7C	21

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Part	Side	X	Y	Sqr	Pg
R103	B	198	109	6C	21
R104	A	194	107	5B	21
R105	A	196	110	5A	21
R106	A	202	93	6B	21
R107	A	209	107	3E	21
R108	A	199	96	6B	21
R109	A	212	123	3E	21
R110	B	212	123	8B	9
R111	A	198	114	2F	21
R112	A	71	43	2D	12
R113	A	206	106	3E	21
R114	A	212	126	3E	21
R115	B	200	104	6C	21
R116	B	210	103	3C	21
R117	B	206	99	3C	21
R118	B	197	116	7C	21
R119	B	206	116	7C	21
R120	A	189	101	2C	22
R121	A	194	101	2D	22
R122	A	200	102	3C	22
R123	A	186	102	3D	22
R124	A	206	101	3C	22
R125	A	196	92	3D	22
R126	B	196	90	2A	22
R127	B	196	87	2B	22
R128	B	196	95	3B	22
R129	B	213	70	2A	23
R130	A	216	91	2C	23
R131	A	204	88	2D	23
R132	A	213	85	3C	23
R133	A	208	85	3D	23
R134	A	209	82	3C	23
R135	A	213	72	3D	23
R136	B	214	76	3A	23
R137	B	213	68	2B	23
R138	B	213	78	3B	23
R139	B	214	73	3B	23
R140	A	188	81	3D	20
R141	A	184	86	4A	20
R142	A	202	88	5B	20
R143	A	206	81	6B	20
R144	A	212	74	7C	20
R145	B	192	75	3D	20
R146	A	177	92	2B	20
R147	A	175	95	2C	20
R149	A	193	70	3D	20
R150	A	208	66	4E	20
R151	B	196	69	4D	20
R152	A	189	75	3D	20
R153	A	201	72	3D	20
R154	A	189	91	4C	20
R155	A	191	84	6C	20
R156	A	193	80	6C	20
R157	A	209	76	7B	20
R158	A	194	77	6B	20
R159	B	182	98	4B	20
R160	A	193	88	4B	20
R161	A	102	86	5B	6
R162	A	110	67	3B	6
R163	A	110	72	3B	6
R164	A	123	81	7D	6
R165	A	75	55	7B	7
R166	B	90	75	2B	6
R167	B	90	67	2B	6
R168	B	90	70	2B	6
R169	B	90	72	2B	6
R170	A	93	72	2B	6
R171	A	93	70	2A	6
R172	A	75	46	2D	12
R173	A	93	67	2A	6
R174	A	93	75	2A	6
R175	A	120	78	7D	6
R176	A	119	60	2E	7
R177	A	131	60	2F	7
R178	A	115	57	6C	7
R179	A	92	116	3C	14
R180	A	89	88	5E	6
R181	A	133	68	8C	6
R182	B	139	86	8A	6
R183	A	139	81	7C	6
R184	B	142	123	7A	8
R185	B	26	120	1B	8
R186	A	134	83	7A	6
R188	A	116	81	5B	6
R189	B	149	73	5C	6
R190	B	83	114	4D	14
R191	A	110	70	3C	6
R192	A	98	64	7B	7
R193	A	80	67	5D	7
R194	A	119	90	6B	6
R195	A	84	77	5D	7
R196	A	121	66	7B	7
R197	A	127	62	7B	7
R198	B	98	57	6B	7
R199	A	89	60	3B	7
R200	B	111	57	6C	7
R201	A	111	64	2B	7
R202	A	98	60	3B	7
R203	A	91	63	3B	7
R204	A	149	77	5C	6
R205	A	94	56	3C	7
R206	B	91	56	3C	7
R207	B	111	61	2C	7
R208	A	85	60	6B	7
R209	A	84	67	5D	7
R210	A	123	67	8C	7
R211	A	104	83	5B	6
R212	A	47	50	4D	6
R213	A	48	57	3D	6
R214	A	42	65	00	11
R215	A	81	42	2E	12
R216	A	64	78	00	11
R217	A	70	33	2E	12
R218	A	74	30	2D	12
R219	A	74	36	2D	12
R220	A	39	53	00	11
R221	A	41	39	4B	10
R222	A	31	20	2C	10
R223	A	27	78	00	11
R224	A	29	11	2C	10
R225	A	61	39	00	10
R226	A	57	25	00	10
R227	A	54	25	00	10
R228	A	51	25	00	10
R229	A	49	25	00	10
R230	A	54	39	00	10
R231	A	43	39	00	10
R232	A	21	20	1D	10
R233	A	21	22	1D	10
R234	A	47	78	1A	11
R235	A	60	30	00	10
R236	A	42	78	00	11
R237	A	44	11	00	10
R238	A	23	35	3E	10
R239	A	23	37	3E	10
R240	A	21	17	1D	10
R241	A	62	8	00	10
R242	A	59	8	00	10
R243	A	57	8	00	10
R244	B	31	74	00	11
R245	A	54	8	00	10
R246	B	13	76	3B	11
R247	B	13	90	3B	11
R248	B	18	92	3B	11
R249	B	21	92	3B	11
R250	A	21	83	3B	11
R251	B	13	84	3B	11
R252	A	17	80	3B	11
R253	A	57	51	3C	12
R254	B	31	72	00	11
R255	A	71	29	4B	12
R256	A	21	25	2D	10
R257	A	17	61	00	11
R258	A	53	73	00	11
R259	A	19	53	1D	11
R260	B	57	73	00	11
R261	A	57	61	00	11
R262	A	47	61	00	11
R263	B	83	118	4D	14
R264	B	80	103	3C	14
R270	A	79	91	3D	5
R272	A	79	89	3E	5
R274	A	79	85	2D	5
R275	A	79	82	2E	5
R276	A	142	107	7D	8

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R277	A	146	108	6E	8	R333	A	115	110	2B	19	U5-A	B	213	84	2C	23
R278	A	149	108	7E	8	R334	A	109	110	2C	19	U5-B				2D	23
R279	B	151	105	7B	8	R336	A	127	115	3D	19	U5-C				3E	23
R280	B	145	105	7B	8	R337	B	142	103	4E	19	U6-A	B	128	56	7C	7
R281	B	137	124	8A	8	R338	B	136	114	4D	19	U6-B				2E	7
R282	B	145	124	7A	8	R339	A	120	104	3D	19	U7-A	B	85	56	5B	7
R284	A	139	107	6D	8	R340	A	124	111	3D	19	U7-B				3E	7
R285	A	146	99	5D	8	R341	A	135	109	4C	19	U8-A	B	146	103	6D	8
R286	A	151	100	5E	8	R342	B	139	109	6C	19	U8-B				6E	8
R287	A	46	99	2C	16	R343	B	133	110	6C	19	U8-C				8E	8
R288	A	41	103	2D	16	R344	A	130	106	7B	19	U9-A	B	46	99	2C	16
R289	A	50	102	3C	16	R345	B	128	106	6B	19	U9-B				2D	16
R290	A	43	105	3D	16	R346	A	110	99	4B	19	U9-C				3E	16
R291	A	33	100	3C	16	R347	A	104	105	4B	19	U10-A	B	23	100	2C	18
R292	A	41	105	3D	16	R348	A	95	99	2E	14	U10-B				2D	18
R293	B	36	108	2A	16	R349	A	105	121	6C	14	U10-C				3E	18
R294	B	36	104	2B	16	R350	B	105	126	6C	14	U11-A	B	76	100	2C	17
R295	B	36	113	3B	16	R351	A	120	124	7C	14	U11-B				2D	17
R296	B	15	120	2A	18	R352	B	120	128	7C	14	U11-C				3E	17
R297	A	23	103	2C	18	R353	A	120	118	7C	14	U12-A	B	46	109	2C	15
R298	A	18	100	2D	18	R354	B	94	112	2C	14	U12-B				2D	15
R299	A	24	106	3C	18	R355	B	95	110	2C	14	U12-C				4E	15
R300	A	13	105	3D	18	R356	B	98	114	2C	14	U13-A	B	100	99	2E	14
R301	A	22	110	3C	18	R357	A	86	99	3B	14	U13-B				2E	14
R302	A	13	109	3D	18	R358	A	83	103	3B	14	U13-C				4F	14
R303	B	15	113	3A	18	R359	A	100	99	2F	14	V1	B	121	39	6D	3
R304	B	14	123	2B	18	R360	A	65	127	6B	14	V2	B	78	46	7D	3
R305	B	14	109	3B	18	R361	A	98	111	3E	14	V3	B	116	46	5B	3
R306	B	14	115	3B	18	R362	B	89	108	4B	14	V4	B	127	43	5D	3
R307	B	64	121	2A	17	R363	A	90	105	4B	14	V5	A	180	91	3C	20
R308	A	76	100	2C	17	R364	A	75	127	6B	14	V6	B	78	38	7C	3
R309	A	71	103	2D	17	R365	A	104	107	3F	14	V7	B	115	41	6B	3
R310	A	65	102	3C	17	R366	A	100	106	2E	14	V8	B	182	118	2A	9
R311	A	81	109	3D	17	R367	A	109	107	2F	14	V9	B	179	111	2B	9
R312	A	63	103	3C	17	R368	B	90	110	3C	14	V10	B	185	103	2C	9
R313	A	78	109	3D	17	R369	B	81	114	4D	14	V11	B	185	109	2A	9
R314	B	71	121	3A	17	R370	B	81	120	4D	14	V12	B	211	110	6A	21
R315	B	64	119	2B	17	R371	A	88	116	5C	14	V16-A	B	192	72	4D	20
R316	B	75	121	3B	17	R372	B	88	119	5C	14	V16-B				7B	20
R317	B	68	122	3B	17	R373	A	183	98	3C	20	V17-A	A	189	95	5A	20
R318	A	47	108	2C	15	R374	B	193	92	4A	20	V17-B				5A	20
R319	A	41	109	2D	15	R375	A	137	117	3C	19	V18	A	200	66	4E	20
R320	A	51	109	3C	15	R376	B	113	106	4A	19	V19	B	217	69	8C	20
R321	A	44	119	3D	15	U1-A	B	175	23	3B	13	V20	B	103	84	5B	6
R322	A	51	112	3C	15	U1-B				3B	13	V21	B	111	77	5B	6
R323	A	46	122	3D	15	U1-C				4E	13	V22	B	144	74	5C	6
R324	B	45	128	3A	15	U2-A	B	175	82	6D	9	V23	B	152	82	4C	6
R325	B	41	128	2B	15	U2-B				6E	9	V24	B	142	75	5C	6
R326	B	52	128	3B	15	U2-C				2E	9	V25	B	122	90	6B	6
R327	A	124	107	3D	19	U3-A	B	194	114	2E	21	V30-A	B	130	114	4D	19
R328	A	106	101	4A	19	U3-B				2E	21	V30-B				7B	19
R329	A	115	103	5B	19	U3-C				6E	21	V31	B	193	86	4B	20
R330	A	132	110	6B	19	U4-A	B	194	101	2C	22	V32	B	137	105	4E	19
R331	A	138	99	7C	19	U4-B				2D	22	V33	B	141	99	8C	19
R332	B	130	117	3D	19	U4-C				3E	22	V34	B	83	109	4B	14

ROHDE & SCHWARZ	AEI	Datum Date	XY-Liste fuer XY-list for	Sach-Nummer Stock-Nr	Blatt Page
	-02-	08.12.94	EE RF FRONTEND	1051.2707.01 XY	5+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
V35	A	135	117	3C	19	V37-A	A	115	105	5A	19	Z1	B	199	17	2C	13
V36	B	104	104	4B	19	V37-B				5A	19						

ROHDE&SCHWARZ

Stromläufe
Bestückungspläne

Circuit diagrams
Component plans

Schémas de circuit
Plans des composants

095.1000 Bl. 4

X123
RFIN2
−69dBm...
0dBm

−5 dB

DIAG

+14 dB

B

RFIN2

RFIN2

RXDECT

MATCHING

RXATT

0/−20 dB

RXATT

0/−10 dB

RXAMP

DIAG

0/+20 dB

X124
RFRX
−49dBm...
−15dBm

POWER ATTENUATOR

A

10dB / 50W

Z1

RFOFF

RFOFF

−3dB (MOD.02)
−13dB (MOD.04)

−3dB
−15dB
−3dB

ONLY MOD.04

−5dB

X120
RFIN/OUT
IN : −28dBm...(MOD.02)
−18dBm...(MOD.04)
+41dBm
OUT: −124dBm...
−15dBm

TSENSE1
X12 B15

MULTPLX

SHCONTROL
11

D
A

F

TBUSRES1
X12 C14

TBUSPOWERINT
X12 C2

SH

PEAK DETECT

SH

S/H

SH

POWER
X12 C6

RES1POWER
X12 C4
RES2POWER
X12 C8
IFPOWER
X12 C10

E

TXATT

0/−20 dB

TXATT

0/−10 dB

TXATT

0/−5 dB

TXATT

0/−20 dB

TXAMP

DIAG

0/+20 dB

TXDECT

MATCHING

ONLY MOD.02

ONLY MOD.02

TXPOWER
X12 C12

D

BITRFOUT2

BITRFOUT2

0 dB

X121
RFTX
−37dBm...
0dBm

X122
RFOUT2
−105dBm...
+10dBm

C

SW.*

DIAG

SERBUS DECODER
38H

PAR

EEPROM

POWER

+30V
+15,3V
−15,3V
+7,7V
+5,2V
+5VREF

4

DIAGNOSE
X12 B2

BRESETDRV
X12 B13

SERBCLK X12 B6
SERBDATA X12 B7
SERBINT X12 B9
SERBSYNC X12 B11

X12 A13
X12 A11
X12 A4
X12 A9
X12 A6,7
X12 A2

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE 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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

ROHDE&SCHWARZ

ZU GERAET CMD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/TOP.1

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 1 + . 23

REG.I.V. 1050.9008

ERSTE Z. 1050.9008.01

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

RFIN2
X123
SMC

RXPATH_20
RFIN2
RFRX
RXPOWER
RFIN
RXCONTROL
DIAG

RFRX
X124
SMC

SAMPLEHOLD_18
IFPOWER
RES1POWER
RES2POWER
DIAG
SHCONTROL
RXPOWER
POWERINT
POWER
CONTR

TBUSPOWERINT
POWER

RFIN/OUT
X120
SMA

DIPLEXER_21
RFIN
DIAG
RFIN/OUT
DIPLCONTROL
RFOUT
TEMPSENSE

SERBUSCONTROL_22
RXCONTROL
SHCONTROL
CONTR
DIPLCONTROL
TRIGCONTROL
SERBUS
TXCONTROL
DIAGNOSE
DIAG

TRIGGERLOGIC_17
CONTR
TRIGCONTROL

DIAGNOSE
SERBUS
DIAG

TXPATH_19
TXCONTROL
DIAG
TSENSE1
RFOUT
TXPOWER

TXPOWER

RFOUT2
X122
SMC

RFTX
X121
SMC

RFOUT2
RFTX

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

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TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	MEZ1	DATUM	NAME
	BEARB.		EI
	GEPR.		EI
	NORM		
	PLOTT	98-08-27	EICHFELD

ROHDE&SCHWARZ

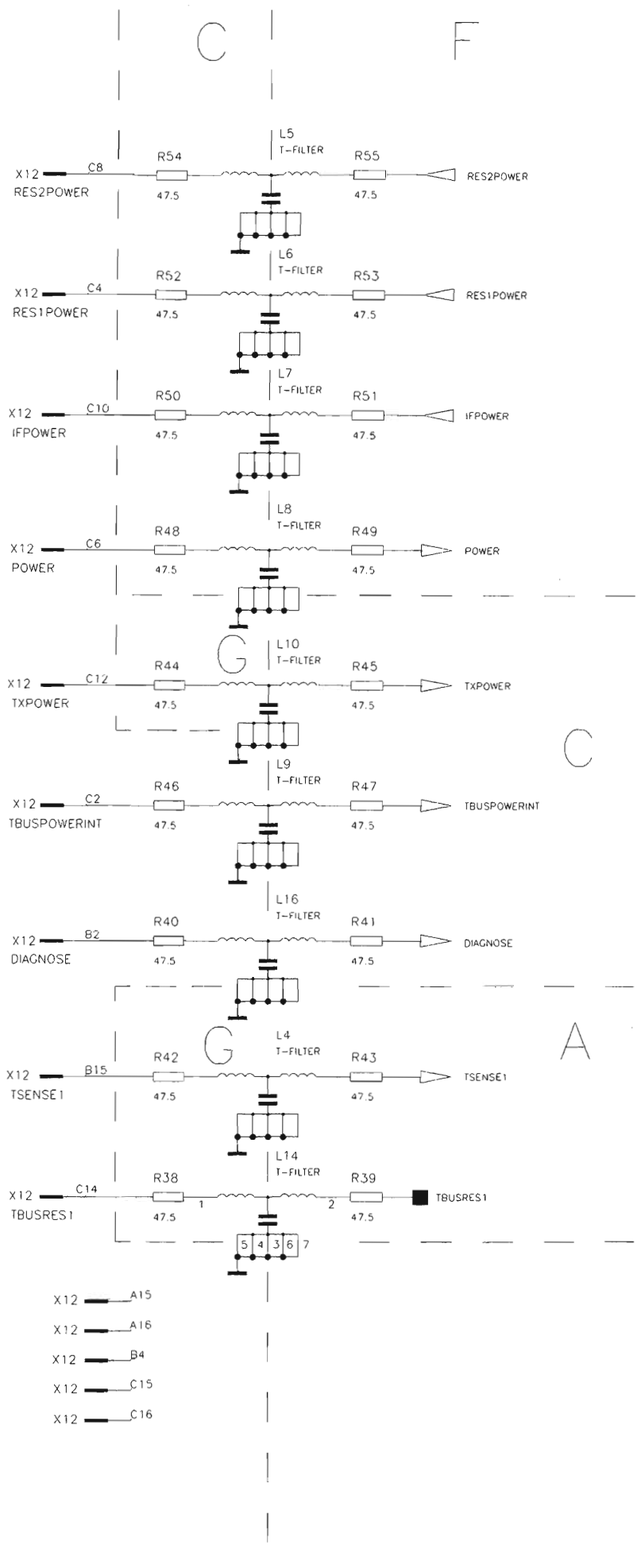
ZU GERAET CMD

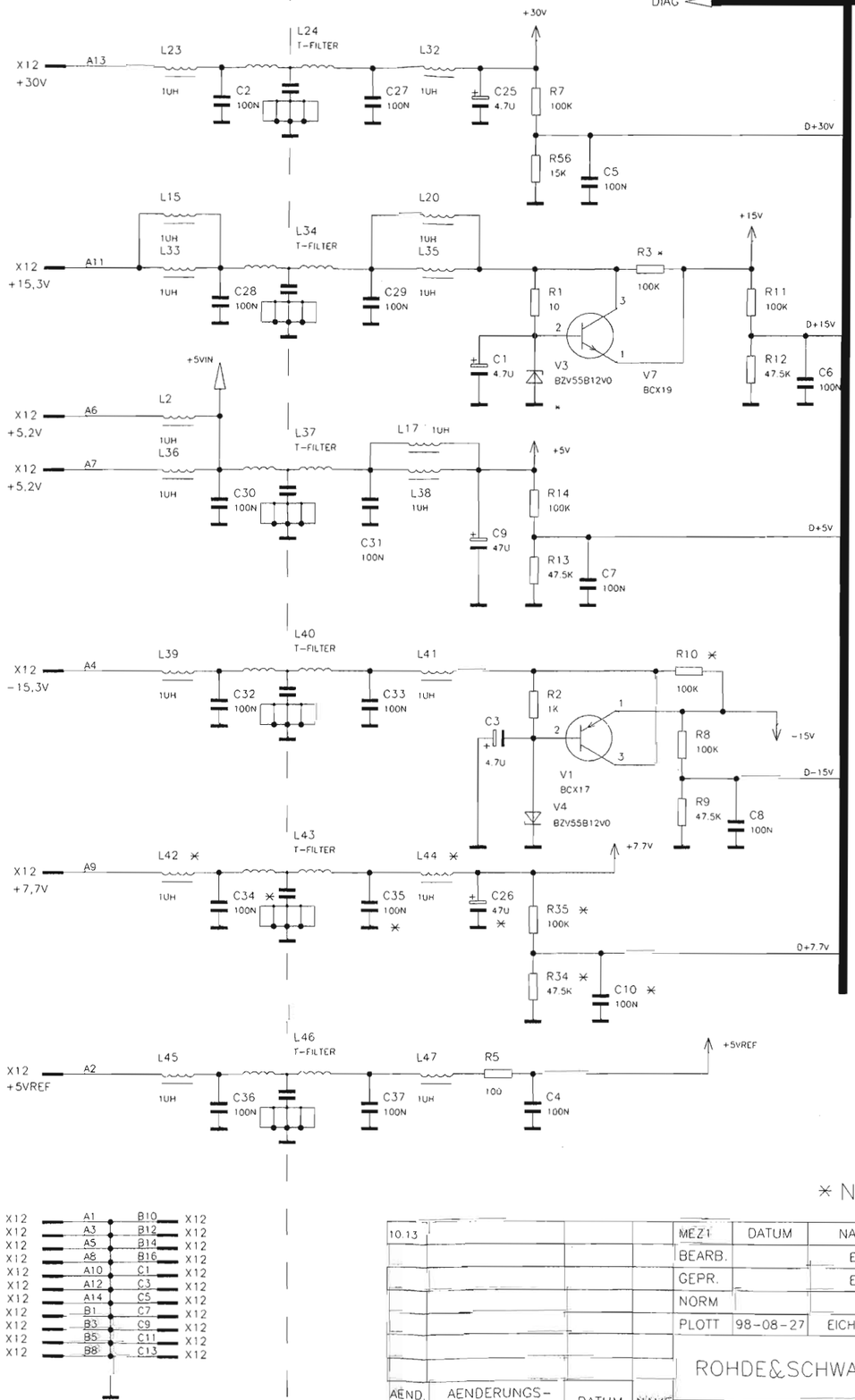
BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/TOP.2

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 2 + . 23

REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01





FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

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

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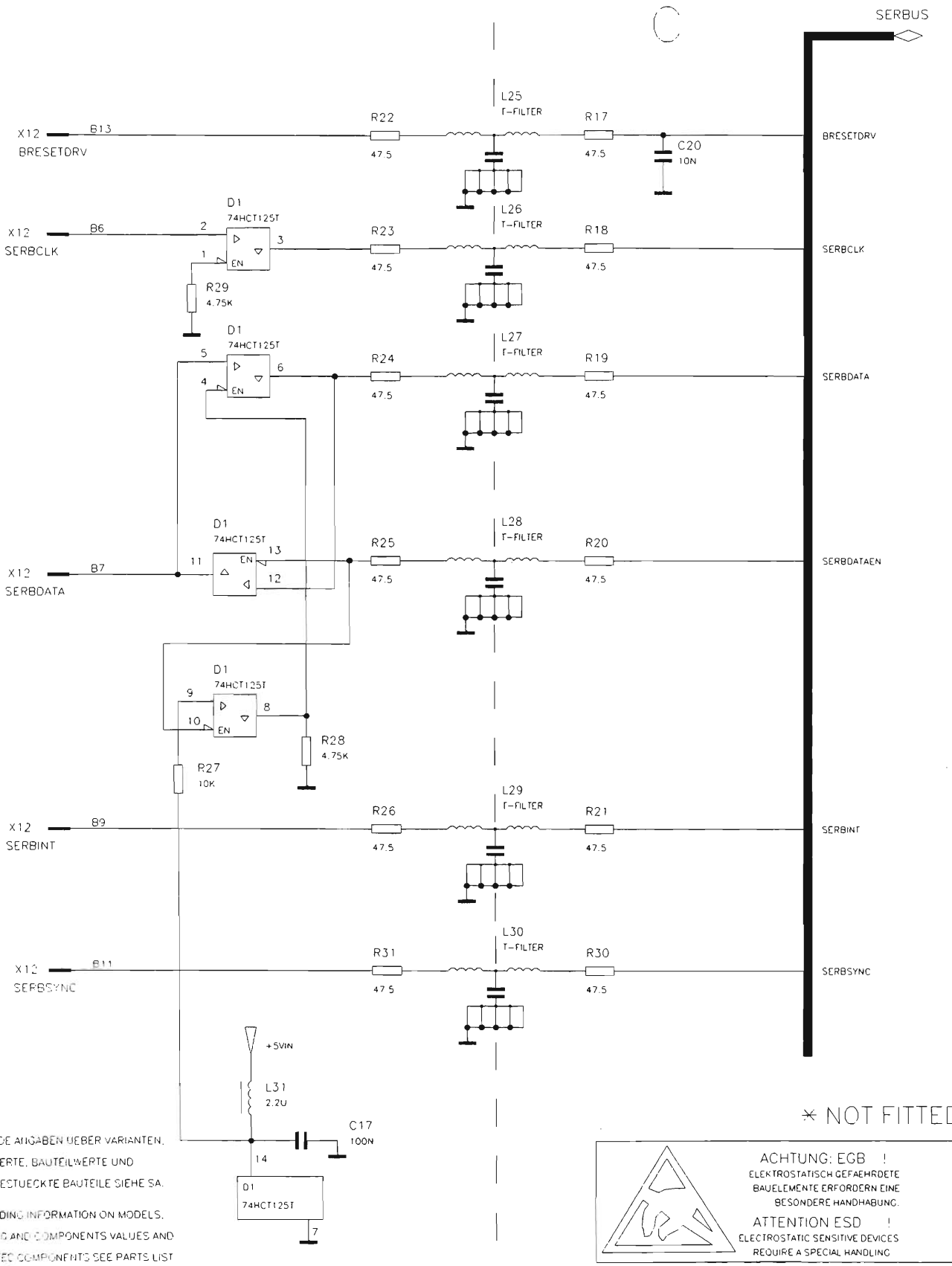
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

* NOT FITTED

10.13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/TOP.3
				PLOTT	98-08-27	EICHFELD	ZEICHN.-NR.
				ROHDE&SCHWARZ			1051.2707.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			BLATT-NR. 3 + 23
				REG.I.V. 1050.9008			ERSTE Z. 1050.9008.01



* NOT FITTED

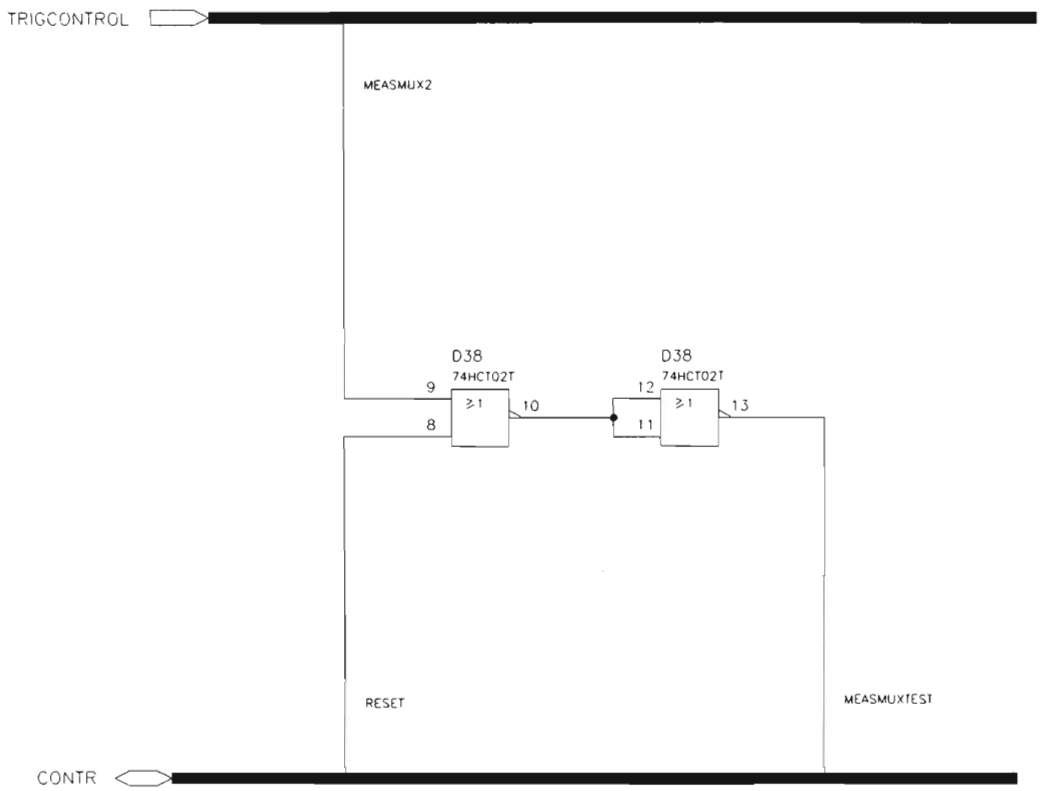
BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

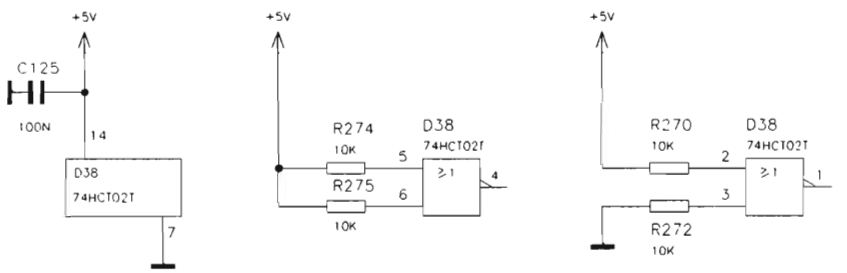
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

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

10.13.				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/TOP.4
				PLOTT	98-08-27	EICHFELD	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD		REG.I.V 1050.9008S	ERSTE Z. 1050.9008 01

BLATT-NR. 4 + 23





ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE 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.

* NOT FITTED

10.13.				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/TRIGGERLOGIC_17/TRIGGERLOGIC.1
				PLOTT	98-08-27	EICHFELD	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD		REG.I.V 1050.9008	ERSTE Z. 1050.9008.01

BLATT-NR. 5 +

R174 100K → RES2
R173 100K → RES1
R171 100K → IF
R170 100K → RX

RXPOWER R169 0
IFPOWER R168 0
RES1POWER R167 0
RES2POWER R166 0

D12 74HCT4051T MUXDX 8M
MEASMUX0
MEASMUX1
R162 0
R163 0
R191 0
VREF

N9 TL072ACD
BYPASS

R211 10K
V20 HSMS2810
R161 100
V21 HSMS2810
N21 LT1056S8
R194 1K
V25 BZV55B10V0

R188 200
C85 1U
V22 BC850B
V23 HSMS2800
R204 1K
R189 2.43K
V24 BZV55B10V0
−15V

SH OFFSET

R187 1K
R186 30.1K
R182 10
+15V
−5V
C97 100N

N11 LF398S8
OFFS VDD VSS
S_H*
C98 22N
R183 10
C96 100N
−15V

N22 OP27GS
R175 10K
R181 100 POWER
R164 10K

D14 DG419DY
BYPASS

DIAG
CONTR
SHCONTROL
BYP

MEASMUXTEST
DS_H* → R213 1K → S_H*
DRESET → R212 1K → RESET
RESET
S_H*

C93 100N +5V
C104 100N −5V
D12 74HCT4051T
C107 100N +15V
N9 TL072ACD
C108 100N −15V
C92 100N +5V
C95 100N +5V
D14 DG419DY
C94 100N −15V
C122 100N +15V
N22 OP27GS
C126 100N −15V
C124 100N +15V
N21 LT1056S8
C123 100N −15V

* NOT FITTED

N9 TL072ACD
R180 10K

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.

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

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

ZU GERAET CMD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/SAMPLEHOLD_18/SAMPLEHOLD.1

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 6 + 23

REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01

DIAG

D15
DG419DY
DACREF

VREF
R201 10K
R199 3.32K
R203 10K
R202 10K
N10 TL074ACD
+5VREF
R206 20K
R205 20K
N10 TL074ACD
-VREFDAC
R207 1M
C106 100N

DTRIGLEVEL
DTRIGTHRESHOLD
R165 1K
VREF
R208 357K *
U7
PM7533GS
DAC0 13
DAC1 12
DAC2 11
DAC3 10
DAC4 9
DAC5 8
DAC6 7
DAC7 6
DAC8 5
DAC9 4
LSB
MSB
RFB 16
REF 15
OUT1 1
OUT2 2
-VREFDAC
C105 100P
R198 100
N10 TL074ACD
R192 100
R197 100K
+5V
C103 100N
R196 475
U6 LM2110
C102 100P
C86 100N
R210 0
POWERINT

DTRIGLEVEL
R178 1K
D13
74HCT4051T
MUXDX
TRIGMUX0 11
TRIGMUX1 10
TRIGMUX2 9
INH 6
GND 8
8M
RX 13
IF 14
RES1 15
RES2 12
VREF
R193 0
R195 0
R209 0
N10 TL074ACD
R200 0

SHCONTROL

C87 100N
N10 TL074ACD
C88 100N
-15V

R176 10
C90 100N
U6 LM2110
C91 100N
R177 10
-15V

C109 100N
C110 100N
D13 74HCT4051T
-5V

C89 100N
U7 PM7533GS

C101 100N
C100 100N
D15 DG419DY
C99 100N
-15V

* NOT FITTED

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.

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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10.13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			
				PLOTT	98-08-27	EICHFELD	TOP/SAMPLEHOLD_18/SAMPLEHOLD.2
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD			REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR. 7 + . 23

E

D

TXATT20DB1_36

TXATT10DB_34

TXATT5DB_39

TXATT20DB2_35

TXPOWERAMP20DB_38

RFTX

C127
5R62

R185
220

RF1 RF2 ATT

RFIN RFOUT AMPM DIAG

C129
33N

C128
33N

D41
SW239

J1 J2 J3 CRTL 2 CRTL 1 GND GND GND

C130
100P

C131
100P

-ATT5

C132
33N (MOD.02)
220P (MOD.04)

R184
0

RFOUT2

C196
0.5P*

R282
220

R281
1K *

R280
100

R279
100

D40
SW239

RFOUT

C73
100P

C75
100P

TXPEAKDETECTOR_37

RF VIDEO CONTROL TIME

TXPOWER

TXATT20DB2

TXATT10DB

TXATT5DB

TXATT20DB1

TXAMP20DB*

DPOWAMP

TXCONTROL

DIAG

TXDECTOFF

TTXDECT

BITRFOUT2

+5V

R285
10K

U8
LM2903D

R276
1K

-ATT*5

R284
47.5K

R286
10K

R278
1K

-ATT5

R277
47.5K

+15V

-7V

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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* NOT FITTED

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

ROHDE&SCHWARZ

ZU GERAET CMD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/TXPATH_19/TXPATH.1

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 8 + . 23

REG I.V. 1050.9008 ERSTE Z. 1050.9008.01

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

RFIN2
C42 33N
L52 2.2N
C195 0.5P (MOD.02) 1P8 (MOD.04)
R95 39
R93 150
R94 150
-5db
+15V
R83 6.81K
V11 BZV55B2V7
C46 10P
C50 100N
V8 HSMS2820
C38 33N
R78 100K
R98 47.5K
V9 HSMS2820
C47 10P
C51 100N
R84 6.81K
V10 BZV55B2V7
-15V
VAMPIN2
R81 56.2
C54 100N
R88 56.2
L1 47NH (MOD.02) 330NH (MOD.04)
C48 33N
N2 MSA0986
R82 56.2
C55
R77 100N 56.2
L3 47NH (MOD.02) 330NH (MOD.04)
C49 33N
N3 MSA0986
D4 SW239
J2 J3 J1
CRTL 1 CRTL 2
GND GND GND
C83 100P
C82 100P
-ATT1
-ATT*1
C39 33N
C40 33N
RXPEAKDETECTOR 63
RF VIDEO CONTROL TIME
RXPOWER
RXATT20DB 66
RXATT10DB 65
RXAMP20DB 64
RF1 RF2 ATT
RFIN RFOUT AMP* DMG
C43 5R62
RFRX
R110 220
D5 SW239
RFIN
R96 100
R97 100
C44 100P
C45 100P
RXCONTROL
DIAG
DPRO1
RXATT20DB
RXDECTOFF
TRIDECT
RXATT10DB
RXAMP20DB*
DRXAMP
RFIN2*
DIN2AMP
R85 47.5K
N4 LP2951CM
SENSE 5V TAP VOUT FB SD \ERROR
R99 100K
R79 10K
R80 1.1K
C41 1U
VAMPIN2
C53 100N
L11 10U
C52 1U
N4 LP2951CM
U2 LM2903D
-7V
R87 10K
R89 10K
U2 LM2903D
(MOD.02)
(MOD.04)
R586 33K
R86 47.5K
R86 HSMS2800
R590 33K
R90 47.5K
R90 HSMS2800
R91 1K
R92 1K
-ATT*1
-ATT1
* NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE 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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/RXPATH_20/RXPATH.1

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 9 + 23

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01

SERBUS

SERBDATA BRESETDRV SERBSYNC SERBCLK SERBDATAEN SERBDATA SERBINT

38 HEX

D17
SERBUS-D

SERCLK 44
SYNC 43
RESET 5
TRISTATE 6
R235 10K
DATAIN 4

+5V
R225 10K 7 A1
R226 10K 8 A2
R227 10K 9 A3
R228 10K 10 A4
R229 10K 16 A5
R230 10K 17 A6
R231 10K 18 A7

R237 10K 35 MASK
R241 10K 39 IR0
R242 10K 38 IR1
R243 10K 37 IR2
R245 10K 36 IR3

SERIN1 29 SERIN1
15 SERIN2

NANDTREE 40
DATAEN 3
DATAOUT 2
INTEN 42
INT 41
WR1 30 WR1
WR2 14
RD1 31 RD1
RD2 13
CLK1 33 CLK1
CLK2 11
IRQ 32
SEROUT 19 SEROUT
D0 20
D1 21
D2 22
D3 24
D4 25
D5 26
D6 27
D7 28

+5V
R221 10K

D19 74HCT125T
2 1 EN 3
R222 10K

+5V
R224 10K

D20 74HCT273T
1 11 R C1
3 4 7 8 13 14 17 18
2 5 6 9 12 15 16 19

D19 74HCT125T
5 4 EN 6

D18 X24C16
10 SCL
2 3 5 A0 A1 A2
SDA 9
TEST 12

R240 10K * R232 10K * R233 10K * R256 10K
+5V

+5V
R239 10K
D19 74HCT125T
9 10 EN 8

R238 10K
D19 74HCT125T
12 13 EN 11

+5V
C114 100N 23 34
D17 SERBUS-D 1 12

+5V
C112 100N 13
D18 X24C16 6

+5V
C115 100N 14
D19 74HCT125T 7

+5V
C116 100N 20
D20 74HCT273T 10

* NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/SERBUSCONTROL_22/SERBUSCONTROL.1

ROHDE&SCHWARZ

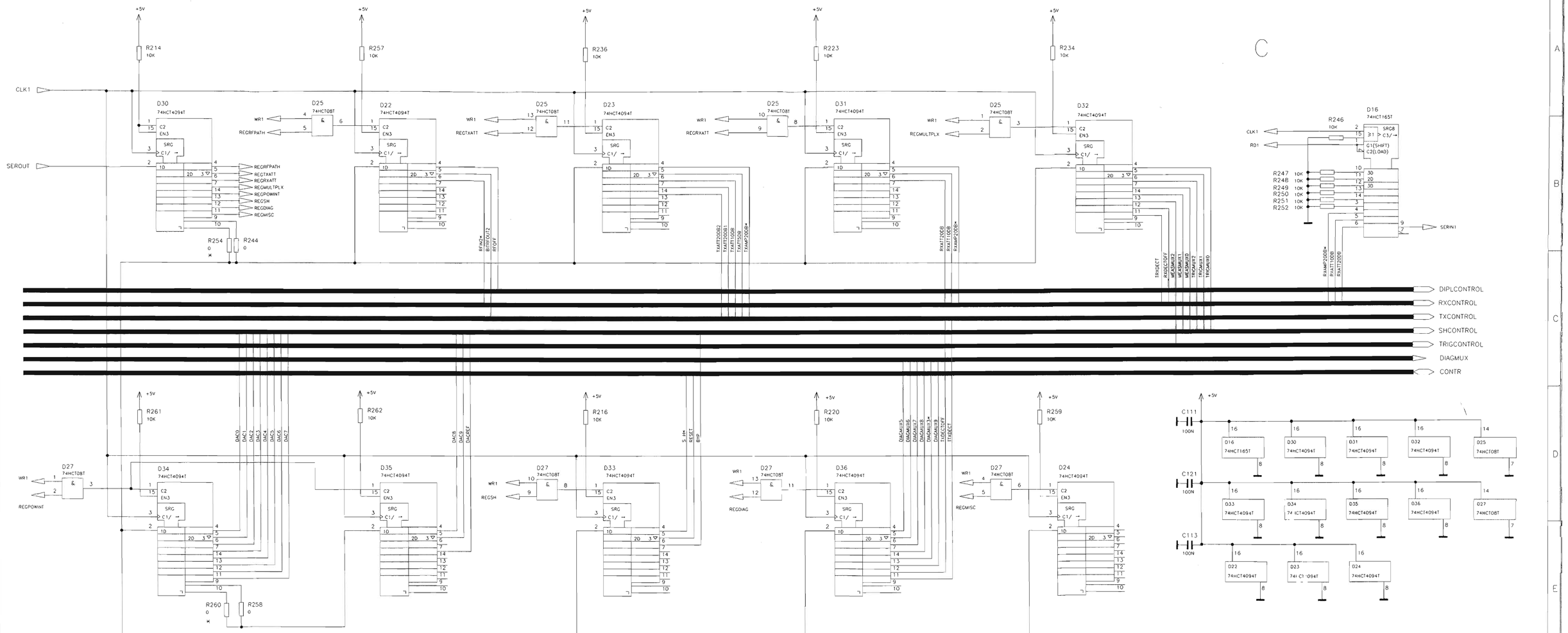
ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 10 + 23

ZU GERAET CMD

REG.I.V. 1050.9008

ERSTE Z. 1050.9008.01



FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
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.

* NOT FITTED

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

ROHDE&SCHWARZ

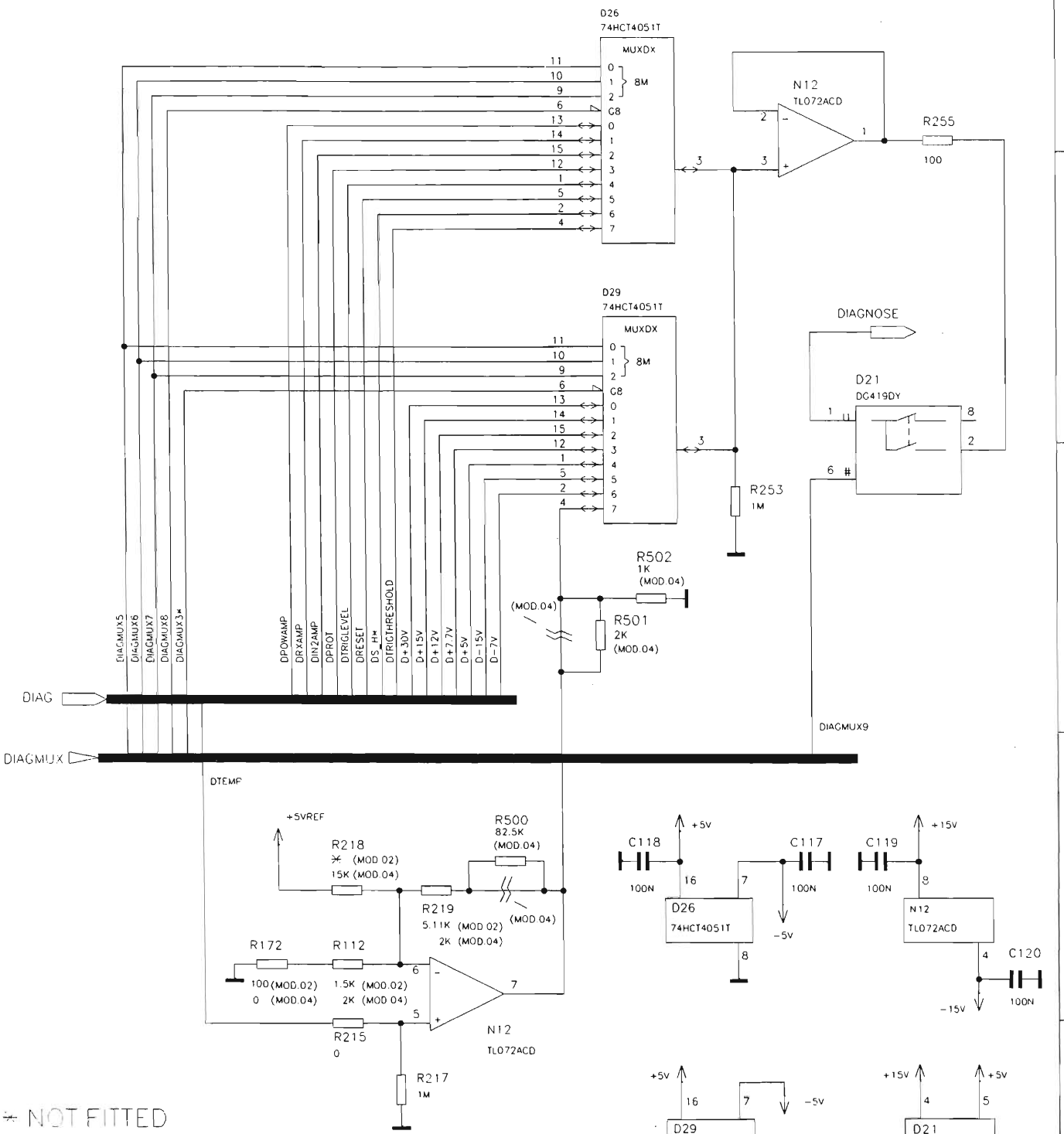
ZU GERAET CMD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/SERBUSCONTROL_22/SERBUSCONTROL 2

ZEICHN.-NR.
1051.2707.01 S

REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR
11 + 23



* NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

	MEZI	DATUM	NAME
	BEARB.		EI
	GEPR.		EI
	NORM		
	PLOTT	98-08-27	EICHFELD

BENENNUNG

RF FRONTEND

RF FRONTEND

TOP/SERBUSCONTROL_22/SERBUSCONTROL.3

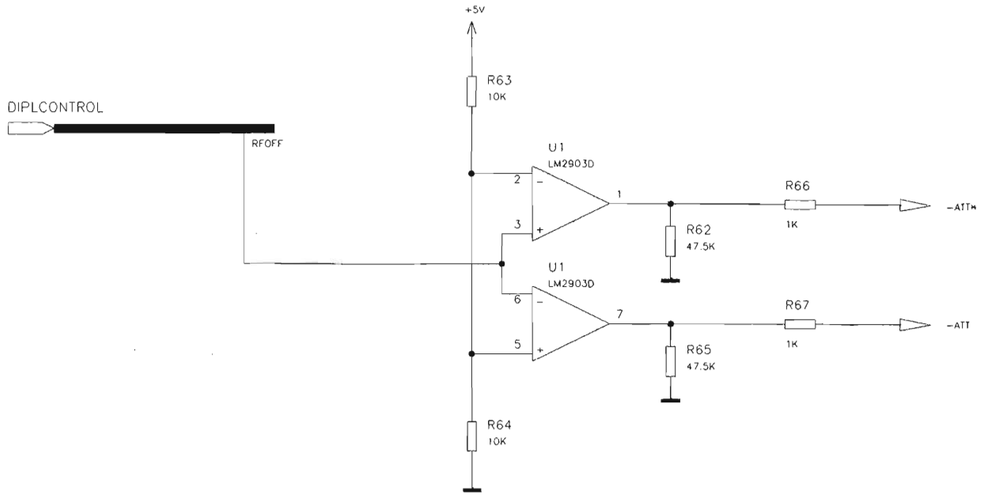
ROHDE&SCHWARZ

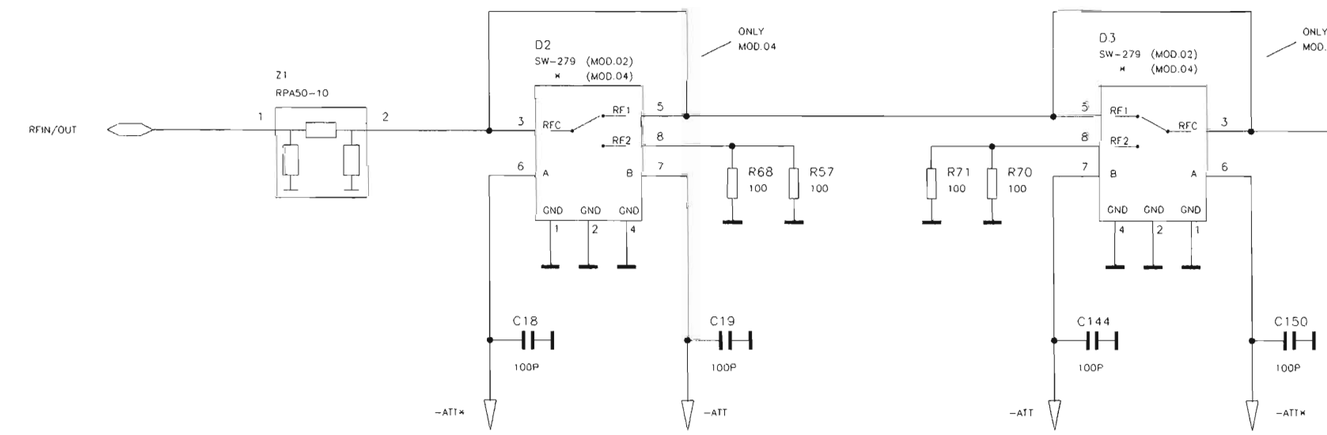
ZEICHN.-NR. 1051.2707.01 S

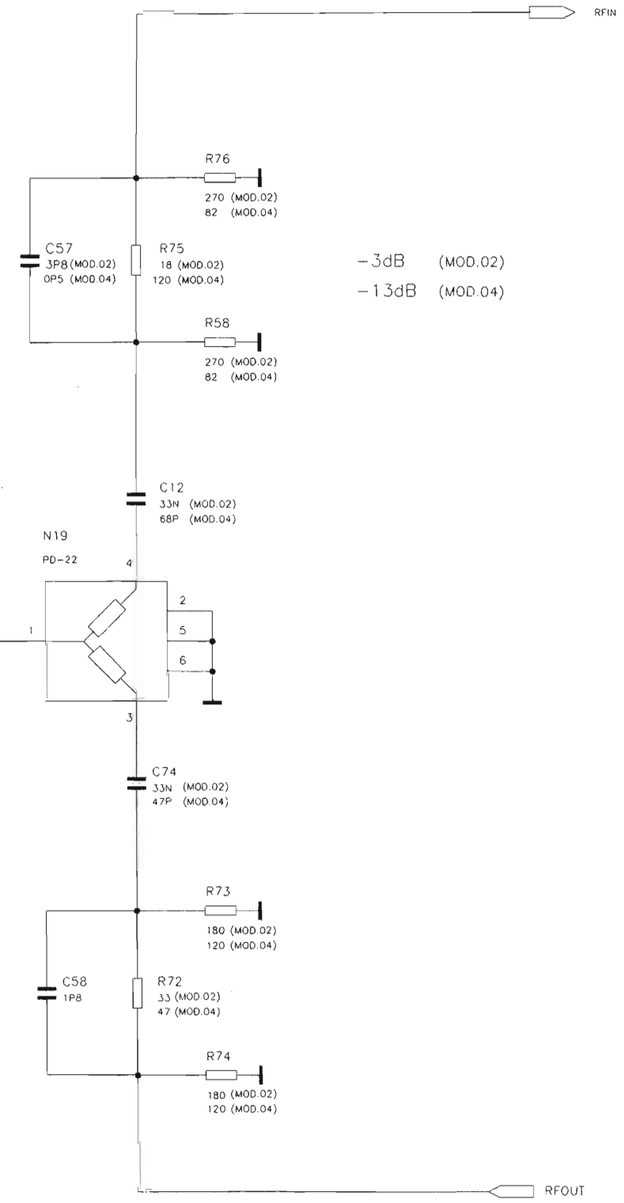
BLATT-NR. 12 +

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME

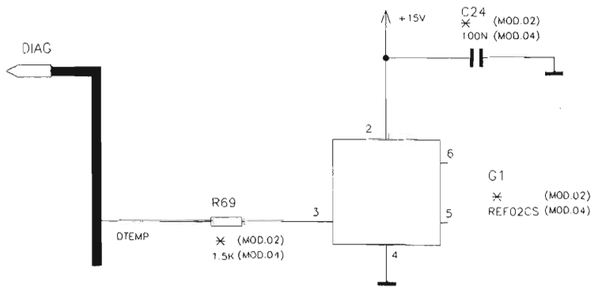
ZUGERAET CMD | REG.LV 1050.9008 | ERSTE Z. 1050.9008.01

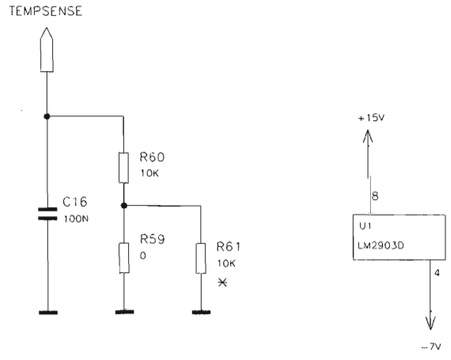






-3dB (MOD.02)
-13dB (MOD.04)





* NOT FITTED

10.13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/DIPLEXER_21/DIPLEXER.1
				PLOTT	98-08-27	EICHFELD	ZEICHN.-NR. 1051.2707.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			BLATT-NR. 13 + .23
				ZU GERAET CMD		REG.I.V. 1050.9008	ERSTE Z. 1050.9008.01

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

D50
SW339

RFIN

C154 100P

C163 100P

-AMP*

-AMP

D51
SW339

RFOUT

C172 100P

C173 100P

-AMP

-AMP*

+15V

C162 100N

L51 1UH

V34
BSS87

C155 100N

N18
LP2951CM
SENSE
5V TAP
VOUT
FB
SD
\ERROR

C156 1U

R363 100K

R362 100

R364 100K

DIAC

R360 47.5K

R358 10K

R357 392

R264 750

R355 680

R354 15

C170 6.8P

R356 680

R179 100 *

C151 100N *

R368 82.5 *

L18 330N *

R371 61.9

C159 100N *

R372 61.9

L22 47NH

R349 61.9 *

C160 100N *

R350 61.9 *

L48 330N *

C161 100P *

R353 0

R351 61.9

R352 61.9

L49 47NH

+8dB

C164 220P

N20
MSA0986

0R

C152 220P

R190 0

R263 0

R369 8.25

1.5nH

C171 0.3P

R370 8.25 *

L21 1.5N *

C166 220P

+8dB

N17
MSA0986

+25dB

C168 220P

N16
SNA486

0R

C165 220P

C503 0.7P

+8dB

N15
ERA-5SM

R503 20

C167 220P

+5V

R348 10K

U13
LM2903D

R361 1K

-AMP*

R366 47.5K

AMP*

U13
LM2903D

R365 1K

-AMP

R367 47.5K

R359 10K

C158 100N

+30V

L50 10U

C157 100N

N18
LP2951CM

+15V

U13
LM2903D

-7V

* NOT FITTED

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ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

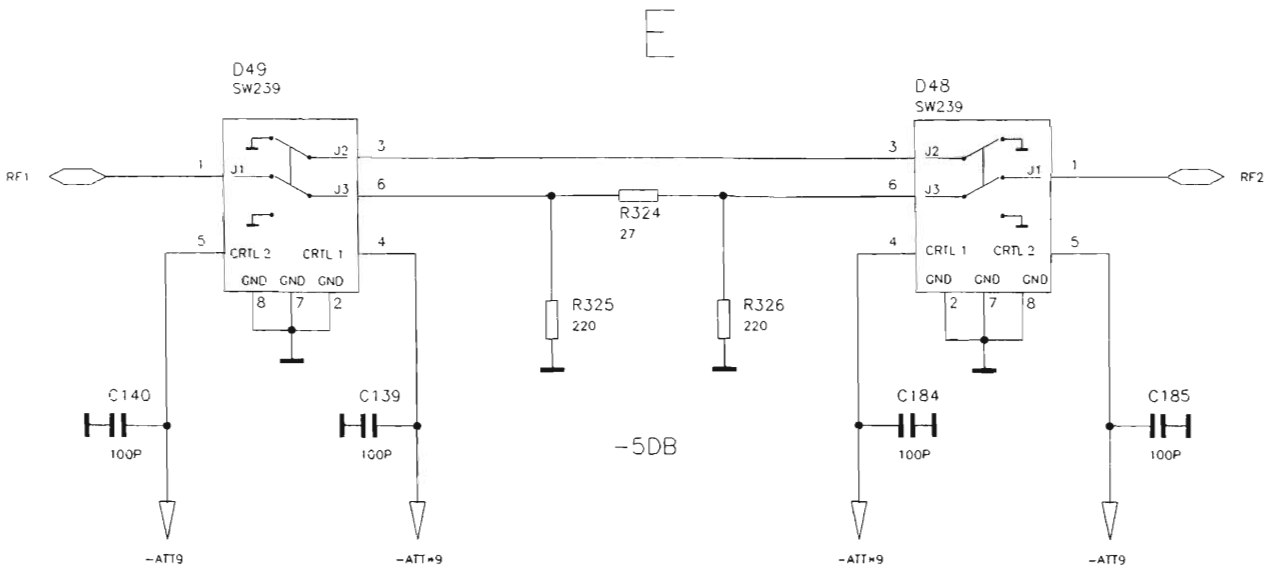
BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/TXPATH_19/POWERAMP20DB_38/POWERAMP20DB.1

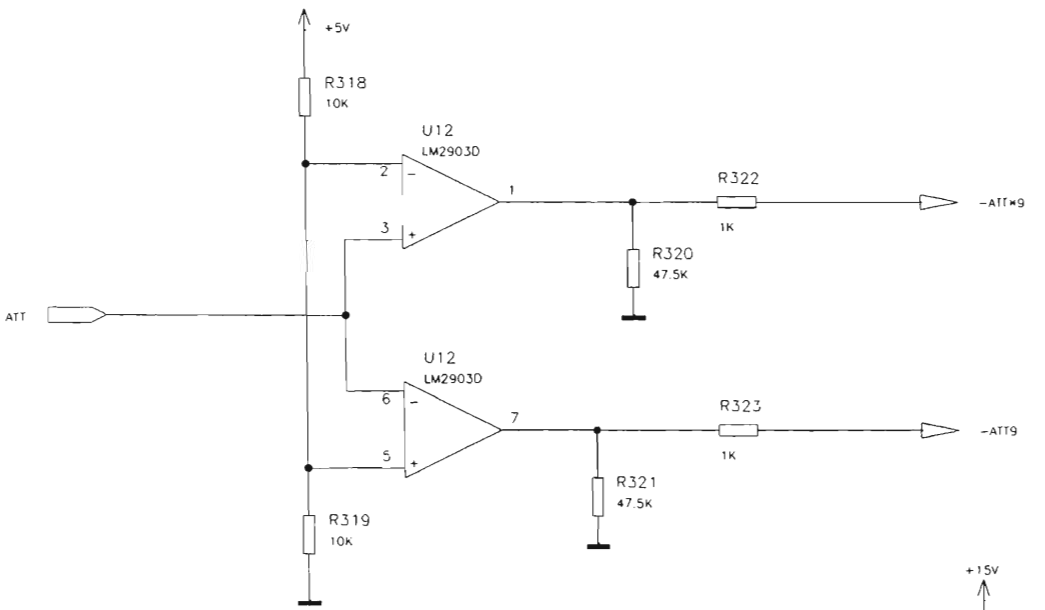
ROHDE&SCHWARZ

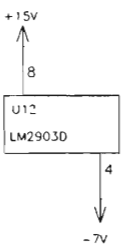
ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 14 + 23

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01







ACHTUNG: EGB !
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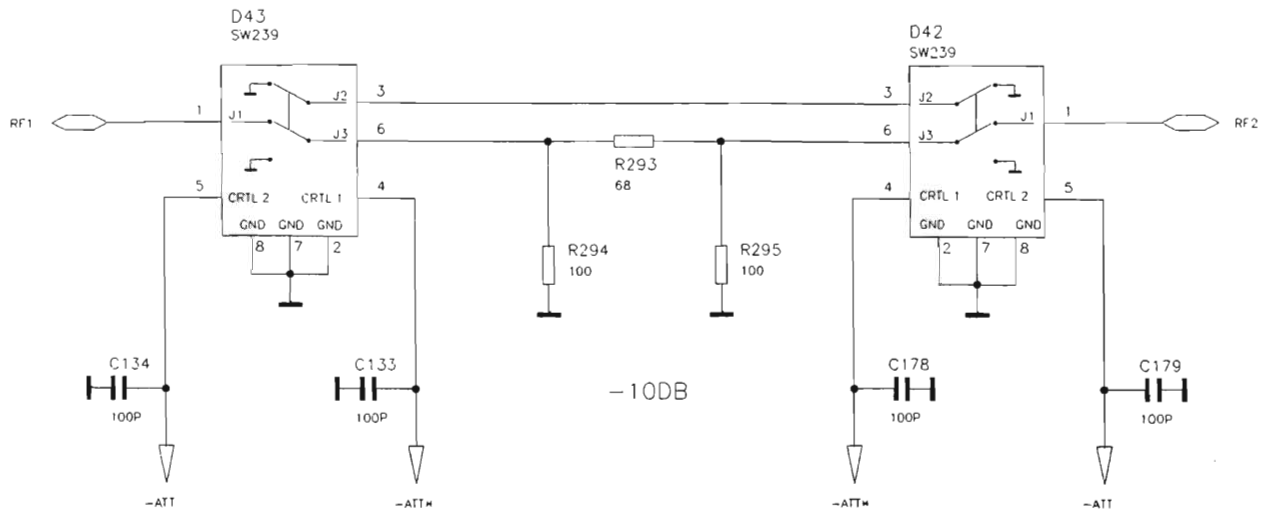
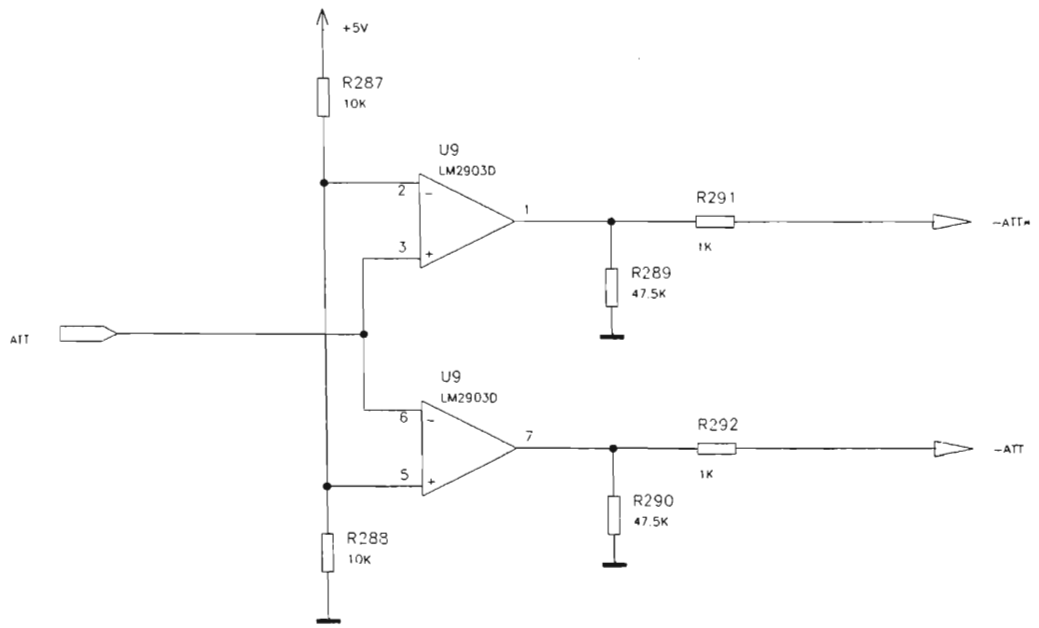
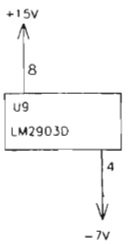
* NOT FITTED

10.13				MEZ1	DATUM	NAME	BENENNUNG	
				BEARB.		EI	RF FRONTEND	
				GEPR.		EI	RF FRONTEND	
				NORM				
				PLOTT	98-08-27	EICHFELD	TOP/TXPATH_19/ATT5DB_39/ATT5DB.1	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S	BLATT-NR. 15 + 33
				ZU GERAET CMD			REG.I.V 1050.9008	ERSTE Z. 1050.9008.01







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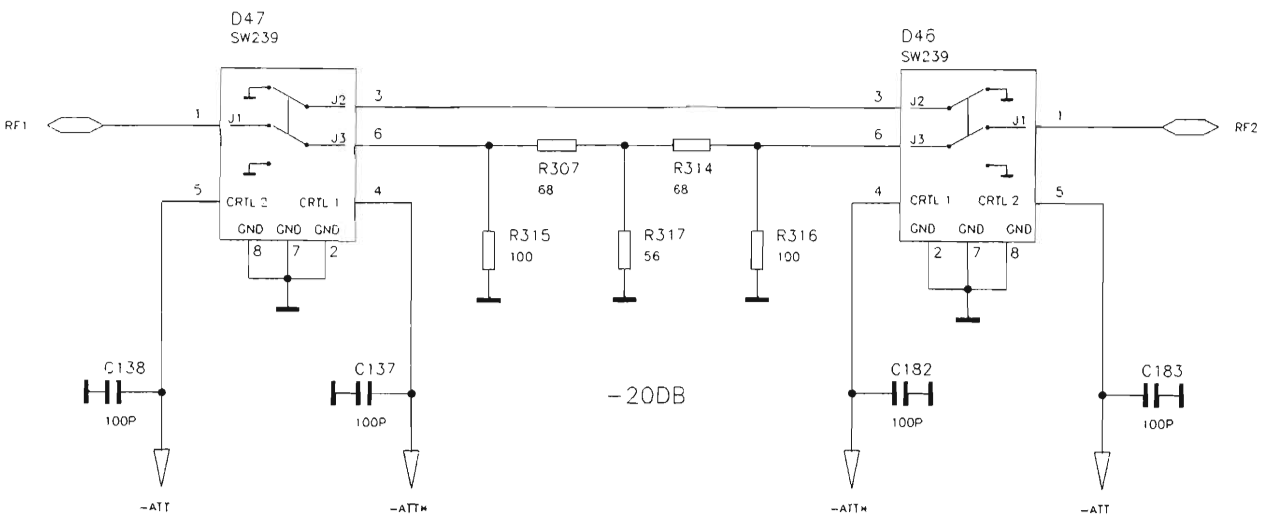
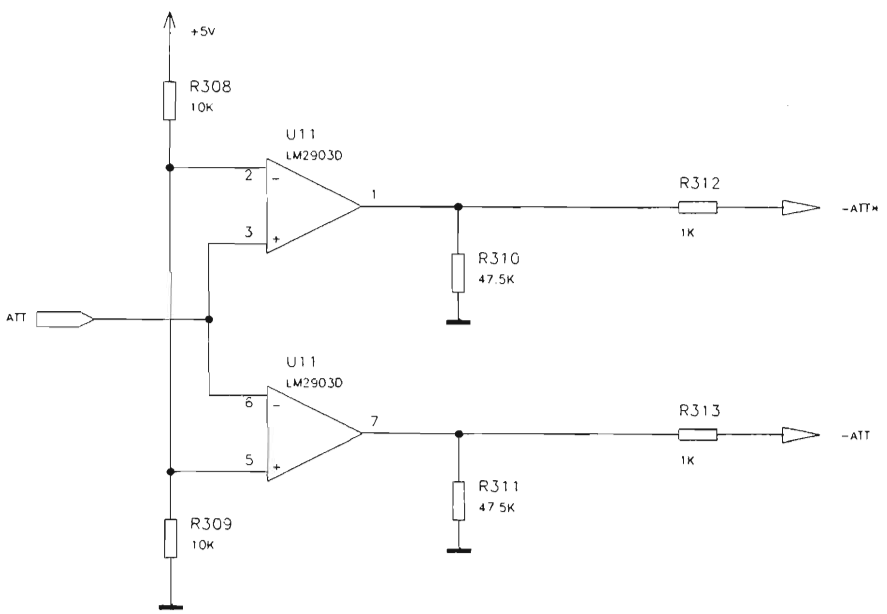
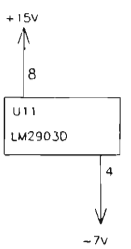
* NOT FITTED

				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/TXPATH_19/ATT100B_34/ATT100B.1
				PLOTT	98-08-27	EICHFELD	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD			REG.Nr 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR. 16 + 23







FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
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TRIMMWERTE, BAUTEILWERTE UND
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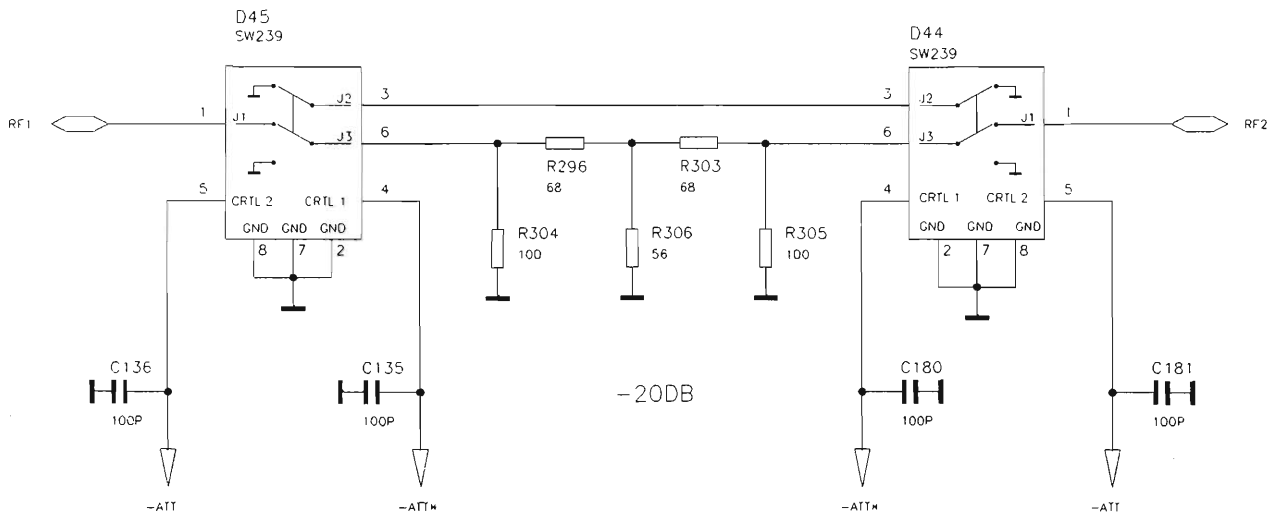
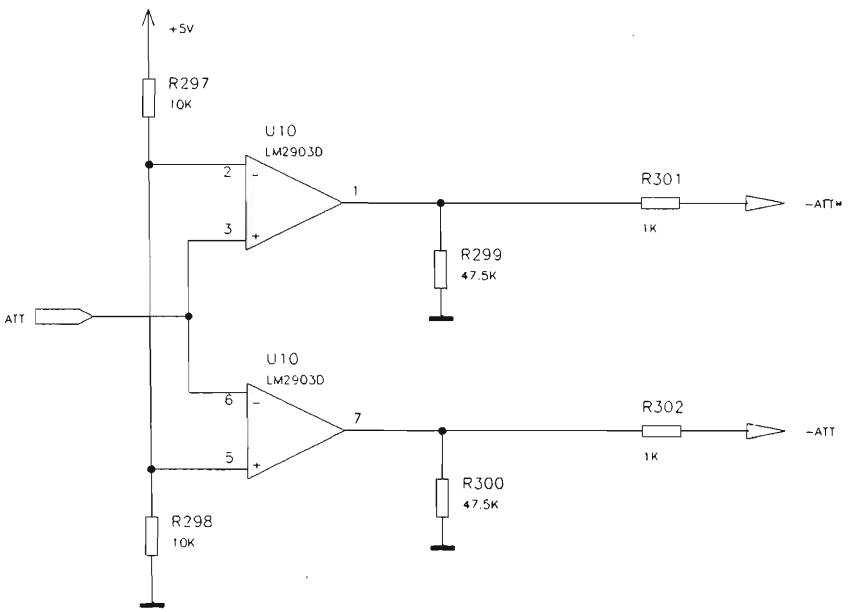
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

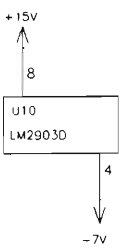
* NOT FITTED

10.13				MEZI	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			
				PLOTT	98-08-27	EICHFELD	TOP/TXPATH_19/ATT20DB_35/ATT20DB.1
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	CMD	REG.I.V	1050.9008
						ERSTE Z.	1050.9008.01

BLATT-NR. 17 + 23







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* NOT FITTED

MEZ1	DATUM	NAME	BENENNUNG
BEARB.		EI	RF FRONTEND
GEPR.		EI	RF FRONTEND
NORM			
PLOTT	98-08-27	EICHFELD	TOP/TXPATH_19/ATT20DB_36/ATT20DB.1

ROHDE&SCHWARZ

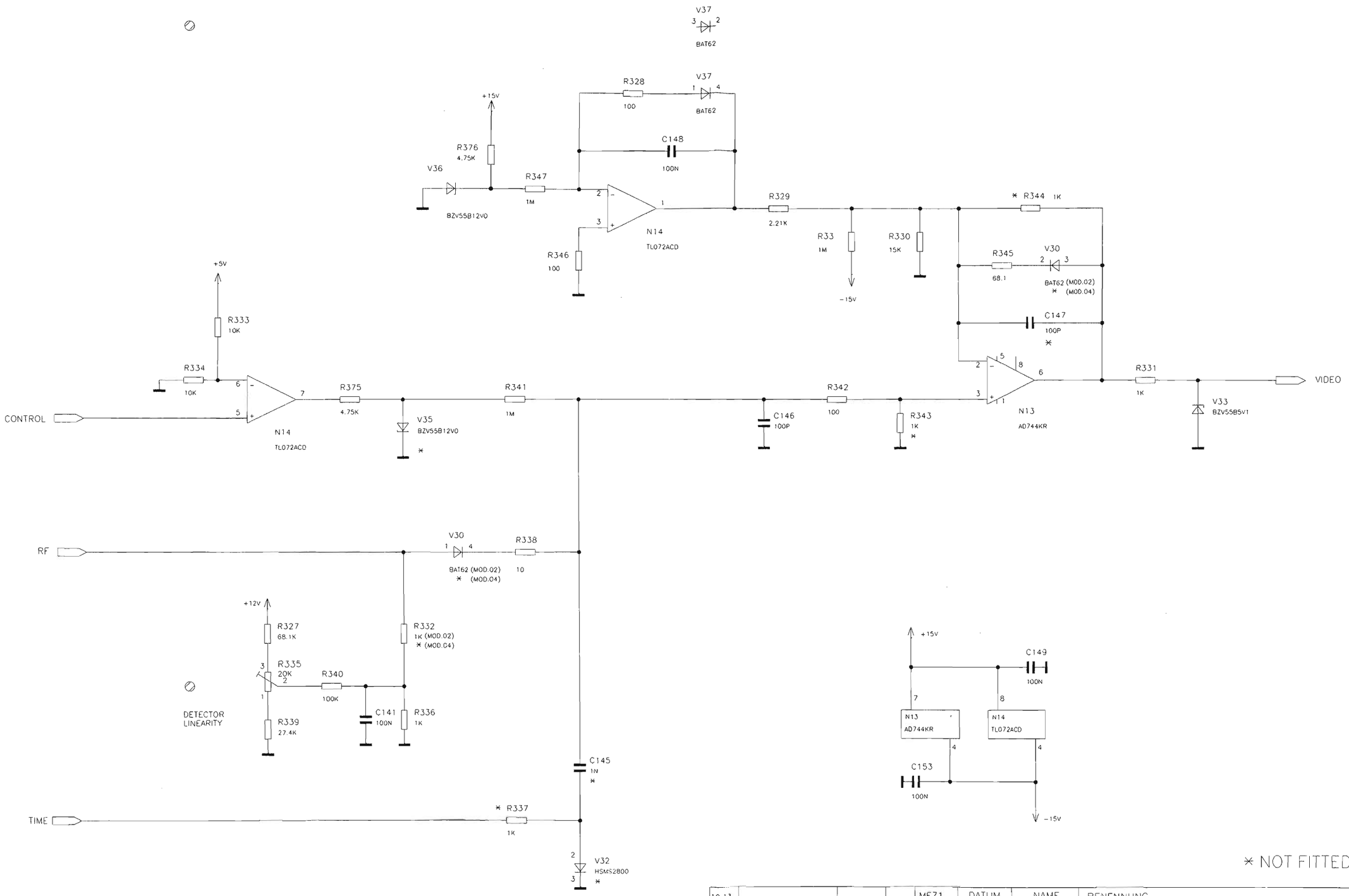
ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 18 +

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAML

ZU GERAET CMD | REG.I.V 1050.9008 | ERSTE Z. 1050.9008.01

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



* NOT FITTED

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AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

ZU GERAET CMD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/TXPATH_19/PEAKDETECTOR_37/PEAKDETECTOR.1

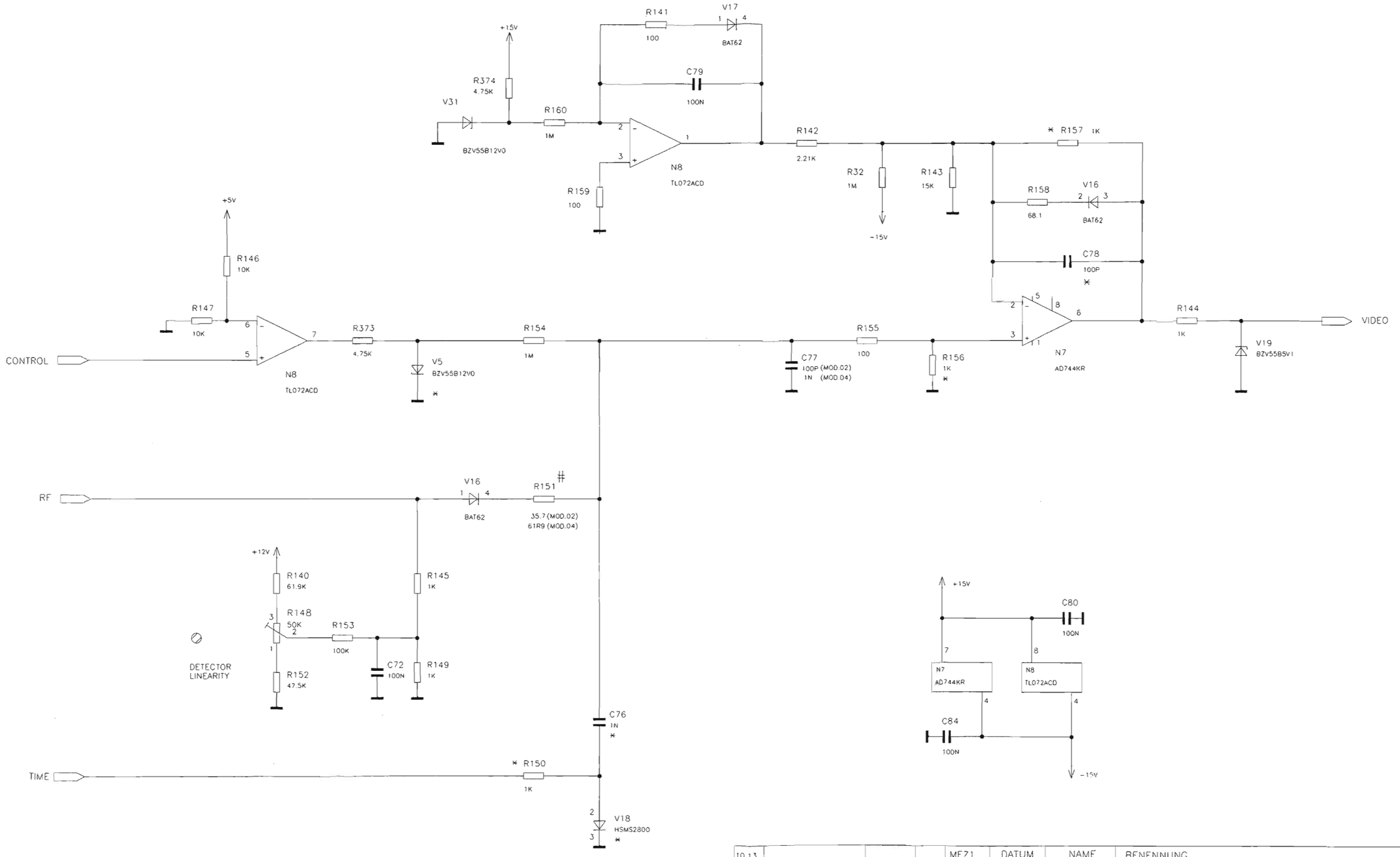
ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2707.01 S

BLATT-NR. 19 + .22

REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01

V17 BAT62: N.C. N.C.
N.C. = not connected



TRIMMWERT/SELECTED

* NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
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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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
10.13			

	DATUM	NAME
MEZ1		
BEARB.		EI
GEPR.		EI
NORM		
PLOTT	98-08-27	EICHFELD

BENENNUNG
RF FRONTEND
RF FRONTEND
TOP/RXPATH_20/PEAKDETECTOR_63/PEAKDETECTOR.1

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2707.01 S
BLATT-NR. 20 + . 23

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

D6
SW239

RFIN

C56
100P
-ATT*2

C60
100P
-ATT2

D7
SW239

RFOUT

C142
100P
-ATT2

C143
100P
-ATT*2

R105
562

V12
BAS32 (MOD.02)
562R (MOD.04)

N6
LP2951CM
SENSE
5V TAP
VOUT
FB
SD
\ERROR

R104
10K

R108
100K

DIAG

R106
47.5K

C64
1U

R115
825 (MOD.02)
56R2 (MOD.04)

R504
56R2
(MOD.04)
(MOD.04)

L12
330N (MOD.02)
1U (MOD.04)

-2dB (MOD.02)
-3dB (MOD.04)

-4dB (MOD.02)
-5dB (MOD.04)

C501 (ONLY MOD.04)
10P

R101 #
10

C62
33N

N5
INA3184 (MOD.02)
ERA-05SM (MOD.04)

C61
33N

R102
22 (MOD.02)
0 (MOD.04)

R103
270 (MOD.02)
* (MOD.04)

C63
1P (MOD.02)
* (MOD.04)

R118
220 (MOD.02)
* (MOD.04)

R119
220 (MOD.02)
* (MOD.04)

R117 #
470 (MOD.02)
* (MOD.04)

R116 #
470 (MOD.02)
* (MOD.04)

+5V
R100
10K

U3
LM2903D

AMP*

R107
1K
-ATT*2

R113
47.5K

R109
1K
-ATT2

R114
47.5K

R111
10K

+15V
C66
100N
L13
10U
C65
1U
N6
LP2951CM

+15V
U3
LM2903D
-7V

* NOT FITTED

TRIMMWERT/SELECTED

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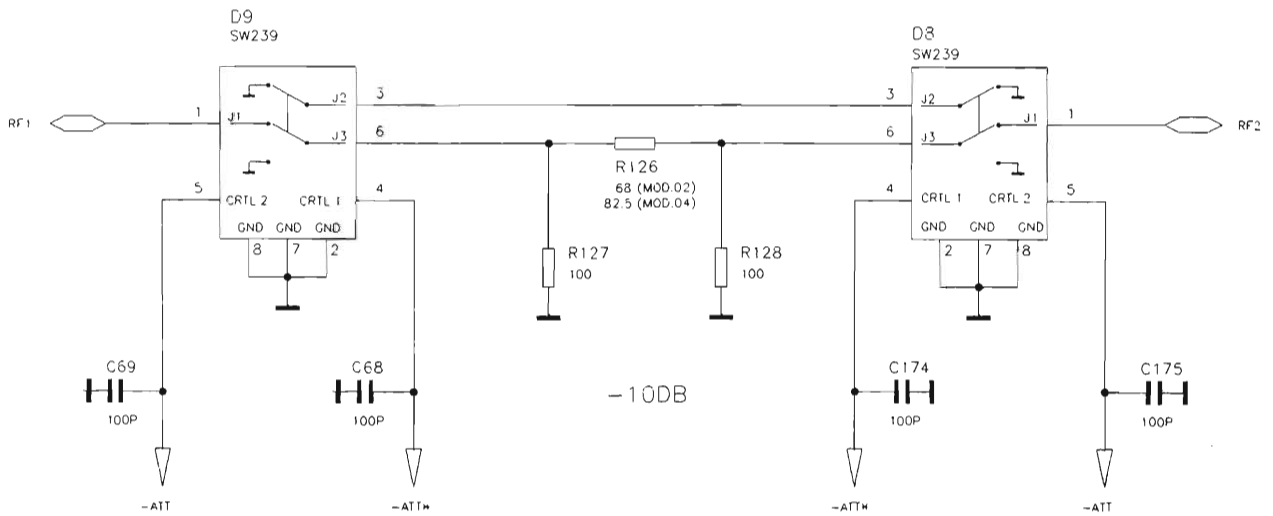
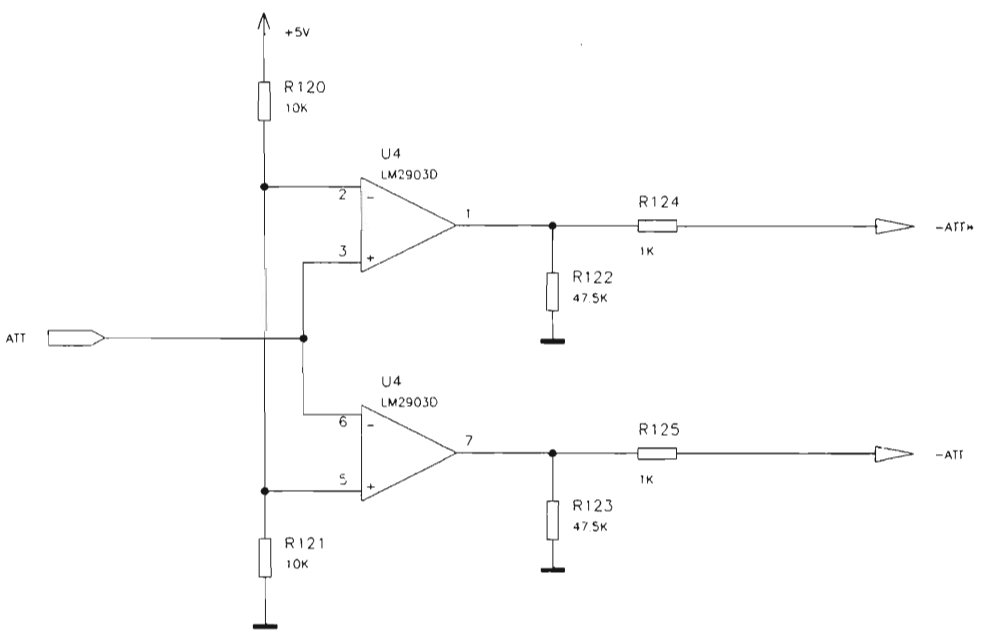
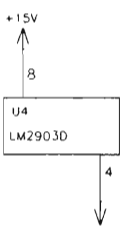
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

10.13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/RXPATH_20/AMP20DB_64/AMP20DB.1
				PLOTT	98-08-27	EICHFELD	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD			BLATT-NR. 21 + .23
				REG.I.V. 1050.9008			ERSTE Z. 1050.9008.01







ACHTUNG: EGB !
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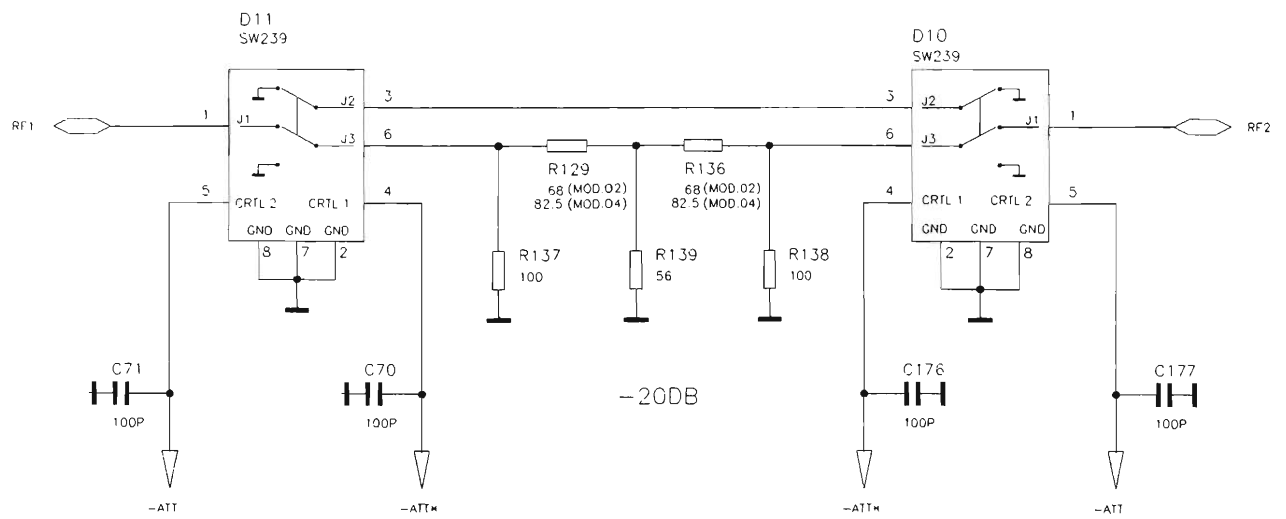
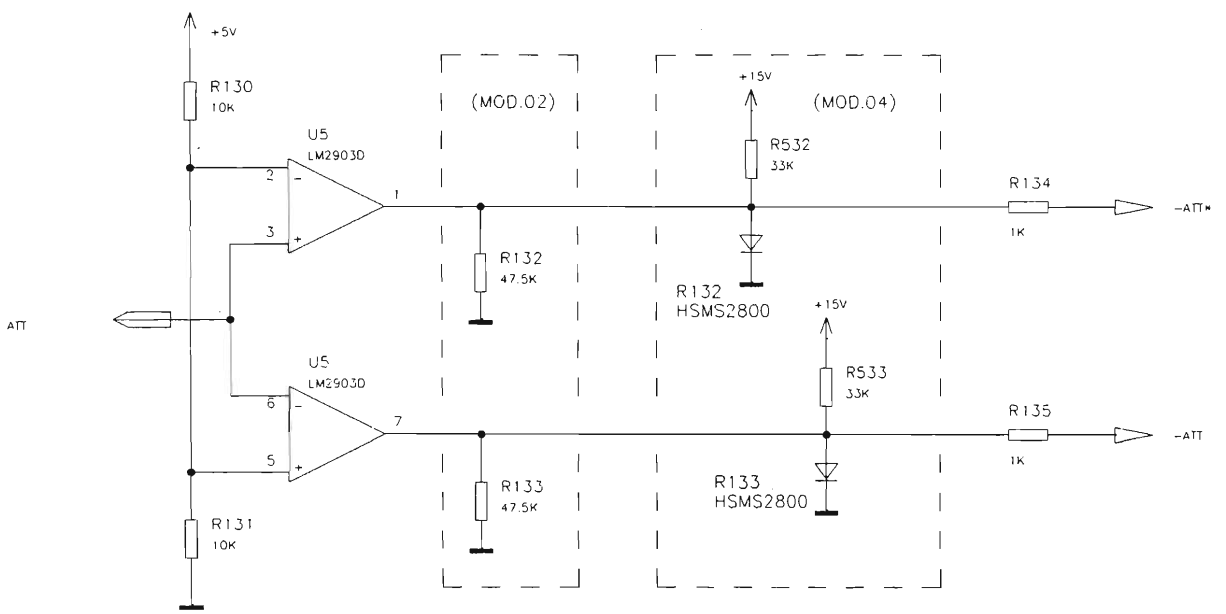
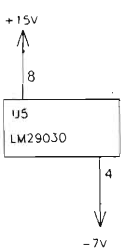
* NOT FITTED

10.13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/RXPATH_20/ATT10DB_65/ATT10DB.1
				PLOTT	98-08-27	EICHFELD	
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
				ZU GERAET CMD			BLATT-NR. 22 +
							REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01







ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
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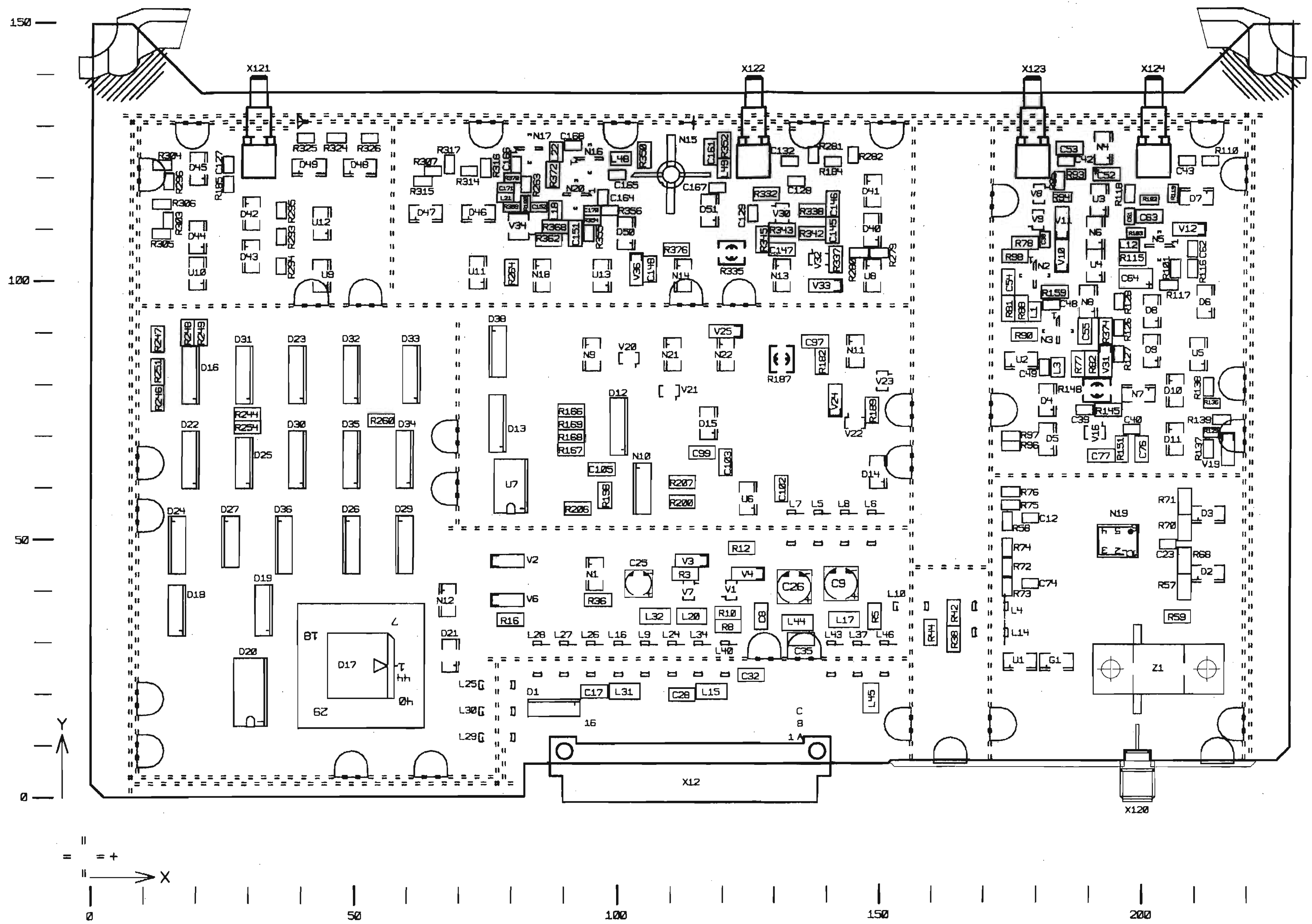
* NOT FITTED

10 13				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		EI	RF FRONTEND
				GEPR.		EI	RF FRONTEND
				NORM			TOP/RXPATH_20/ATT20DB_66/ATT20DB.1
				PLOTT	98-08-27	EICHFELD	
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			REG.I.V 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR. 33 -



DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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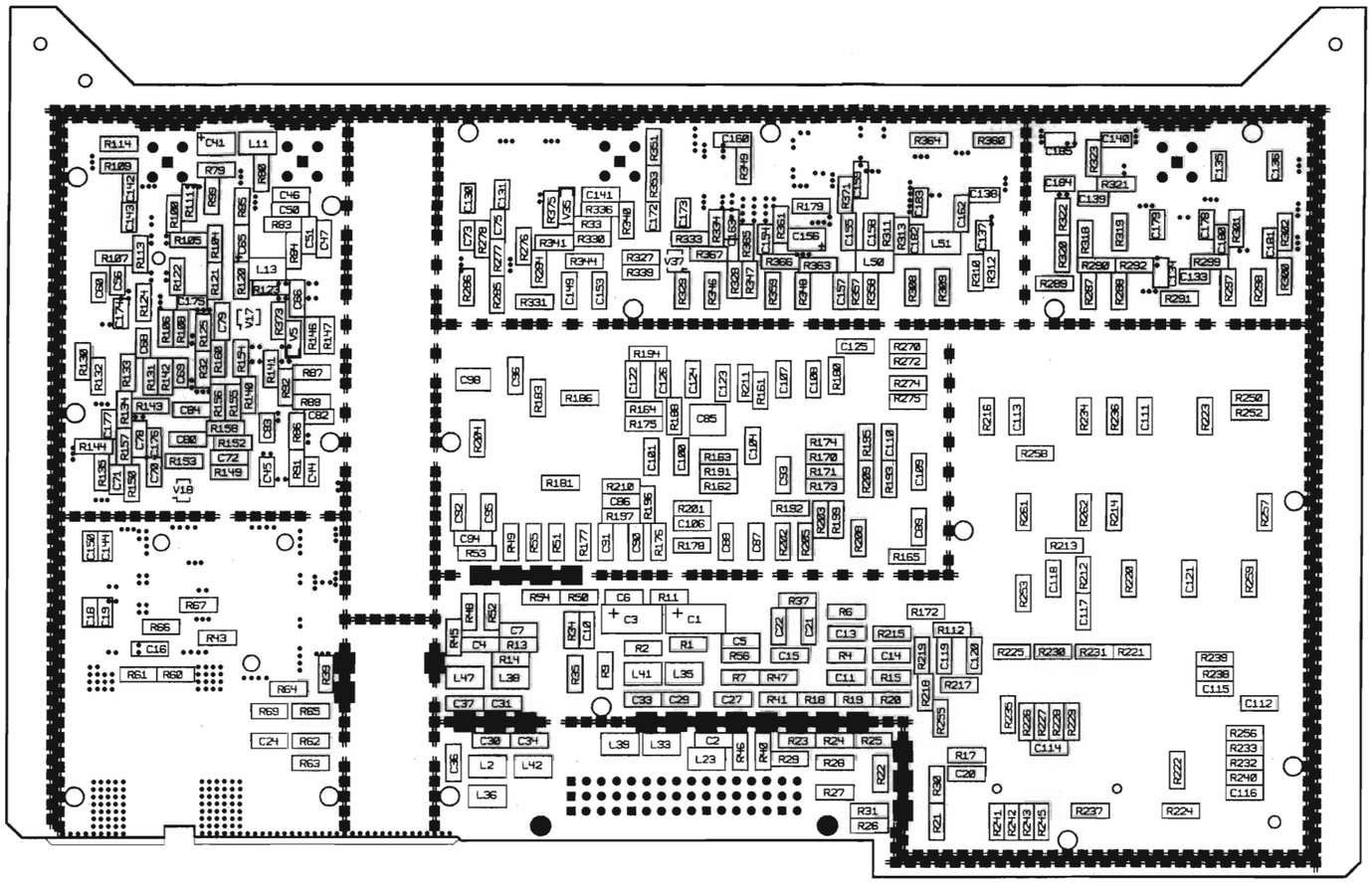
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

03	50681	1 . 95	GL	1CMK	TAG	NAME	BENENNUNG
10.06	------ --	05.97	EI	BEARB.		GL	RF_FRONTEND
				GEPR.		GL	
				NORM		EI	
				PLOTT			
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 D — BLATT-NR. 14 V. 8 BL.
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			REG.I.V. 1050.9008 — ERSTE Z. 1050.9008



FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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03	50681	1 . 95	GL	1CMK	TAG	NAME	BENENNUNG
10.06	------ --	05.97	EI	BEARB.		GL	RF_FRONTEND
				GEPR.		GL	
				NORM		EI	
				PLOTT			
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2707.01 D
				ZU GERAET CMD			BLATT-NR. 2+ V.8 BL.
							REG.I.V. 1050.9008 ERSTE Z. 1050.9008
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME				

ROHDE&SCHWARZ

SERVICE DOCUMENTS
Analog Downconverter

1051.2607.02

Contents

7 Service Instructions for Analog Downconverter

7.1 Function Description

(See circuit diagram 1051.2607 S)

The Analog Downconverter is to be found in the input path between RF Frontend and Digital Downconverter. The RF input signal is taken via a total of 3 IF stages.

The main functions of the Analog Downconverter are:

- filtering the receive signal.
- converting the receive signal to IF for Link Handler.
- converting the receive signal to IF for measuring path (Digital Downconverter).
- processing level test points with various bandwidths.
- correction of the spurious variables and deviations from nominal values in the entire receive path of the instrument.

7.1.1 RF Frequency Generation (as with RF Synthesizer)

In the Analog Downconverter, a VCO is implemented as local oscillator, covering 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 (X21.A29) by division. This VCO is used to convert the receive signal to the 1st IF.

7.1.2 RF and 1st IF Stage

During normal instrument operation, the RF input signal (X203) is converted to the first intermediate frequency of 226.7 MHz using the VCO as first LO. For RX frequencies of 800 to 1698.2 MHz, the LO is above the RX frequency, otherwise it is below.

Following the mixer, the dynamic range of the IF signal level is reduced by means of a switch-selected 10-dB attenuator pad. For suppression of the image frequency reception of the subsequent 2nd mixer stage, helix filters with a bandwidth of approx. 2 MHz are used. An adjustable attenuator pad compensates for the temperature-dependent passband attenuation of the filter.

Alternatively, the RF receive signal can be directly mixed into the baseband amd passed on to the output IF3RX (X201) via a path consisting of lowpass filters, amplifiers and attenuator pads. This possibility is currently not used in the instrument.

7.1.3 2nd IF Stage

The second intermediate frequency is 10.7 MHz. The LO2 frequency is produced by doubling of the 108-MHz signal (X21.A9).

The 2nd mixer is followed by a passive filter and two amplifiers for selection of the IF signal and suppression of mixer products and image frequencies for the subsequent 3rd IF. The level variation is implemented by two successive control elements in 2-dB steps, covering a total range of 30 dB. The second control element is additionally used for error correction of the receive path.

From the main measuring path to the 3rd mixer stage, the 10.7-MHz IF signal is tapped off for the level test point and, at the motherboard, for the Link Handler (IFLH X21.C11) and other functions (X21.C9 and X21.C7).

7.1.4 3rd IF Stage

In the CMD70, the third intermediate frequency lies at 2.8 MHz. The LO3 signal lies at 13.5 MHz and is derived from the 108-MHz signal (X21.A9) by division.

This stage cascades the amplifier on the one hand and the other filter stages with lowpass and notch filter for suppression of mixer products and aliasing effects of the subsequent Digital Downconverter on the other hand.

The maximum level at the interface to the Digital Downconverter (SMB connector X201, IF3RX) is 2 Vpp into an output impedance of 500 Ω.

7.1.5 Level Test Points

The first IF signal is rectified by means of a measuring diode and can trigger an interrupt (POW_INT1) at the main processor by means of a threshold detector via serbus.

A broadband measurement (POW2A) is performed with the second 10.7-MHz IF signal by means of a logarithmic amplifier, or a selective measurement (POW2B) is performed directly before the 3rd mixer. It is possible to directly take the logarithmized signal via a sample & hold circuit or perform a peak measurement, alternatively. The test voltage of the logarithmized signal "IFPOWER" is available at motherboard connector X21.B4 and can be further processed at the level test point of the RF Frontend. In addition, an interrupt (POW_INT2A/B) can be released by means of a threshold detector via serbus at the main processor of the instrument.

7.1.6 Applying an IF Signal

An external 10.7-MHz signal can be applied at connector X202 (IF2IN). This possibility is currently not used in the instrument.

7.1.7 Temperature Sensor

The test signal of the temperature sensor is used to compensate for the temperature dependence of the hardware. This is achieved by means of an analog temperature compensation circuit and by the correction machine.

7.1.8 Correction Machine

For way of functioning see section 6.1.4.
In the instrument, correction values for all settings of the complete input path are calculated in pre-processing mode.

The "correction machine" module contains control elements for setting and correction of the following variables in the transmit path:

- Fine variation and correction of level (IF2_LEV).
- Reserved or for options (IM_BP, IM_NOTCH, Control Reserve).

The signal IF2_LEV operates the level control element at the 10.7-MHz IF and ensures an optimum use of the dynamic range of the 3rd IF, depending on instrument settings and the input power expected.

A FPGA is used to fetch data from the flash PROM and convert them to analog mode for the control elements. Addressing of the flash PROM depends on the current receive settings and the error-causing parameters such as temperature.

7.1.9 Control Unit Serbus

The control signals on the Analog Downconverter are operated via the serbus (X21.B6, B7, B9, B11).

7.1.10 Control Unit Link Handler

As an alternative, the Link Handler (PRISYNTH X21.A23, A24 and A25) also permits to set the first LO frequency in the Analog Downconverter. This possibility is currently not used in the application software.

7.1.11 EEPROM

In order to achieve a high accuracy of the test path and the level test points, the individual measured data of the modules of the Analog Downconverter are stored in an EEPROM. These data are then considered for setting and result evaluation of the RF path during instrument operation.

7.2 Interfaces

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
A1 (X21)					
A2	+5 VREF	I	A	+5 V ± 1%	Reference voltage
A3	GND	B	P		
A4	-15.3 V	I	P	-15.3 V ± 5%	
A5	GND	B	P		
A6	+5.2 V	I	P	+5.2 V ± 5%	
A7	+5.2 V	I	P	+5.2 V ± 5%	
A8	GND	B	P		
A9	+7.7 V	I	P	+7.7 V ± 5%	
A10	GND	B	P		
A11	+15.3 V	I	P	+15.3 V ± 5%	
A12	GND	B	P		
A13	+30 V	I	P	+30 V ± 3%	
A14	GND	B	P		
A15					
A16					
A17					
A18					
A19					
A20					
A21					
A22	GND	B	P		
A23	PRISYNTHCLK	I	D	TTL	Link handler
A24	PRISYNTHDATA	I	D	TTL	Link handler
A25	PRISYNTHENRX	I	D	TTL	Link handler
A26	GND	B	P		
A27					
A28	GND	B	P		
A29	108 MHz	I	A	1 Vpp, 33 Ohm	Synthesizer 1
A30	GND	B	P		
A31					
A32	SW_DIAG S2	I	D	TTL	For testing only, this pin is on motherboard connected to GND

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
B1 (X21)	GND	B	P		
B2	DIAGNOSE	O	A	0 to 2.5 V	Controller
B3	GND	B	P		
B4	IFPOWER	O	A	0 to 5 V	FRONTEND
B5	GND	B	P		
B6	SERBCLK	I	D	TTL	SERBUS
B7	SERBDATA	B	D	TTL	SERBUS
B8	GND	B	P		
B9	SERBINT	O	D	TTL	SERBUS
B10	GND	B	P		
B11	SERBSYNC	I	D	TTL	SERBUS
B12	GND	B	P		
B13	BRESETDRV	I	D	TTL	SERBUS
B14	GND	B	P		
B15					
B16					
B17					
B18					
B19					
B20					
B21					
B22					
B23	GND	B	P		
B24					
B25					
B26					
B27					
B28					
B29					
B30					
B31					
B32	GND	B	P		

Pin	Designation	Signal direction	Type of signal	Specified range	Remark
C1 (X21)	TBUSRES1				Reserved
C2	TBUSRES2				Reserved
C3	TBUSRES3				Reserved
C4	TBUSRES4				Reserved
C5	TBUSRES5				Reserved
C6	GND	B	P		Reserved
C7	IFRES10.7MHz	O	A	Max. -10 dBm, 50 Ohm	2nd receiver
C8	GND	B	P		
C9	IF10.7MHz	O	A	Max. -10 dBm, 50 Ohm	External output
C10	GND	B	P		
C11	IFLH10.7MHz	O	A	Max. -10 dBm, 50 Ohm	Link handler
C12					
C13					
C14					
C15					
C16					
C17					
C18					
C19					
C20					
C21					
C22					
C23	TEST_VCO_VOLT	O	A	0 to 2.5 V	
C24	TEST+29.3 V	O	A	+29.3 V ± 3%	
C25	TEST+14.3 V	O	A	+14.3 V ± 5%	
C26	TEST+7 V	O	A	+7 V ± 5%	
C27	TEST+5.2 V	O	A	+5.2 V ± 5%	
C28	TEST-14.3 V	O	A	-14.3 V ± 5%	
C29					
C30					
C31					
C32					

X22 Connector for IMAGE-REJECTION FILTER					
Pin	**Designation**	**Signal direction**	**Type of signal**	**Specified range**	**Remark**
A1	VTEMP	O	A	0 to 10 V, DC	Temperature voltage
A2	GND	B	P		
A3	IM_NOTCH	O	A	0 to 25 V, DC	Tuning voltage
A4	SW_IM_REJECT	O	D	TTL	Switch for image-rejection filter
A5	+14.3 V	O	P	+14.3 V ± 5%	
B1	Not connected				Coding of adapter
B2	EE_DAT	O	D	TTL	Data for EEPROM
B3	IM_BP	O	P	0 to 25 V, DC	Tuning voltage
B4	EE_CLK	O	D	TTL	Clock for EEPROM
B5	-14.3 V	O	P	-14.3 V ± 5%	

RF coaxial connectors					
Pin	**Designation**	**Signal direction**	**Type of signal**	**Specified range**	**Remark**
X201	IF3OUT	O	A	2 Vpp, DC to 3.5 MHz, 511 Ohm	DSP
X202	IF2IN	I	A	0 dBm, 10.7 MHz 50 Ohm	External input
X203	RFRX	I	A	Max. -5 dBm, 20 to 2200 MHz	Frontend
X1	216 MHz LO	O	A	-13 dBm, 216 MHz	Test signal
X2	IF1_SIGNAL	O	A	-40 to -100 dBm, 226.7 MHz	Test signal
X4	FRAC_SYN LO	O	A	-13 dBm 60 to 2000 MHz	Test signal
X5	RDIV	O	A	0 dBm 1000 to 2000 MHz	Test signal

Test points					
Pin	**Designation**	**Signal direction**	**Type of signal**	**Specified range**	**Remark**
P1	13.5 MHZ LO			$1V_{pp}$, 13.5 MHz	
P2	+5 VREFBUF			+5 V ± 1%	
P4	LOG OUTPUT			0 V to 3.5 V	
P7	10MHZFRACSYN			TTL, 10 MHz	
P10	POWER 3			0 V to 2.5 V	
P12	CKO			TTL	

Signal direction
I = Input
O = Output
B = Bidirectional

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

Tuning elements

Function	Test value	Tuning value	Tolerance	Tuning element
Characteristic of helix filter	X201	Center frequency: 226.7 MHz Bandwidth: 1.4 MHz Group delay ripple:	± 50 kHz ± 0.05 dB ±100 ns	B3, B4
Characteristic of 10.7-MHz filter	X201 X21C7 X21C9	Center frequency: 10.7 MHz Bandwidth: 1.3 MHz Group delay ripple:	± 20 kHz ± 0.05 dB ±100 ns	L153
Level adjustment of filter option	X201 X21C7 X21C9	Level difference between switching paths	± 0.3 dB	R254
Log-amp adjustment	X21B4	Intercept point Gain	± 2 dB ± 0.5 dB	R141 R402
S/H offset	X21B4	Offset voltage	± 10 mV	R136
Notch filter for suppressing subharmonics of 216-MHz LO	X1	108 MHz 324 MHz	< -40 dBc < -40 dBc	L61 L161
Gain compensation of 1st IF	X2	226.7 MHz IF signal: -25 dBm	± 2 dB	R482 R486
Offset adjustment of temperature sensor	X21B2	VTEMP: TEMPREF[V] = TEMP[^{o}C]/30	± 3%	R162

Connectors

Signal/function	Designation
Signal, 3rd IF	X3.1/2/3
TUNING VOLTAGE (VCO)	X6.1/2/3
S/H signal	X7.1/2/3
1st IF filter for 226.7 MHz	X8.1/2/3/4
VTEMP, temperature-proportional voltage	X9.1/2/3/4

ROHDE&SCHWARZ

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

095.1000 Bl. 3

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				
B1	BL 74AC169SC 4B BIN CNT IC 4BIT BIN U/D COUNTER	BL 0009.5686.00	NSC	(74)AC169(SC)	
B2	BM SYM-2500 MIXER 2,5G MIXER MODULE	1051.4774.00	MINI-CIRCU	SYM-2500	
B3	LD HELIX-FILTER 226,7MHZ FILTER	1051.4700.00	NEOSID	0056 1815	
B4	LD HELIX-FILTER 226,7MHZ FILTER	1051.4700.00	NEOSID	0056 1815	
C1	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C2	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C3	CE 4,7UF+-20%50V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6530.00	SANYO	50CV4.7FS	
C4	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C5	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C6	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C7	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C8	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C9	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C12	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	SPRAGUE	293D 475 X9 010 B2T	
C13 ..16	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C17	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C18	CC 39PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	0009.9730.00	MURATA	GRM39C0G***F50ZPT	
C19	CE 4,7UF+-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7275.00	SPRAGUE	293D 475 X9 010 B2T	
C20	CC 68NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5214.00	AVX	1206 5 C 683 KA 3	
C21	CK 68NF +-5% 25V PPS 2220 METALLIZED PPS-CAP.SMD NICHT BESTUECKT	1051.4897.00	PHILIPS_CO	2222 393 29683	
C22	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C23	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C24	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C25	CC 47PF+-1%50V C0G 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6C0G 470F50ZPT	
C26	CC 47PF+-2% 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7291.00	PHILIPS_CO	2222 576 11432	
C27	CC 4P7+-0,25 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7185.00	PHILIPS_CO	2222 576 11118	
C28	CC 4P7+-0,25 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7185.00	PHILIPS_CO	2222 576 11118	
C29	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C30	CC 33PF+-2% 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7279.00	PHILIPS_CO	2222 576 11429	
C31	CC 33PF+-2% 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7279.00	PHILIPS_CO	2222 576 11429	
C32	CC 47PF+-2% 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7291.00	PHILIPS_CO	2222 576 11432	
C33	CE 10UF+-20%35V RUND SMD SMD-ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100X	
C34	CC 470PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8515.00	AVX	1206 5 A 471 F 3	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C35	CC 470PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8515.00	AVX	1206 5 A 471 F 3	
C36	CC 47PF+-2% 50V NPO 1206 SMD-CERAMIC-CAP."HIGH Q"	0008.7291.00	PHILIPS_CO	2222 576 11432	
C37	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C38	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C39	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C40	CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8815.00	MURATA	GRM42-6C0G 680F50ZPT	
C41	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C42	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C43	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C44	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C45	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C46	CC 100PF+-1% 50VNP0 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C47	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C48	CC 100PF+-1% 50VNP0 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C49	CC 100PF+-1%50V NP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C50	CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITOR	CE 0007.7281.00	SPRAGUE	293D-106X9 016 C2W	
C51	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C52	CC 100PF+-1%50V NP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C53	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C54	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C55 ..64	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C65	CE 22UF+-20%35V RUND SMD SMD-ELEKTROLYTIC-CAPACIT.	CE 0009.6253.00	PANASONIC	EEV HB 1V 220P	
C66	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	
C67	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C68	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C69	CC 22PF+-1%50V NP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6C0G 220F50ZPT	
C70	CC 100NF+-10%50V5K1200VIE CAPACITOR	CC 0084.5350.00	UNION_CARB	CK 05 BX 104K	
C71	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C72	CC 100NF+-10%50V5K1200VIE CAPACITOR	CC 0084.5350.00	UNION_CARB	CK 05 BX 104K	
C73	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C74	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C75	CC 150PF+-1%50V NP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8509.00	MURATA	GRM42-6C0G 151F 50PT	
C76	CC 150PF+-1%50V NP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8509.00	MURATA	GRM42-6C0G 151F 50PT	
C77	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C78	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C79	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C80	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C81	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C82	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C83	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C84	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C85	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
C86	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C87	CE 22UF+-20%35V RUND SMD SMD-ELEKTROLYTIC-CAPACIT.	CE 0009.6253.00	PANASONIC	EEV HB 1V 220P	
C88	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C89	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C90	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C91	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C92 ..94	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C95	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C96	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C97	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C98	CC 27NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8473.00	AVX	1206 5 C 273 KAT00J	
C99	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C100 ..103	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C104	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C105	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C106	CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	0009.8304.00	MURATA	GRM39C0G***B50ZPT	
C107 ..110	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C111	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C112	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C113	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39C0G***B50ZPT	
C114	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C115	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C116	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C117	CE 47UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010 D2W	
C118	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	AVX	1206 5A 271 F 3	
C119	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C120	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C121	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C122	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C123	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C124	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C125	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C126	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C127	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C128	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C129	CK 22NF +-5% 25V PPS 1812 SMD-FILM-CAPACITOR	0009.7866.00	PHILIPS_CO	2222 392 29223	
C130	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C131	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C132 ..135	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C136	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C137	CC 6,8PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8236.00	MURATA	GRM42-6C0G 6R8 C50PT	
C138	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C139	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
C140	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C141	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C142	CC 2,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8291.00	MURATA	GRM39C0G***B50ZPT	
C143	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C144	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C145	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C146	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C147	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C148	CC 2,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8291.00	MURATA	GRM39C0G***B50ZPT	
C149	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C150	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C151	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C152	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C153	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C154	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C155	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C156	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C157	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C158	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C159	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C160 ..162	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C163	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C164	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C165	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C166	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C167	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C168 ..171	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C172	CC 10NF +-10%500VHDK1206 CERAMIC CHIP CAPACITOR	0007.8865.00	VITRAMON	VJ1206 Y103K XET	
C173	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C174	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C175	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C176	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C177	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C178	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	AVX	1206 5A 271 F 3	
C179	CC 470PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8515.00	AVX	1206 5 A 471 F 3	
C180	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C181	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F50ZPT	
C182	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C183	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C184	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C185	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C186	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C187	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C188 ..190	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C191	CC 10NF +-10%500VHDK1206 CERAMIC CHIP CAPACITOR	0007.8865.00	VITRAMON	VJ1206 Y103K XET	
C192	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120F50ZPT	
C193	CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C50PT	
C194 ..196	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C197	CC 220PF+-5%500V NPO1206 CERAMIC CHIP CAPACITOR	0007.8765.00	AVX	1206 7A 221JAT2	
C198 ..200	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C201	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C202	CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4767.00	MURATA	GRM39X7R***K5C500PT*	
C203	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C204	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C205	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F50ZPT	
C206	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F50ZPT	
C207	CC 150PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8509.00	MURATA	GRM42-6COG 151F 50PT	
C208	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C209 ..212	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C213	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F50ZPT	
C214	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C215	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C216	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C217	CC 560PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.3186.00	AVX	1206 5 A 561 F 3	
C218	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C219	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR NICHT BESTUECKT	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C220	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C221	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C222	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C223	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C224	CC 1,2NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7400.00	AVX	1206 5A 122FAT00J	
C225	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C226 ..234	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C235	CC 15PF+-1% 50V C0G0603 SMD-CERAMIC CAPACITOR	0008.2202.00	AVX	06035J150FA000J	
C236	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C237 ..245	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C246	CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4538.00	MURATA	GRM39C0G***B50ZPT	
C247	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C248	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C249 ..251	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C252	CC 120PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8838.00	MURATA	GRM42-6C0G 121F50ZPT	
C253	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	MURATA	GRM42-6C0G 221F 50PT	
C254	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C255 ..258	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C259	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6C0G 180F50ZPT	
C260	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C261	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C262 ..268	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C269	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C270	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C271	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C272	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C273	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C274	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C275	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C276	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C277	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C278	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	AVX	2220 5C 105 KAT**A(F	
C279	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C280	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C281	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C282	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C283 ..287	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C288	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C289	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C290	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C291 ..294	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C295	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C296	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C297	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C298	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C299	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C300	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C301	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C302	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C303	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C304	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C305 ..307	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C308	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C309	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C310	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C311	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C312	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C313	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C314 ..319	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C320	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C321	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C322	CC 10NF +-10%500VHDK1206 CERAMIC CHIP CAPACITOR	0007.8865.00	VITRAMON	VJ1206 Y103K XET	
C323	CC 180PF+-1%50V NPO 1206 CHIP CAPACITOR	CC 0099.8844.00	MURATA	GRM42-6C0G 181F50ZPT	
C324	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	MURATA	GRM42-6C0G 221F 50PT	
C325	CC 1,8PF0,1PF50V NPO 0603 MD-CERAMIC-CAPACITOR	0009.4473.00	MURATA	GRM39C0G***B50ZPT	
C326	CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.8304.00	MURATA	GRM39C0G***B50ZPT	
C327 ..329	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C330	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C331	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C332 ..334	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C335	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	MURATA	GRM42-6C0G 221F 50PT	
C336	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	MURATA	GRM42-6C0G 221F 50PT	
C337	CE 47UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010 D2W	
C338	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C339	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C340	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C342	CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.8213.00	MURATA	GRM42-6C0G 4R7C 50PT	
C343	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C344	CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8809.00	MURATA	GRM42-6C0G 560F50ZPT	
C345	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4567.00	MURATA	GRM39C0G***B50ZPT	
C347	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	MURATA	GRM42-6C0G 221F 50PT	
C348	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C349	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C350	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C352	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR NICHT BESTUECKT	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C353	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C354	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C355	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C356	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C357	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C358	CC 8,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	0009.4550.00	MURATA	GRM39C0G***B50ZPT	
C359	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4567.00	MURATA	GRM39C0G***B50ZPT	
C360	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C361	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C362	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C363	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C364	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C365	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C366	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C367	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C368	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C369	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C370	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C371	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C372	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C373	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C374	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C375	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6C0G 101F50ZPT	
C376	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C377	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C378	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C379	CC 330PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8873.00	AVX	1206 5A 331 F 3	
C380	CE 4,7UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR NICHT BESTUECKT	CE 0007.7230.00	SPRAGUE	293D475X9035D2W	
C381	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C382	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C383	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C384	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C385	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C386 ..389	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C390	CE 2,2UF +-10% 10V 3528 TANTALUM SMD-CAPACITOR	CE 0007.7269.00	SPRAGUE	293D 225 X9 020 B2T	
C391	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C392	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C393	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C394	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C395	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C396	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C397	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C398 ..400	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C401	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C402	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C403	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6C0G 100 C50PT	
C404	CC 1PF+-0,25PF NPO 0805 CHIP CAPACITOR	CC 0099.6770.00	MURATA	GRM40X7R010C50PT	
C411	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NICHT BESTUECKT	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C412	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
C460	CE 1UF+-10%35V TANTALUM SMD-CAPACITOR	0843.3221.00	SPRAGUE	195D 105 X9 035 D2	
D1	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	HARRIS	(CD74)ACT74(M)	
D2	BL UPB585G 2.5G 4:1 PRESC IC PRESCALER 2.5GHZ	1002.5029.00	NEC	(UPB)585(G)-(E1/E2)	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D3	BL MC10E016 8B.BIN.ZAEHL IC 8B BIN COUNTER	1043.9641.00	MOTOROLA	(MC)10E016(FN)	
D4	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D5	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D6 ..9	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	HARRIS	(CD74)ACT74(M)	
D10	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D11	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D12	BG TH3087.1I FRACSYN2ASIC IC GATEARRAY	1066.1960.00	THESYS	TH3087.1I	
D13	BL PC74HCT14T 6XINV.SCHM INV. SCHMITT-TRIGGER	BL 0007.6204.00	PHILIPS_SE	(PC)74HCT14(D/T)	
D14	BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH	0746.0322.00	SILICONIX	DG419DY	
D15	BL 74ACT109SC 2XJK-FLIPFL IC J-K P-EDGE TRIG FLIPF	BL 1012.9391.00	HARRIS	CD74ACT109M	
D16	BM NE630D SPDTSWITCH IC RF-SWITCH INCL DRIVER	4035.2363.00	PHILIPS_SE	SA630D	
D17	BM NE630D SPDTSWITCH IC RF-SWITCH INCL DRIVER	4035.2363.00	PHILIPS_SE	SA630D	
D18	HS FPGA DOWN CONVERTER	1051.2671.00			
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 PC74HCT574T 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	BL 0007.6727.00	PHILIPS	(PC)74HCT574(T)	
D26	BJ AD7226KR MUX 4X8B-DAC IC DIGITAL/ANALOG CONV	1051.5170.00	ANALOG_DEV	AD7226KR	
D27	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D28	BL PC74HCT132T 4X2IN SCHM NAND SCHMITT TRIGGER	BL 0007.6340.00	PHILIPS	(PC)74HCT132(D/T)	
D29	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)	
D30	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D31	BL PC74HCT74T 2XD-FLIPFL DUAL D-TYPE FLIP FLOP NICHT BESTUECKT	BL 0007.6262.00	PHILIPS_SE	(PC)74HCT74D(T)	
D32	BL PC74HCT02T 4X2IN NORG QUAD 2INPUT NORGATE	BL 0007.5366.00	PHILIPS_SE	(PC)74HCT02(D/T)	
D33	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D34	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D35	BL UPB584G 2:1 PRESC PRESCALER	2004.7790.00	NEC	(UPB)584(G)	
D36	BC AM29F010 10% FL.EPROM IC MEMORY	1050.0769.00	AMD	AM29F010-55JI	
D37	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
G1	BO REF02CS VREF IC VOLTAGE REFERENCE	0009.6882.00	ANALOG_DEV	REF02CS	
L1	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L2 ..5	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L6	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L7 ..12	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L13	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-J(K)100	
L14	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
..16					
L17	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L18	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L19	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L20	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L21	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L22	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L23	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L24	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L25	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
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 T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
..31					
L32	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L33	LD 220NH 10% 0,28A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0520.7911.00	SIEMENS	B82422-A3221-J(K)100	
L34	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L35	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
..39					
L40	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
..42					
L43	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L44	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR NICHT BESTUECKT	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L45	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L46	LD 220NH 10% 0,28A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0520.7911.00	SIEMENS	B82422-A3221-J(K)100	
L47	LD 470UH 10% 0,07A 1812 SMD-INDUCTOR NICHT BESTUECKT	1065.8877.00	SIEMENS	B82432-A1474-K	
L48	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L49	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-J(K)100	
L50	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L51	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L52	LD 180NH 5% OR2 1010 INDUCTOR SURFACE MOUNT	1051.5229.00	STETTNER	5501 1813200	
L53	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L54	LD 150NH 10% 0,39A 1210 SMD-INDUCTOR	LD 0009.5140.00	SIEMENS	B82422-A3151-J(K)100	
L55	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L56	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L57	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L58	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L59	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L60	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L61	LD 68 NH SMD-ABGL.Q5,1H5 SMD-VHF-COIL	0008.9488.00	COMPONEX	E 558 CN-10 0022	
L62	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-FH...K	
L63	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-FH...K	
L64	LD 330NH 10% 0,20A 1210 SMD-INDUCTOR	LD 0520.7534.00	SIEMENS	B82422-A3331-J(K)100	
L65	LD 33 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6753.00	TOKO	LL1608-FH...K	
L66	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L67	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L68	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L69	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L70	LD 15UH 10% 0,16A 1210 SMD-INDUCTOR	LD 0009.5192.00	SIEMENS	B82422-A1153-J(K)100	
L71	LD 680NH 10% 0,14A 1210 CHIP COIL	LD 0690.9195.00	SIEMENS	B82422-A3681-J(K)100	
L72	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L73	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L74	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L75	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L76	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L77	LD 220NH 5% 0,6A OR2 1010 CHIP COIL	0920.0027.00	STETTNER	5501 2213200	
L78	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L79	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L80	LD 970 NH SMD-ABGL.Q5XH5 SMD ADJUSTABLE COIL	4024.5972.00	NEOSID	0056 0030	
L81	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L82	LD 3,3UH 10% 0,20A 1210 SMD-INDUCTOR	LD 0856.7089.00	SIEMENS	B82422-A1332-J(K)100	
L83	LD 3,3UH 10% 0,20A 1210 SMD-INDUCTOR	LD 0856.7089.00	SIEMENS	B82422-A1332-J(K)100	
L84	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L85	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L86	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L87	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L88	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L89	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L90	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L91	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L92	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L93	LD 970 NH SMD-ABGL.Q5XH5 SMD ADJUSTABLE COIL	4024.5972.00	NEOSID	0056 0030	
L94	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L95	LD 970 NH SMD-ABGL.Q5XH5 SMD ADJUSTABLE COIL	4024.5972.00	NEOSID	0056 0030	
L96	LD 180NH 5% OR2 1010 INDUCTOR SURFACE MOUNT	1051.5229.00	STETTNER	5501 1813200	
L97	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L98	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NICHT BESTUECKT				
L99	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
	NICHT BESTUECKT				
L100	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
	NICHT BESTUECKT				
L101 ..106	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L107	LD 8,2UH 10% 0,13A 1210 SMD INDUCTOR	0009.9552.00	SIEMENS	B82422-A1822-J(K)100	
L108	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L109	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L110	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L111	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
	NICHT BESTUECKT				
L112	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
	NICHT BESTUECKT				
L113	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L114	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L115	LD 330NH 10% 0,20A 1210 SMD-INDUCTOR	LD 0520.7534.00	SIEMENS	B82422-A3331-J(K)100	
L116	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L117	LD 15UH 10% 0,16A 1210 SMD-INDUCTOR	LD 0009.5192.00	SIEMENS	B82422-A1153-J(K)100	
L118	LD 5,6UH 10% 0,14A 1210 INDUCTOR	1051.4451.00	SIEMENS	B82422-A1562-J(K)100	
L119 ..122	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L123	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L124	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L125 ..131	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L132	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L133	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L134	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L135	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L136	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L137	LD 180NH 5% OR2 1010 INDUCTOR SURFACE MOUNT	1051.5229.00	STETTNER	5501 1813200	
L138	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L139	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L140	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
L141	LD 22UH 10% 0,14A 1210 SMD-INDUCTOR	LD 0520.7886.00	SIEMENS	B82422-A1223-J(K)100	
L142	LD 6,8NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6676.00	TOKO	LL1608-FH...K	
	NICHT BESTUECKT				
L143	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L144	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L145	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L146	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L147	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L148	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L149	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L150	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L151	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L152	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L153	LD 220 NH SMD-ABGL.Q5H5 SMD ADJUSTABLE COIL	1051.5570.00	NEOSID	0056 0108	
L154	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L155	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L156	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L157	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-FH...K	
L158	LD 1MH 10% 5MA 1210 SMD-INDUCTOR	0520.7757.00	TDK	ACL 3225S-102K-T	
L159	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L160	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L161	LD 68 NH SMD-ABGL.Q5,1H5 SMD-VHF-COIL NICHT BESTUECKT	0008.9488.00	COMPONEX	E 558 CN-10 0022	
L162	LD 68 NH SMD-ABGL.Q5,1H5 SMD-VHF-COIL NICHT BESTUECKT	0008.9488.00	COMPONEX	E 558 CN-10 0022	
L163	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
L164	LD 970 NH SMD-ABGL.Q5XH5 SMD ADJUSTABLE COIL NICHT BESTUECKT	4024.5972.00	NEOSID	0056 0030	
L165	LD 680NH 10% 0,14A 1210 CHIP COIL	LD 0690.9195.00	SIEMENS	B82422-A3681-J(K)100	
L166	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L167	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L168	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L169	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L170	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L171	LD 8,2UH 20% 0,11A 1210 CHIP COIL	0690.9489.00	SIEMENS	B82412-A1822-M	
L172	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L173	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L174	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR NICHT BESTUECKT	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L175	LD 33 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR NICHT BESTUECKT	LD 0009.6753.00	TOKO	LL1608-FH...K	
L176	LD 56 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6830.00	TOKO	LL2012-F56NK	
L177	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L178	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L179	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
L180	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L181	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L182	LD 10UH 10% 0,18A 1210 SMD-INDUCTOR	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L183	LD 10 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR NICHT BESTUECKT	LD 0009.6699.00	TOKO	LL1608-FH...K	
L184	LD 820NH 10% 0,14A 1210 SMD-INDUCTOR	0009.6424.00	SIEMENS	B82422-A3821-J(K)100	
L185	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L186	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L187	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
L188	LD 4,7UH 10% 0,15A 1210 SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-J(K)100	
L189	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-J(K)100	
L190	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
L191	LD 180NH 5% OR2 1010 INDUCTOR SURFACE MOUNT	1051.5229.00	STETTNER	5501 1813200	
L192	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
L193	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-J(K)100	
N1	BM MAR7 MMIC BROADBAND AMPLIFIER	0520.7334.00	MINI-CIRCU	MAR7	
N2	BL MC12093D 2/4/8 PRESC IC PROGR PRESCALER	1062.6438.00	MOTOROLA	12093(D)	
N3	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N4	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N5	BO MC1458D 2X OPAMP OPERATION AMPLIFIER	0007.3763.00	SIGNETICS	MC1458(D)	
N6	BO NE5534AD LN OPAMP IC OPAMP	1011.5528.00	SIGNETICS	NE5534A(D)	
N7	BO AD810AR CF OPAMP IC OPAMP	2013.8943.00	ANALOG_DEV	AD810AR	
N8	BO LM224D 4XLP OPAMP OPERATIONAL AMPLIFIER	0007.7852.00	SIGNETICS	LM224D	
N9	BO TL072ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N10	BO OP97FS LP PREC OPAMP OPAMP	1036.4390.00	PMI	OP97F(S)	
N11	BM SNA286 DC-6,5G MMIC MIKROWAVE MONOLITIC AMPL	1097.6286.00	STANFORD	SNA-286	
N12	BO OP07CS8 OPAMP OPERATIONAL AMPLIFIER	0007.7781.00	LINEAR_TEC	LT1001(CS8)	
N13	BJ LF398S8 SAMPLE/HOLD SAMPLE AND HOLD AMPLIFIER	0802.4375.00	LINEAR_TEC	(LF)398(S8)	
N14	BO TL072ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N15	BM SNA286 DC-6,5G MMIC MIKROWAVE MONOLITIC AMPL	1097.6286.00	STANFORD	SNA-286	
N16	BO LM224D 4XLP OPAMP OPERATIONAL AMPLIFIER	0007.7852.00	SIGNETICS	LM224D	
N17	BO LT1056S8 FET OPAMP OPERATIONAL AMPLIFIER	0007.7800.00	LINEAR_TEC	LT1056(S8)	
N18	BM MSA0886 DC-5.5G MMIC IC MONOLYTIC AMPLIFIER	0009.0349.00	MINI-CIRCU	MAR-8SM	
N19	BM MSA0986 0.1-5.0G MMIC MICROWAVE MONOLITIC AMPL	1002.4922.00	AVANTEK	MSA0986TR1	
N20	BM INA10386 DC-1.8G MMIC IC MICROWAVE AMPL	1051.4768.00	HEWLETT_PA	INA-10386-TR1	
N21	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
N22	BO AD606JR LOG.VERSTAERK. IC LOG. AMPLIFIER	0840.4940.00	ANALOG_DEV	AD606JR	
N23	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
N24	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
N25	BM MSA0386 DC-2.4G MMIC BROAD-BAND AMPLIFIER	0848.4461.00	AVANTEK	MSA0386	
N26	BO TL074ACD 4XFET OPAMP OPERATIONAL AMPLIFIER	0007.7823.00	TEXAS	TL074A(CD)	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
N27	BO LM224D 4XLP OPAMP OPERATIONAL AMPLIFIER	0007.7852.00	SIGNETICS	LM224D	
N28	BO NE5534D OPAMP OPERATIONAL AMPLIFIER NICHT BESTUECKT	0815.7555.00	SIGNETICS	NE5534(D)	
N29	BO LM2903D 2XLP COMPAR DUAL	0520.7734.00	SIGNETICS	LM2903(D)	
N30	BO LM224D 4XLP OPAMP OPERATIONAL AMPLIFIER	0007.7852.00	SIGNETICS	LM224D	
N31	BO NE5534D OPAMP OPERATIONAL AMPLIFIER	0815.7555.00	SIGNETICS	NE5534(D)	
P1	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P2	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P4	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P7	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P10	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P12	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R2	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	PHILIPS_CO	RC02	
R3	RG 16,2OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.8933.00	DRALORIC	CR 0603	
R4	RG 16,2OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.8933.00	DRALORIC	CR 0603	
R5	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R6	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	PHILIPS_CO	RC02	
R7	RG 1,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9997.00	PHILIPS_CO	RC02	
R8	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	PHILIPS_CO	RC02	
R9	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R10	RG 432 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5689.00	PHILIPS_CO	RC02	
R11	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	PHILIPS_CO	RC02	
R12	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	PHILIPS_CO	RC02	
R13	RG 0,05W 22R +-1% 0805 RESISTOR	RG 0007.8920.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R14	RG 110 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8890.00	PHILIPS_CO	RC02	
R15	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	PHILIPS_CO	RC02	
R16	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	PHILIPS_CO	RC02	
R17	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R18	RG 0,05W 150R +-1% 0805 RESISTOR	RG 0007.9026.00	HONEST_JAP	RN 73 C(E)2X..F (1%)	
R19	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R20	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R21	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R22	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R23	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R24 ..27	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R28	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R29	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R30	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R31	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R32	RG 47OR +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R33	RG 150R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6947.00	DRALORIC	CR 0603	
R34	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R35	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R36	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R37	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R38	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R39	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R40	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R41 ..46	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R47 ..50	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	PHILIPS_CO	RC02	
R51	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R52 ..55	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	PHILIPS_CO	RC02	
R56	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R57	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R58 ..68	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R69	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	PHILIPS_CO	RC02	
R70	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	PHILIPS_CO	RC02	
R71	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R72	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	PHILIPS_CO	RC02	
R73	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R74	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	PHILIPS_CO	RC02	
R75	RG 75,0 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8855.00	PHILIPS_CO	RC02	
R76	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R77	RG 1,0 OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8265.00	PHILIPS_CO	RC 02	
R78	RG 20,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5472.00	PHILIPS_CO	RC02	
R79	RG 1,100HM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8271.00	PHILIPS	RC 02	
R80	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0729.00	PHILIPS_CO	RC02	
R81 ..83	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R84	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	PHILIPS_CO	RC02	
R85	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R86	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R87 ..90	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R91 ..94	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R95 ..97	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R98	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R99	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R100	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R101	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	PHILIPS_CO	RC02	
R102	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	PHILIPS_CO	RC02	
R103	RG 2,21OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8342.00	PHILIPS	RC 02	
R104	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R105	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R106	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R107	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R108 ..111	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R112	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R113	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	PHILIPS_CO	RC02	
R114	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	PHILIPS_CO	RC02	
R115	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R116	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R117	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	PHILIPS_CO	RC02	
R118	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R119	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R120	RG 357 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6040.00	PHILIPS_CO	RC02	
R121	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R122	RG 162 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8932.00	PHILIPS_CO	RC02	
R123	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	PHILIPS_CO	RC02	
R124	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R125	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R126	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	PHILIPS_CO	RC02	
R127	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R128	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	PHILIPS_CO	RC02	
R129	RG 432 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5689.00	PHILIPS_CO	RC02	
R130	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R131	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R132	RG 2K2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7008.00	DRALORIC	CR 0603	
R133	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R134	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R135	RG 750 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6127.00	PHILIPS_CO	RC02	
R136	RS 0,25W 1KOHM +-20% SMD RG POTENTIOMETER	RS 0007.9610.00	BI_TECHNOL	23 B R... TR	
R137	RG 750 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6127.00	PHILIPS_CO	RC02	
R138	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R139	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NICHT BESTUECKT				
R140	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R141	RS 0,25W200KOHM+-20% SMD POTENTIOMETER	RS 0007.9684.00	BI_TECHNOL	23 B R... TR	
R142	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R143	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R144	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R145	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R146	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	PHILIPS_CO	RC02	
R147	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R148	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R149	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R150	RG 110 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8890.00	PHILIPS_CO	RC02	
R151	RG 12,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0841.00	PHILIPS_CO	RC02	
R152	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R153	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R154	RG 7,5KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0764.00	PHILIPS_CO	RC02	
R155	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	PHILIPS_CO	RC02	
R156	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	PHILIPS_CO	RC02	
R157	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RC02	
R158	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	PHILIPS_CO	RC02	
R159	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R160	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R161	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	PHILIPS_CO	RC02	
R162	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R163	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R164	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R165	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0815.7532.00	PHILIPS_CO	RC 02	
R166	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R167	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R168	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R169	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R170	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R171	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	PHILIPS_CO	RC02	
R172	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R173	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R174	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R175	RG 470K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7120.00	DRALORIC	CR 0603	
R176	RG 12K1 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8462.00	DRALORIC	CR 0603	
R177	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R178	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R179	RG 16,2KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0870.00	PHILIPS_CO	RC02	
R180	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R181	RG 43,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5550.00	PHILIPS_CO	RC02	
R182	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R183	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R184	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R185	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R186	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R187	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R188	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R189	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R190	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R191	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R192	RG 1,21OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8288.00	PHILIPS	RC 02	
R193	RG 1,0 OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8265.00	PHILIPS_CO	RC 02	
R194	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	PHILIPS_CO	RC02	
R195	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R196	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	PHILIPS_CO	RC02	
R197	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R198	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R199	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R200	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R201	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	PHILIPS_CO	RC02	
R202	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R203	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R204	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R205	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R206	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R207	RG 1,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9951.00	PHILIPS_CO	RC02	
R208	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R209	RG 274 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.4460.00	PHILIPS_CO	RC02	
R210	RG 13,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5837.00	PHILIPS_CO	RC02	
R211	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R212	RG 43,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5550.00	PHILIPS_CO	RC02	
R213	RG 90,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8878.00	PHILIPS_CO	RC02	
R214	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	PHILIPS_CO	RC02	
R215	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R216	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R217	RG 90,9 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8878.00	PHILIPS_CO	RC02	
R218	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R219	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R220	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R221	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R222	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R223	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R224	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R225	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R226	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R227	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R228	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R229	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R230	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R231	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R232	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R233	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	PHILIPS_CO	RC02	
R234	RG 5,11OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8436.00	PHILIPS	RC 02	
R235	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	PHILIPS_CO	RC02	
R236	RG 75,0 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8855.00	PHILIPS_CO	RC02	F
R236	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	PHILIPS_CO	RC02	
R237	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	PHILIPS_CO	RC02	
R238	RG 75,0 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8855.00	PHILIPS_CO	RC02	F
R238	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	PHILIPS_CO	RC02	
R239	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	PHILIPS_CO	RC02	
R240	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R241	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	PHILIPS_CO	RC02	
R242	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R243	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R244	RG 43,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5550.00	PHILIPS_CO	RC02	
R245	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R246	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	PHILIPS_CO	RC02	
R247	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	PHILIPS_CO	RC02	
R248	RG 43,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5550.00	PHILIPS_CO	RC02	
R249	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R250	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R251	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NICHT BESTUECKT				
R252	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R253	RG 15R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R254	RS 0,25W100 OHM+-20% SMD POTENTIOMETER	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
	NICHT BESTUECKT				
R255	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R256	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R257	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	PHILIPS_CO	RC02	
R258	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R259	RG 20,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5472.00	PHILIPS_CO	RC02	
R260	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	PHILIPS_CO	RC02	
R261	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R262	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R263	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	PHILIPS_CO	RC02	
R264	RG 330R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6960.00	DRALORIC	CR 0603	
R265	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	PHILIPS_CO	RC02	
R266	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R267	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R268	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R269	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R270	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R271	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R272	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	PHILIPS_CO	RC02	
R273	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R274	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R275	RG 330R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6960.00	DRALORIC	CR 0603	
R276	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R277	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R278	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R279	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
R280	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	PHILIPS_CO	RC02	
R281	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RC02	
R282	RG 16,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8690.00	PHILIPS_CO	RC02	
R283	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R284	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	PHILIPS_CO	RC02	
R285	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R286	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RCO2	
R287	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RCO2	
R288	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RCO2	
R289	RG 24,3 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5495.00	PHILIPS_CO	RCO2	
R290	RG 357 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5666.00	PHILIPS_CO	RCO2	
R291	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RCO2	
R292	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R293	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R294	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RCO2	
R295	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	PHILIPS_CO	RCO2	
R296	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R297	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RCO2	
R298	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R299	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R300	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	PHILIPS_CO	RCO2	
R301	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	PHILIPS_CO	RCO2	
R302	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R303	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RCO2	
R304	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R305	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R306	RG 35,7 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5537.00	PHILIPS_CO	RCO2	
R307	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	PHILIPS_CO	RCO2	
R308	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R309	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R310	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R311	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R312	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	PHILIPS_CO	RCO2	
R313	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RCO2	
R314	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R315	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RCO2	
R316	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	PHILIPS_CO	RCO2	
R317	RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5914.00	PHILIPS_CO	RCO2	
R318	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RCO2	
R319	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R320	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RCO2	
R321 ..325	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RCO2	
R326	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	PHILIPS_CO	RCO2	

Kennz. Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R327	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R328	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R329	RG 6,81KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0007.0758.00	PHILIPS_CO	RC02	
R330	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R331	RG 8,25KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0007.0770.00	PHILIPS_CO	RC02	
R332	RG 51,1KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0007.1877.00	PHILIPS_CO	RC02	
R333	RG 100 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.8884.00	PHILIPS_CO	RC02	
R334	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R335	RG 47,5KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5950.00	PHILIPS_CO	RC02	
R336	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5820.00	PHILIPS_CO	RC02	
R337	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5820.00	PHILIPS_CO	RC02	
R338	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R339	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR NICHT BESTUECKT	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R340	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR NICHT BESTUECKT	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R341	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R342	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R343	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R344	RG 1,62KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.9997.00	PHILIPS_CO	RC02	
R345	RG 82,5 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.8861.00	PHILIPS_CO	RC02	
R347	RG 1KO +-1% TK200 SMD-RESISTOR EIA0603	0603	RG 0009.5340.00	DRALORIC	CR 0603	
R348	RG 562 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.9068.00	PHILIPS_CO	RC02	
R349	RG 15,0KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5843.00	PHILIPS_CO	RC02	
R350	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R351	RG 16,2OHM+-1%TK200 SMD-RESISTOR EIA0603	0603	0009.8933.00	DRALORIC	CR 0603	
R352	RG 82,5 OHM+-1%TK200 SMD-RESISTOR EIA0603	0603	0009.9052.00	DRALORIC	CR 0603	
R353	RG 150 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5589.00	PHILIPS_CO	RC02	
R354	RG 121 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.8903.00	PHILIPS_CO	RC02	
R355	RG 121 OHM+-1%TK200 SMD-RESISTOR EIA0603	0603	0009.9498.00	DRALORIC	CR 0603	
R356	RG 274 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5637.00	PHILIPS_CO	RC02	
R357	RG 47R +-1% TK200 SMD-RESISTOR EIA0603 NICHT BESTUECKT	0603	0009.6924.00	DRALORIC	CR 0603	
R358	RG 47R +-1% TK200 SMD-RESISTOR EIA0603 NICHT BESTUECKT	0603	0009.6924.00	DRALORIC	CR 0603	
R359	RG 475 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5695.00	PHILIPS_CO	RC02	
R360	RG 475 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5695.00	PHILIPS_CO	RC02	
R361	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R362	RG 100,0KOH+-1%TK100 CHIP RESISTOR	1206	RG 0007.1948.00	PHILIPS_CO	RC02	
R363	RG 1KO +-1% TK200 SMD-RESISTOR EIA0603 NICHT BESTUECKT	0603	RG 0009.5340.00	DRALORIC	CR 0603	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R364	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R365	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R366	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R367	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R368	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R369	RG 432 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9098.00	DRALORIC	CR 0603	
R370	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R371	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
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 NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R374	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R375	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R376	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R377	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R378	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R379	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R380	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RC02	
R381	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	PHILIPS_CO	RC02	
R382	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	PHILIPS_CO	RC02	
R383	RG 82,5KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1925.00	ROEDERSTEI	D25	
R384	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R385	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R386	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT	RG 0007.0793.00	PHILIPS_CO	RC02	
R387	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R388	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R389	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R390	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0729.00	PHILIPS_CO	RC02	
R391	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R392	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R393	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0815.7532.00	PHILIPS_CO	RC 02	
R394	RS 0,25W100 OHM+-20% SMD POTENTIOMETER NICHT BESTUECKT	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R395	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R396	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NICHT BESTUECKT				
R398	RL 0,60W 392 KOHM+-1%TK50 RESISTOR	RL 0083.2512.00	RESISTA	MK2	
R399	RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5914.00	PHILIPS_CO	RC02	
R400	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R401	RG 30,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5908.00	PHILIPS_CO	RC02	
R402	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	RS 0007.9632.00	BI_TECHNOL	23 B R... TR	
R403	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R404	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R405	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R406	RG 274 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5637.00	PHILIPS_CO	RC02	
R407	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R408	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R409	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R410	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R411	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R412	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R413	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R414	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT	RG 0007.5695.00	PHILIPS_CO	RC02	
R415	RG 56,2KOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0007.1883.00	PHILIPS_CO	RC02	
R416	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R417	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	0009.6924.00	DRALORIC	CR 0603	
R418	RG 68R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R419	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R420	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R421	RG 121,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1960.00	PHILIPS_CO	RC02	
R422	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R423	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R424	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	PHILIPS_CO	RC02	
R425	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	PHILIPS_CO	RC02	
R426	RG 68,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1902.00	PHILIPS_CO	RC02	
R427	RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5708.00	PHILIPS_CO	RC02	
R428	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R429	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R430	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	PHILIPS_CO	RC02	
R431	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R432	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R433	RG 301 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5643.00	PHILIPS_CO	RC02	
R434	RG 357 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5666.00	PHILIPS_CO	RC02	
R435	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	PHILIPS_CO	RC02	
R436	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00	DRALORIC	CR 0603	
R437	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00	DRALORIC	CR 0603	
R438	RG 301 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5643.00	PHILIPS_CO	RC02	
R439	RG O-OHM WIDERSTAND 1206 RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R440	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R441	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R442	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	PHILIPS_CO	RC02	
R443	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R444	RG O-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R445 ..448	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R449 ..451	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R452	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R453	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R454	RG O-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R455	RG O-OHM WIDERSTAND 1206 RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R456	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	PHILIPS_CO	RC02	
R457	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R458	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R459	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R460 ..462	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R463	RG O-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R464	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R465	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R466	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R467	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R468	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R469	RG O-OHM WIDERSTAND 1206 RESISTOR CHIP O-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R470	RS 0,25W 1KOHM +-20% SMD RG POTENTIOMETER NICHT BESTUECKT	RS 0007.9610.00	BI_TECHNOL	23 B R... TR	
R471	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	PHILIPS_CO	RC02	
R472	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R473	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R474	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R475	RG O-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R476	RS 0,25W 1KOHM +-20% SMD RG POTENTIOMETER NICHT BESTUECKT	RS 0007.9610.00	BI_TECHNOL	23 B R... TR	
R477	RG 11,0KOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0007.0806.00	PHILIPS_CO	RC02	
R478	RG 39,2KOHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT	RG 0007.5937.00	PHILIPS_CO	RC02	
R479	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R480	RG 121,0KOH+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0007.1960.00	PHILIPS_CO	RC02	
R481	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R482	RS 0,25W100 OHM+-20% SMD POTENTIOMETER NICHT BESTUECKT	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R483	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R484	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0758.00	PHILIPS_CO	RC02	
R485	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R486	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603 TRIMMWERT	0009.6976.00	DRALORIC	CR 0603	
R487	RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	PHILIPS_CO	RC02	
R488	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R489	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R490	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R491	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R492	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R493	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R494	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R495	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	PHILIPS_CO	RC02	
R496	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	PHILIPS_CO	RC 02	
R497	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	PHILIPS_CO	RC02	
R498	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R499	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R500	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5340.00	DRALORIC	CR 0603	
R501	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R503	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.9068.00	PHILIPS_CO	RC02	
R504	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R505	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R506	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R507	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT	RG 0006.7271.00	PHILIPS_CO	RC02	
R508	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	NICHT BESTUECKT				
R509	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R510	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R511	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R512	RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0735.00	PHILIPS_CO	RC02	
R513	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R514	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R515	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
	NICHT BESTUECKT				
R516	RG 221 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6004.00	PHILIPS_CO	RC02	
R517	RG 680K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7137.00	DRALORIC	CR 0603	
R518	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
	NICHT BESTUECKT				
R519	RG 5,11KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0729.00	PHILIPS_CO	RC02	
R520	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	PHILIPS_CO	RC02	
R521	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R522	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603	
R523	RG 1KO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603	
R524	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	PHILIPS_CO	RC02	
R525	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	PHILIPS_CO	RC02	
R526	RG 220K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7108.00	DRALORIC	CR 0603	
R527	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	PHILIPS_CO	RC02	
R528	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5720.00	PHILIPS_CO	RC02	
R531	RG 7K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8440.00	DRALORIC	CR 0603	
R532	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R533	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R550	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	DRALORIC	CR 0603	
R560	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R561	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
T1	LU HF-UEBERTR.200MHZ SMD RF-TRANSFORMER	1051.5187.00	MINI-CIRCU	T1-1T-KK TR	
U1	BM RMS-1 MIXER 500M MIXER MODULE	0846.4393.00	MINI-CIRCU	RMS-1	
U2	BM RMS-1 MIXER 500M MIXER MODULE	0846.4393.00	MINI-CIRCU	RMS-1	
U3	BJ PM7533GS 1X10B-DAC D/A-CONVERTER	2033.1473.00	ANALOG_DEV	AD7533KR	
U4	BO LM2903D 2XLP COMPAR DUAL	0520.7734.00	SIGNETICS	LM2903(D)	
V1	AK BSR13 N 30V 800MA TRANSISTOR	AK 0007.2209.00	VALVO	BSR 13	
V2	AK BCP68-16 N 20V TRANS MEDIUM POWER TRANSISTOR	0008.2019.00	PHILIPS	BCP68-25	
V3	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V4	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V5	AK BSR13 N 30V 800MA TRANSISTOR	AK 0007.2209.00	VALVO	BSR 13	
V6	AK BCX17 P 45V 500MA TRANSISTOR	AK 0007.2080.00	PHILIPS	BCX17	
V7	AK BFR193 N 12V 80MA TRANSISTOR	6024.2718.00	SIEMENS	BFR193 (-F1218)	
V8	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V9	AE BB405B 11/ 2PF CDI TUNING DIODE	AE 0596.6839.00	PHILIPS	BB405B	
V10	AK BCP68-16 N 20V TRANS MEDIUM POWER TRANSISTOR	0008.2019.00	PHILIPS	BCP68-25	
V11	AE BAS70-04 2XSCHOTTKY SCHOTTKY DIODE	AE 0644.0976.00	SIEMENS	BAS70-04 (-A730)	
V12	AM BSS84 P-E 50V MOSF TRANSISTOR	4021.1524.00	SIEMENS	BSS84(-S568)	
V13	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V14	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V15	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V16	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V17	AE HSMS2800 SCHOTTKY 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	AK NE85635 N 12V 100MA TRANSISTOR	0807.1080.00	NEC	NE85635	
V21	AK BSR12 P 15V 100MA TRANSISTOR	AK 0007.2067.00	PHILIPS_SE	BSR12	
V22	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V23	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V24	AE BZV55/C12 0,5W ZDI ZENER DIODE	AE 0006.9897.00	PHILIPS_SE	BZV55B12	
V25	AE BAR64 PIN PIN DIODE	1039.3059.00	SIEMENS	BAR64 (Q62702A1041)	
V26	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V27	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V28	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V29	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V30	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V31	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V32	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V33	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V34	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V35	AE HSMS2805 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1002.4974.00	HEWLETT_PA	HSMS2805 L31	
V36	AE BAR64 PIN PIN DIODE	1039.3059.00	SIEMENS	BAR64 (Q62702A1041)	
V37	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V38	AE BAR64 PIN PIN DIODE	1039.3059.00	SIEMENS	BAR64 (Q62702A1041)	
V39	AK BF799 N 30V 35MA TRANSISTOR NICHT BESTUECKT	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V40	AE BAR14-1 2X 100V PIN PIN DIODE	0820.3283.00	SIEMENS	BAR14-1 (-A772)	
V41	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V42	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V43	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V44	AM BF513 N-D 20V JFET TRANSISTOR	2035.6050.00	PHILIPS_SE	BF513	
V45	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V46	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V47	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V48	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V49	AE BA885 50V PIN PIN DIODE	0817.1490.00	SIEMENS	BA885	
V50	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V51	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V52	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V53	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V54	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V55	AK BF799 N 30V 35MA TRANSISTOR NICHT BESTUECKT	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V56	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V57	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V58	AE BZV55/C3V9 0,5W ZDI ZENER DIODE	AE 0006.9816.00	PHILIPS_SE	BZV55B3V9	
V59	AE BZV55/C6V8 0,5W ZDI ZENER DIODE	AE 0006.9868.00	PHILIPS	BZV55/B6V8	
V60 ..62	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V63	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V64	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V65	AM BSR58 N-D 40V JFET JFET	2020.3672.00	PHILIPS	BSR58	
V66	AM BSR58 N-D 40V JFET JFET	2020.3672.00	PHILIPS	BSR58	
V67	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V68	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V70	AE BAR14-1 2X 100V PIN PIN DIODE NICHT BESTUECKT	0820.3283.00	SIEMENS	BAR14-1 (-A772)	
V71	AK BF799 N 30V 35MA TRANSISTOR	0822.0375.00	SIEMENS	BF799 (Q62702-F935)	
V72	AE BZV55/C5V6 0.5W ZDI ZENER DIODE	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V73	AE BA885 50V PIN PIN DIODE NICHT BESTUECKT	0817.1490.00	SIEMENS	BA885	
V74	AE BAR64 PIN PIN DIODE	1039.3059.00	SIEMENS	BAR64 (Q62702A1041)	
V75	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V76	AE BAR60 3X(T) 100V PIN PIN DIODE	1051.5612.00	SIEMENS	BAR60	
V77	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V78	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V79	AD BAS32 75V UDI DIODE NICHT BESTUECKT	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V80	AE BZV55/10V 0,5W ZDI ZENER DIODE	AE 0006.9880.00	PHILIPS_SE	BZV55C10	
V81	AM SST177 P-D 30V JFET P-CHANNEL JFET NICHT BESTUECKT	4005.3003.00	SILICONIX	SST177	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V82	AE BAR14-1 2X 100V PIN DIODE	0820.3283.00	SIEMENS	BAR14-1 (-A772)	
V83	AE BZV55/C4V7 0.5W ZDI ZENER DIODE	AE 0006.9822.00	PHILIPS	BZV55B4V7	
X1	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1110	
X2	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1110	
X3	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X4	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1110	
X5	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1110	
X6	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X7	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X8	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X9	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X21	FP STECKERLEISTE 96POL. CONNECTOR 96P.	FP 0008.5753.00	SIEMENS	V42254-B1200-C910	
X201	FJ EINBAUSTECKER F.GS SMB ANGLE CONNECTOR	FJ 0602.8804.00	ROSENBERGE	59S-206-400-D3	
X202	FJ EINBAUSTECKER F.GS SMB ANGLE CONNECTOR	FJ 0602.8804.00	ROSENBERGE	59S-206-400-D3	
X203	FJ EINBAUWINKELST. SMC ANGLE CONNECTOR	FJ 0249.9684.00	IMS	82.1524.201	
X22A	FP STIFTL.WIN 5P.R2,54 ANGLE PIN CONNECTOR	FP 0009.7214.00			
X22B	FP STIFTL.WIN 5P.R2,54 ANGLE PIN CONNECTOR	FP 0009.7420.00			
Z1	:: 1CMK/NG/SFEC10.7 NICHT BESTUECKT	1051.4816.00			
Z3	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	

ROHDE&SCHWARZ

XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

el. Kennz.	Bauelement-Kennzeichen
Seite	Leiterplatten-Seite, auf der sich das Bauelement befindet
X/Y	Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt
Planq., Bl.	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 (in units of millimeters) 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
B3	B	122	122	6C	13	P10	B	257	14	7B	12	X2	B	204	108	4C	16
B4	B	185	116	4D	16	P12	B	45	55	6A	9	X4	B	127	140	2C	13
L61	B	174	87	4B	11	R136	B	274	10	6A	12	X5	B	79	98	1A	8
L80	B	194	81	10C	16	R141	B	241	42	4D	12	X6	B	18	83	11B	8
L93	B	193	59	2B	14	R162	B	128	86	6C	3	X7	B	249	17	8C	12
L95	B	213	69	4A	14	R254	B	229	58	6B	14	X8	B	183	127	2D	16
L153	B	182	65	2B	14	R394	B	236	27	9D	12	X9	B	115	77	2D	6
L161	B	160	102	2B	11	R402	B	242	20	8C	12	X21	B	132	11	2E	3
L162	B	168	102	3B	11	R470	B	187	13	11D	5	X22A	B	231	137	3B	4
L164	B	267	99	4C	14	R476	B	121	79	2D	6	X22B	B	231	135	3D	4
P1	B	246	117	4D	14	R482	B	112	77	3B	6	X201	B	220	123	11C	2
P4	B	244	24	6D	12	R486	B	112	72	2B	6	X202	B	204	123	2B	2
P7	B	45	52	5A	9	X1	B	173	98	3D	11	X203	B	171	123	2B	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
B1-A	B	27	11	4D	7	C32	B	24	122	7B	7	C66	A	58	35	4D	8
B1-B				3F	7	C33	B	16	121	7B	7	C67	A	67	32	6E	8
B2	B	142	129	2D	13	C34	B	15	107	7B	7	C68	A	55	38	6F	8
C1	B	101	34	4A	3	C35	B	34	128	8B	7	C69	A	16	29	7A	8
C2	B	93	31	5A	3	C36	B	37	120	8B	7	C70	A	27	29	7E	8
C3	B	107	32	3B	3	C37	A	78	113	1F	10	C71	B	19	31	8E	8
C4	A	121	31	4B	3	C38	A	59	137	5E	10	C72	A	35	51	7E	8
C5	A	110	39	5B	3	C39	B	55	139	5E	10	C73	B	20	10	2F	7
C6	A	116	32	3B	3	C40	A	22	17	2E	7	C74	B	33	43	8E	8
C7	A	126	90	6C	3	C41	B	61	133	6E	10	C75	B	15	43	9B	8
C8	B	46	110	2B	10	C42	B	67	124	5A	10	C76	B	30	54	9D	8
C9	A	55	108	3A	10	C43	B	64	114	7A	10	C77	B	31	57	9E	8
C10	A	132	31	4C	3	C44	B	70	111	7A	10	C78	B	29	31	9E	8
C11	A	124	39	5C	3	C45	B	69	121	6B	10	C79	B	18	55	10A	8
C12	A	126	31	3C	3	C46	B	60	110	3B	10	C80	B	23	63	10A	8
C13	A	135	42	5D	3	C47	B	48	133	3C	10	C81	B	15	63	10B	8
C14	A	135	31	4D	3	C48	B	46	120	2C	10	C82	B	15	54	10B	8
C15	A	144	28	4E	3	C49	B	66	102	2B	8	C83	B	23	75	11A	8
C16	A	145	42	5E	3	C50	A	61	97	2A	8	C84	A	26	94	2C	7
C17	A	146	32	3D	3	C51	A	25	17	3E	7	C85	B	263	84	11B	14
C18	B	44	15	2E	7	C52	B	54	98	3B	8	C86	A	30	76	10C	8
C19	A	22	58	11E	8	C53	B	66	97	2A	8	C87	B	30	69	10D	8
C20	A	31	107	12C	8	C54	B	64	103	2A	8	C88	A	16	81	11E	8
C21	A	21	71	11B	8	C55	A	61	48	1F	8	C89	A	13	78	11D	8
C22	A	96	77	4F	5	C56	A	72	48	1F	8	C90	A	46	71	3C	9
C23	A	35	72	10C	8	C57	A	62	69	3E	8	C91	B	51	65	4C	9
C24	A	35	77	10C	8	C58	A	70	70	4E	8	C92	A	65	53	7C	9
C25	B	37	97	4C	7	C59	A	70	80	4E	8	C93	A	50	46	7C	9
C26	B	37	109	4B	7	C60	A	67	81	4E	8	C94	A	81	47	7C	9
C27	B	26	104	5B	7	C61	B	49	79	4B	8	C95	A	29	98	3C	7
C28	B	22	110	5B	7	C62	A	20	8	2F	7	C96	A	65	32	7C	9
C29	B	34	9	2D	7	C63	B	54	86	5C	8	C97	A	56	69	3E	9
C30	B	19	97	6C	7	C64	A	54	89	5B	8	C98	A	35	96	3C	7
C31	B	19	114	6B	7	C65	B	79	66	6D	8	C99	A	238	24	7E	12

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C100	B	274	41	2E	12	C155	A	239	108	4E	15	C210	B	196	67	3B	14
C101	B	273	46	2D	12	C156	A	233	87	5C	15	C211	A	197	58	3B	14
C102	B	268	40	3E	12	C157	A	237	76	3E	15	C212	A	204	58	3A	14
C103	B	269	38	3E	12	C158	B	247	121	5E	14	C213	A	112	143	2A	13
C104	B	162	55	8F	5	C159	A	232	79	3E	15	C214	B	204	66	3B	14
C105	A	186	124	4B	16	C160	A	239	95	2E	15	C215	A	263	95	3E	14
C106	B	134	131	3D	13	C161	A	236	100	2E	15	C216	B	206	66	4B	14
C107	A	248	53	8C	14	C162	A	219	87	2E	15	C217	B	210	58	4B	14
C108	A	243	69	8B	14	C163	B	126	130	3D	13	C218	A	213	66	5B	14
C109	B	253	56	8B	14	C164	A	233	90	3E	15	C219	B	222	114	11D	14
C110	A	255	11	8E	12	C165	A	163	53	2B	5	C220	A	218	66	5B	14
C111	B	194	127	4B	16	C166	A	233	84	3E	15	C221	B	222	60	5A	14
C112	A	260	62	8C	14	C167	A	217	29	8F	5	C222	A	234	59	6B	14
C113	B	194	118	4B	16	C168	A	163	57	2B	5	C223	A	224	58	6A	14
C114	B	128	39	7E	3	C169	A	154	57	3B	5	C224	B	130	128	3B	13
C115	B	246	47	5C	12	C170	A	100	48	3C	5	C225	B	238	64	6A	14
C116	A	259	41	6D	12	C171	A	154	45	3C	5	C226	A	244	57	7A	14
C117	B	243	36	6D	12	C172	B	104	117	5C	13	C227	B	231	67	7C	14
C118	B	258	27	7D	12	C173	A	121	126	6C	13	C228	B	249	70	7A	14
C119	A	115	93	7D	3	C174	A	118	123	6C	13	C229	B	255	68	9B	14
C120	A	110	89	7C	3	C175	A	94	123	6E	13	C230	A	274	67	10C	14
C121	A	250	7	8E	12	C176	A	94	119	4E	13	C231	A	274	72	10B	14
C122	B	85	121	5B	10	C177	A	110	123	6F	13	C232	B	265	70	10B	14
C123	B	55	137	5E	10	C178	B	208	97	8D	16	C233	B	274	80	10C	14
C124	A	275	21	4B	12	C179	B	208	78	10D	16	C234	A	265	86	11B	14
C125	A	262	7	7A	12	C180	B	107	140	2C	13	C235	B	126	133	3C	13
C126	A	268	8	7B	12	C181	B	206	78	10D	16	C236	B	275	84	11C	14
C127	B	151	9	10B	12	C182	A	200	97	9E	16	C237	B	249	81	11B	14
C128	B	248	59	7B	14	C183	A	149	126	4B	13	C238	A	256	78	12C	14
C129	B	259	8	7B	12	C184	A	152	124	4B	13	C239	B	249	88	1C	14
C130	B	141	16	11B	12	C185	A	137	125	4B	13	C240	B	269	88	1C	14
C131	A	252	7	8F	12	C186	A	133	128	4B	13	C241	A	258	113	4D	14
C132	A	271	17	6E	12	C187	B	194	103	4D	16	C242	A	262	110	3D	14
C133	A	257	24	6E	12	C188	B	193	101	6D	16	C243	A	250	95	1E	14
C134	A	257	18	6F	12	C189	B	195	92	7C	16	C244	A	259	91	2E	14
C135	A	275	28	6F	12	C190	A	188	103	7D	16	C245	A	267	116	3C	14
C136	B	262	116	6F	14	C191	A	115	139	3A	13	C246	B	115	124	6D	13
C137	B	150	102	2B	11	C192	B	250	97	6D	14	C247	A	266	110	4C	14
C138	B	79	120	6B	10	C193	B	239	96	7D	14	C248	A	265	101	4C	14
C139	A	261	83	11B	14	C194	B	191	86	8C	16	C249	B	253	107	5D	14
C140	B	51	14	1E	7	C195	B	191	90	8D	16	C250	B	245	107	5E	14
C141	A	149	98	3A	11	C196	B	234	120	11E	14	C251	B	261	102	5D	14
C142	B	170	93	4B	11	C197	B	206	84	9C	16	C252	B	249	100	6D	14
C143	A	53	126	8A	10	C198	B	222	118	11D	14	C253	B	249	91	6D	14
C144	A	249	123	2C	4	C199	B	250	86	2C	14	C254	B	237	98	7E	14
C145	B	62	133	8E	10	C200	A	197	110	6C	16	C255	B	233	92	7E	14
C146	B	73	126	8D	10	C201	A	203	76	9D	16	C256	B	233	95	7E	14
C147	A	75	130	8E	10	C202	B	155	124	2D	13	C257	A	119	130	4E	13
C148	B	157	90	3B	11	C203	A	200	79	9D	16	C258	B	216	95	7D	14
C149	B	78	133	7B	10	C204	A	208	86	10D	16	C259	B	225	100	8D	14
C150	B	46	14	2E	7	C205	A	205	79	10D	16	C260	B	233	104	8D	14
C151	B	92	140	2B	13	C206	A	210	66	11D	16	C261	B	225	110	9D	14
C152	A	203	97	8E	16	C207	B	193	70	2B	14	C262	B	231	111	9D	14
C153	B	231	117	10D	14	C208	B	191	70	2B	14	C263	B	226	112	9D	14
C154	A	227	114	4E	15	C209	B	260	84	2C	14	C264	B	237	117	9E	14

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Part	Side	X	Y	Sqr	Pg
C265	A	226	127	7E	14
C266	A	236	124	7E	14
C267	A	272	91	3E	14
C268	A	126	60	1F	5
C269	A	52	132	3B	10
C270	B	76	122	8B	10
C271	B	48	140	4C	10
C272	B	75	109	8A	10
C273	B	80	142	7C	10
C274	B	78	135	8C	10
C275	A	97	89	6F	5
C276	B	74	90	2B	8
C277	A	57	120	8B	10
C278	A	29	102	11C	8
C279	A	135	51	2F	5
C280	A	97	41	2C	5
C281	A	107	51	3F	5
C282	A	102	59	3F	5
C283	A	208	14	7D	5
C284	A	222	17	8D	5
C285	A	222	33	8D	5
C286	A	201	43	8D	5
C287	A	193	25	8D	5
C288	A	104	48	3D	5
C289	A	163	45	2C	5
C290	A	117	57	2F	5
C291	A	107	38	2D	5
C292	A	163	49	2C	5
C293	A	154	49	3C	5
C294	A	163	41	2D	5
C295	B	156	10	3F	5
C296	A	163	37	2D	5
C297	A	154	41	3D	5
C298	A	177	45	11A	5
C299	B	177	12	9A	5
C300	A	169	69	7F	5
C301	A	154	34	3E	5
C302	A	97	91	6F	5
C303	A	201	22	2E	6
C304	A	218	22	2F	6
C305	A	163	34	2E	5
C306	A	154	37	3D	5
C307	A	163	64	2A	5
C308	B	153	23	2F	5
C309	A	154	64	3A	5
C310	A	163	60	2B	5
C311	A	154	60	3B	5
C312	A	96	75	6E	5
C313	A	154	53	3B	5
C314	A	236	7	7F	12
C315	A	233	11	7E	12
C316	A	243	138	3C	4
C317	A	249	120	2D	4
C318	A	253	138	3D	4
C319	A	35	19	1E	7
C320	B	264	33	4D	12
C321	B	262	36	4D	12
C322	B	186	122	3D	16
C323	A	175	114	4A	13
C324	A	183	108	5A	13
C325	B	56	130	7E	10
C326	B	58	128	7E	10
C327	B	266	96	1D	14
C328	B	257	62	8B	14
C329	A	253	63	9B	14
C330	A	126	57	1E	6
C331	B	100	43	4F	8
C332	A	268	46	2E	12
C333	A	271	42	2F	12
C334	A	268	39	3D	12
C335	A	265	32	4E	12
C336	A	257	36	4E	12
C337	B	259	39	5D	12
C338	A	235	46	5D	12
C339	B	244	41	5C	12
C340	B	244	43	5D	12
C341	B	139	97	1B	11
C342	B	151	97	2B	11
C343	B	159	96	3B	11
C344	B	170	90	4B	11
C345	B	185	95	4C	11
C346	B	261	94	1C	14
C347	B	267	109	4C	14
C348	B	267	107	4B	14
C349	B	272	100	4C	14
C350	B	271	93	5C	14
C351	B	272	44	5C	14
C352	B	238	127	11E	14
C353	A	268	64	8B	14
C354	B	266	68	9A	14
C355	B	263	56	9B	14
C356	A	258	69	10B	14
C357	A	249	73	10B	14
C358	B	122	133	3C	13
C359	B	173	110	11D	13
C360	B	138	116	7C	13
C361	A	143	119	7D	13
C362	B	150	114	8D	13
C363	A	154	112	8D	13
C364	B	146	110	8C	13
C365	A	151	119	9D	13
C366	B	141	109	8B	13
C367	B	154	119	8B	13
C368	B	153	114	9C	13
C369	A	158	112	10B	13
C370	A	161	109	10B	13
C371	B	168	113	10C	13
C372	A	186	121	4A	16
C373	A	182	89	4E	16
C374	A	186	86	4E	16
C375	A	194	79	4F	16
C376	A	191	76	4F	16
C377	B	104	130	4D	13
C378	B	106	125	4C	13
C379	B	204	93	8C	16
C380	B	219	91	2B	15
C381	A	221	91	2B	15
C382	A	236	115	4E	15
C383	A	171	11	6F	5
C384	A	180	10	6E	5
C385	A	124	73	2F	6
C386	A	119	73	2E	6
C387	A	115	80	2F	6
C388	A	110	80	2E	6
C389	A	139	67	3E	6
C390	B	30	11	6E	7
C391	B	17	66	10B	8
C392	B	17	57	10B	8
C393	B	17	48	9B	8
C394	B	23	49	9A	8
C395	B	23	57	10A	8
C396	B	15	72	10B	8
C397	B	23	66	10A	8
C398	B	15	45	9B	8
C399	B	23	46	9A	8
C400	B	25	70	10A	8
C401	B	77	87	5A	8
C402	B	117	120	6C	13
C411	B	21	77	11A	8
C412	A	20	71	11B	8
D1-A	A	13	10	3D	7
D1-B				3E	7
D1-C				2F	7
D2	B	61	97	2A	8
D3-A	B	58	75	4B	8
D3-B				3F	8
D4-A	A	55	50	2B	8
D4-B				2C	8
D4-C				2C	8
D4-D				2C	8
D4-E				1F	8
D5-A	A	70	50	2D	8
D5-B				2D	8
D5-C				2D	8
D5-D				2E	8
D5-E				1F	8
D6-A	A	18	29	7A	8
D6-B				7B	8
D6-C				7E	8
D7-A	A	30	53	7C	8
D7-B				7C	8
D7-C				7E	8
D8-A	B	23	33	8A	8
D8-B				8B	8
D8-C				8E	8

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Part	Side	X	Y	Sqr	Pg
D9-A	B	38	46	8C	8
D9-B				8C	8
D9-C				8E	8
D10-A	B	34	33	9A	8
D10-B				9D	8
D10-C				9E	8
D10-D				9E	8
D10-E				9E	8
D11-A	B	38	57	9C	8
D11-B				10E	8
D11-C				10E	8
D11-D				10D	8
D11-E				9E	8
D12	B	50	45	5A	9
D13-A	A	47	75	3C	9
D13-B				4C	9
D13-C				2C	9
D13-D				4C	9
D13-E				3E	9
D13-F				4C	9
D13-G				3E	9
D14-A	B	249	14	8B	12
D14-B				8E	12
D15-A	B	269	116	4E	14
D15-B				4E	14
D15-C				6F	14
D16-A	B	229	126	11D	14
D16-B				7F	14
D17-A	B	264	46	2E	12
D17-B				2F	12
D18	B	193	29	8B	5
D19-A	B	143	59	4B	5
D19-B				1F	5
D20-A	A	108	55	7B	5
D20-B				2F	5
D21-A	B	161	23	2A	5
D21-B				2B	5
D21-C				2B	5
D21-D				2C	5
D21-E				2F	5
D22-A	B	116	51	6B	5
D22-B				3F	5
D23-A	A	229	107	4B	15
D23-B				4E	15
D24-A	A	95	62	5A	5
D24-B				7A	5
D24-C				5F	5
D24-D				5F	5
D24-E				3F	5
D25-A	A	203	29	10D	5
D25-B				7F	5
D26	B	172	49	11B	5
D27-A	B	161	12	2D	5
D27-B				2D	5
D27-C				2E	5
D27-D				5F	5
D27-E				3F	5
D28-A	B	104	77	5E	5
D28-B				6E	5
D28-C				5E	5
D28-D				5F	5
D28-E				4F	5
D29-A	A	161	8	6D	5
D29-B				5E	5
D29-C				6F	5
D30-A	A	128	66	5A	6
D30-B				3E	6
D31-A	B	170	53	9D	5
D31-B				9E	5
D31-C				8F	5
D32-A	A	69	115	3D	10
D32-B				4E	10
D32-C				3E	10
D32-D				3D	10
D32-E				1F	10
D33	B	84	140	7C	10
D34	B	81	130	7B	10
D35	B	59	139	5E	10
D36	B	178	18	9A	5
D37-A	B	77	83	6C	8
D37-B				6C	8
D37-C				6B	8
D37-D				6B	8
D37-E				5A	8
G1	B	128	89	6C	3
L1	B	146	31	4E	3
L2	B	97	33	4A	3
L3	A	113	36	4B	3
L4	A	117	36	4B	3
L5	A	121	36	4B	3
L6	B	52	130	3C	10
L7	A	131	36	4C	3
L8	A	128	36	4C	3
L9	A	135	36	4D	3
L10	A	139	36	4D	3
L11	A	143	36	4D	3
L12	A	147	36	4D	3
L13	A	28	17	3E	7
L14	B	18	94	5C	7
L15	B	15	110	6B	7
L16	B	37	126	8B	7
L17	B	95	102	2D	10
L18	A	95	97	1D	10
L19	A	95	110	2D	10
L20	B	100	102	2E	10
L21	A	100	110	2E	10
L22	A	100	97	1E	10
L23	A	56	97	2A	8
L24	B	34	21	7D	7
L25	B	50	96	2A	8
L26	A	62	76	1E	8
L27	A	65	72	3E	8
L28	B	91	44	4F	8
L29	B	91	39	5F	8
L30	B	91	29	5F	8
L31	B	91	34	5F	8
L32	B	20	57	10A	8
L33	B	13	57	10B	8
L34	B	36	11	7E	7
L35	B	35	18	6D	7
L36	A	20	77	10C	8
L37	A	27	65	10D	8
L38	A	30	65	10D	8
L39	A	69	44	6C	9
L40	B	91	60	2C	9
L41	B	91	55	2D	9
L42	B	91	50	2D	9
L43	A	76	61	3E	9
L44	A	29	95	3B	7
L45	B	20	48	9A	8
L46	B	13	66	10B	8
L47	B	20	66	10A	8
L48	B	30	111	5B	7
L49	B	33	97	4C	7
L50	A	237	43	6C	12
L51	A	250	27	7E	12
L52	B	153	91	3B	11
L53	B	142	10	11B	12
L54	B	144	101	2B	11
L55	B	166	94	4B	11
L56	A	246	135	3B	4
L57	A	250	135	3D	4
L58	B	91	75	2D	9
L59	B	99	73	1D	9
L60	B	84	85	2D	9
L62	B	60	130	7E	10
L63	B	61	128	7E	10
L64	B	104	137	2B	13
L65	B	124	133	3C	13
L66	B	117	114	6C	13
L67	B	104	122	4D	13
L68	B	101	117	5D	13
L69	B	75	130	8D	10
L70	A	183	112	5A	13
L71	B	201	96	8C	16
L72	A	121	97	2F	13
L73	B	121	102	2F	13
L74	A	121	110	2F	13
L75	A	134	135	3A	13
L76	B	193	94	7D	16
L77	B	204	81	9C	16
L78	A	251	102	5D	14
L79	B	218	104	8D	14
L81	A	203	86	9D	16
L82	A	208	79	10D	16

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Part	Side	X	Y	Sqr	Pg
L83	A	207	67	11D	16
L84	A	204	104	1E	16
L85	B	209	103	2E	16
L86	A	116	97	2E	13
L87	A	218	104	2E	16
L88	A	204	107	1F	16
L89	B	209	108	2F	16
L90	A	218	107	2F	16
L91	B	255	54	8B	14
L92	B	260	122	6E	14
L94	B	266	88	2B	14
L96	B	210	61	4A	14
L97	B	116	102	2E	13
L98	A	212	59	5A	14
L99	B	215	60	5A	14
L100	B	218	64	5A	14
L101	B	246	65	7B	14
L102	B	274	71	10B	14
L103	A	267	81	12B	14
L104	A	262	91	3E	14
L105	A	258	107	3D	14
L106	A	249	91	1E	14
L107	B	246	97	6D	14
L108	A	116	110	2E	13
L109	A	110	97	2E	13
L110	B	239	93	6E	14
L111	B	228	100	8D	14
L112	B	228	106	8D	14
L113	B	271	32	4D	12
L114	A	138	93	3D	11
L115	A	104	141	2B	13
L116	B	131	130	3B	13
L117	A	168	114	4A	13
L118	B	111	133	4D	13
L119	A	161	64	3A	5
L120	A	161	41	3D	5
L121	A	161	37	3D	5
L122	A	161	34	3E	5
L123	B	39	39	11D	8
L124	A	177	39	11A	5
L125	A	161	60	3B	5
L126	A	161	57	3B	5
L127	A	161	53	3B	5
L128	A	104	41	3D	5
L129	A	100	41	3C	5
L130	A	161	49	3C	5
L131	A	161	45	3C	5
L132	A	200	25	7D	5
L133	B	91	95	3C	7
L134	B	110	102	2E	13
L135	A	110	110	2E	13
L136	B	187	69	6D	16
L137	B	201	78	10C	16
L138	A	187	76	7D	16
L139	A	184	80	9B	16
L140	B	182	77	9B	16
L141	B	82	117	5B	10
L142	B	48	142	4C	10
L143	B	130	93	2D	11
L144	B	91	110	2D	10
L145	A	130	101	2D	11
L146	A	105	110	2E	10
L147	A	105	97	1E	10
L148	B	105	102	2E	10
L149	A	64	140	6D	10
L150	A	163	72	7E	5
L151	A	104	90	7E	5
L152	A	201	100	8E	16
L154	A	53	123	8A	10
L155	A	176	73	10B	16
L156	B	263	67	9A	14
L157	B	117	122	6C	13
L158	A	259	55	8C	14
L159	A	253	69	9A	14
L160	A	119	60	1E	6
L163	B	183	95	4C	11
L165	B	269	112	4C	14
L166	B	271	96	5C	14
L167	B	271	90	5C	14
L168	A	271	45	5C	14
L169	B	236	107	8E	14
L170	B	218	110	9E	14
L171	B	222	103	8E	14
L172	B	143	118	7C	13
L173	A	271	78	10A	14
L174	A	256	75	10B	14
L175	B	134	134	3D	13
L176	B	118	133	3C	13
L177	B	150	116	9C	13
L178	B	143	111	8B	13
L179	A	126	97	5B	13
L180	B	126	102	6B	13
L181	A	126	110	7B	13
L182	B	165	109	10C	13
L183	B	173	113	11C	13
L184	B	205	97	7D	16
L185	A	177	10	6E	5
L186	A	126	86	2E	11
L187	B	130	88	2E	11
L188	A	138	88	3E	11
L189	B	13	48	9B	8
N1	B	29	122	7B	7
N2-A	B	60	121	6A	10
N2-B				8B	10
N3	B	50	110	3B	10
N4	B	48	122	3C	10
N5-A	A	62	34	5D	8
N5-B				5E	8
N5-C				6E	8
N6-A	B	18	77	11B	8
N6-B				11E	8
N7-A	B	237	76	6C	15
N7-B				3E	15
N8-A	A	97	119	3E	13
N8-B				3E	13
N8-C				5E	13
N8-D				5F	13
N8-E				6E	13
N9-A	B	252	24	7D	12
N9-B				3B	12
N9-C				6E	12
N10	B	115	89	7C	3
N11	B	79	109	5B	10
N12-A	B	136	36	5E	3
N12-B				7E	3
N13	B	264	11	7B	12
N14-A	B	238	10	9B	12
N14-B				10B	12
N14-C				6E	12
N15	B	66	133	8E	10
N16-A	A	132	55	6E	6
N16-B				6D	6
N16-C				6D	6
N16-D				3D	6
N16-E				1E	6
N17-A	B	271	25	5A	12
N17-B				6E	12
N18	B	160	88	3B	11
N19	B	96	140	2B	13
N20	B	109	117	5C	13
N21-A	A	140	123	3A	13
N21-B				4B	13
N22	B	254	36	5D	12
N23-A	A	230	93	3B	15
N23-B				2E	15
N24-A	B	237	85	5C	15
N24-B				3E	15
N25	B	157	112	9C	13
N26-A	A	189	83	5A	16
N26-B				5B	16
N26-C				7B	16
N26-D				7B	16
N26-E				4E	16
N27-A	A	205	18	7D	6
N27-B				7D	6
N27-C				2D	6
N27-D				11D	5
N27-E				1E	6
N28-A	B	124	72	3C	6
N28-B				2E	6
N29-A	B	105	90	5D	5
N29-B				5E	5
N29-C				7F	5
N30-A	B	169	65	11A	5
N30-B				11B	5

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Part	Side	X	Y	Sqr	Pg
N30-C				11C	5
N30-D				11B	5
N30-E				7F	5
N31-A	B	115	80	3B	6
N31-B				2E	6
P2	B	127	42	6E	3
R1	B	104	28	3A	3
R2	B	118	28	3B	3
R3	B	44	116	2B	10
R4	B	46	114	2B	10
R5	B	124	36	3C	3
R6	B	143	33	3D	3
R7	A	35	14	2E	7
R8	A	35	17	2D	7
R9	A	27	14	3D	7
R10	B	73	99	1A	8
R11	A	12	83	11A	8
R12	B	36	111	4B	7
R13	B	36	100	4C	7
R14	B	26	102	5B	7
R15	B	17	97	6C	7
R16	B	14	99	6B	7
R17	B	22	116	7B	7
R18	B	21	119	7B	7
R19	B	22	124	7B	7
R20	A	35	116	8B	7
R21	A	39	113	8A	7
R22	A	83	137	6D	10
R23	A	66	136	6D	10
R24	A	57	117	4D	10
R25	A	80	132	5C	10
R26	A	78	127	4E	10
R27	A	78	124	4E	10
R28	A	64	114	3E	10
R29	A	74	112	3F	10
R30	A	67	133	5D	10
R31	A	67	131	4D	10
R32	B	70	113	7A	10
R33	B	53	142	6C	10
R34	B	59	142	6C	10
R35	B	57	142	6C	10
R36	B	68	102	1B	8
R37	B	52	101	2B	8
R38	A	55	61	2C	8
R39	A	57	61	2C	8
R40	A	27	11	3D	7
R41	A	60	61	2C	8
R42	A	62	61	2C	8
R43	A	65	61	2D	8
R44	A	72	61	2D	8
R45	A	70	61	2D	8
R46	A	67	61	2E	8
R47	A	74	81	2B	8
R48	A	74	79	2B	8
R49	A	74	76	3B	8
R50	A	74	74	3B	8
R51	B	34	15	4D	7
R52	A	74	71	3B	8
R53	A	74	84	3B	8
R54	A	74	86	3B	8
R55	A	74	89	3B	8
R56	A	81	81	2E	8
R57	A	81	79	2E	8
R58	A	81	76	3E	8
R59	A	81	74	3E	8
R60	A	81	71	3E	8
R61	A	81	84	3E	8
R62	B	15	20	4E	7
R63	A	81	86	3E	8
R64	A	81	89	3E	8
R65	B	50	81	4B	8
R66	B	50	79	4B	8
R67	A	61	80	4B	8
R68	A	58	74	4B	8
R69	B	54	84	3B	8
R70	B	48	84	4B	8
R71	B	46	84	4B	8
R72	B	68	86	5C	8
R73	B	20	16	5E	7
R74	B	68	89	5C	8
R75	A	54	86	5C	8
R76	B	57	89	5C	8
R77	A	72	45	6D	8
R78	A	58	44	6D	8
R79	A	83	35	6E	8
R80	A	74	37	4D	8
R81	A	32	34	7A	8
R82	A	32	31	7A	8
R83	A	34	64	7C	8
R84	A	35	31	7D	7
R85	A	30	45	7C	8
R86	A	39	59	8D	8
R87	B	22	28	8A	8
R88	B	15	40	8B	8
R89	B	30	49	8D	8
R90	B	26	46	8C	8
R91	B	20	43	9A	8
R92	B	18	43	9B	8
R93	B	30	51	9C	8
R94	B	30	44	9C	8
R95	A	51	65	3F	9
R96	B	31	28	9D	8
R97	B	28	62	10D	8
R98	B	27	72	10A	8
R99	B	14	74	10B	8
R100	A	13	66	10B	8
R101	A	30	78	10C	8
R102	A	26	81	10C	8
R103	A	34	69	11D	8
R104	A	49	86	4C	9
R105	A	50	57	4C	9
R106	B	48	67	3C	9
R107	B	35	7	6E	7
R108	A	58	27	5A	9
R109	A	61	27	5B	9
R110	A	74	46	5D	9
R111	A	75	44	5D	9
R112	A	81	68	2C	9
R113	A	98	59	1C	9
R114	A	97	55	1D	9
R115	A	79	56	2D	9
R116	A	83	42	2D	9
R117	A	97	50	1D	9
R118	A	59	83	5D	9
R119	B	16	83	11A	8
R120	A	29	72	10C	8
R121	B	145	37	5E	3
R122	A	27	100	11C	8
R123	B	19	72	11B	8
R124	A	21	63	10B	8
R125	A	266	25	5B	12
R126	A	92	130	3F	13
R127	A	253	88	2C	14
R128	B	197	123	4B	16
R129	A	265	42	2F	12
R130	B	272	39	3E	12
R131	B	265	38	3D	12
R132	B	196	118	5B	16
R133	A	195	124	5B	16
R134	A	199	127	5B	16
R135	B	191	121	4A	16
R137	A	192	124	4B	16
R138	A	186	83	6A	16
R139	B	265	75	10B	14
R140	B	135	30	2E	3
R142	A	241	46	5D	12
R143	A	257	41	6D	12
R144	B	85	20	11B	2
R145	A	234	37	6C	12
R146	B	247	24	6D	12
R147	B	101	39	2A	3
R148	B	250	22	7D	12
R149	B	263	78	10B	14
R150	A	251	58	8B	14
R151	A	238	22	7C	12
R152	A	241	22	7C	12
R153	A	238	17	7D	12
R154	A	234	19	7C	12
R155	B	264	30	4E	12
R156	A	246	64	8B	14
R157	A	249	66	8A	14
R158	A	263	18	4B	12
R159	B	252	68	9B	14
R160	B	123	43	5E	3
R161	A	122	86	7C	3

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R163	B	273	29	4E	12	R218	B	123	141	2C	13	R274	A	264	116	3D	14
R164	A	261	29	4B	12	R219	B	110	123	4E	13	R275	B	116	142	2C	13
R165	A	271	25	5B	12	R220	B	160	124	2D	13	R276	A	264	113	4D	14
R166	B	273	24	5A	12	R221	B	117	126	4E	13	R277	A	259	93	1F	14
R167	B	263	18	4A	12	R222	A	112	126	4E	13	R278	A	257	97	1E	14
R168	A	259	13	7A	12	R223	B	204	103	7D	16	R279	A	271	119	3C	14
R169	B	248	32	10C	12	R224	A	130	110	7D	13	R280	A	269	106	4C	14
R170	A	271	14	7B	12	R225	B	198	104	4C	16	R281	A	271	110	4C	14
R171	B	268	55	9C	14	R226	B	184	124	2D	16	R282	B	250	105	5D	14
R172	B	245	14	9B	12	R227	B	189	122	3D	16	R283	B	256	99	5D	14
R173	B	123	28	2B	3	R228	B	195	100	7D	16	R284	A	220	114	9D	14
R174	B	272	127	4F	14	R229	A	189	97	7D	16	R285	B	250	102	5E	14
R175	B	239	23	9C	12	R230	A	205	93	8E	16	R286	A	143	136	3A	13
R176	B	234	32	9C	12	R231	B	157	124	2D	13	R287	B	258	105	5D	14
R177	B	250	56	8B	14	R232	B	197	86	9C	16	R288	B	221	95	7E	14
R178	B	237	23	9C	12	R233	B	186	83	9C	16	R289	B	227	97	8E	14
R179	B	250	30	9D	12	R234	B	200	90	9D	16	R290	B	218	98	8D	14
R180	B	241	23	10D	12	R235	B	192	84	9D	16	R291	B	266	91	2C	14
R181	B	261	125	4F	14	R236	A	203	115	6C	16	R292	B	234	97	8E	14
R182	B	252	124	5F	14	R237	A	203	112	6C	16	R293	B	236	110	9D	14
R183	A	269	97	3E	14	R238	A	197	112	6C	16	R294	B	226	117	9D	14
R184	B	255	124	5F	14	R239	A	125	117	6C	13	R295	B	236	115	9E	14
R185	B	127	28	2C	3	R240	A	206	82	9D	16	R296	B	275	121	4E	14
R186	B	133	30	2D	3	R241	A	204	91	9E	16	R297	B	206	90	8C	16
R187	B	51	136	3C	10	R242	A	107	137	2B	13	R298	B	275	116	4E	14
R188	B	51	140	4C	10	R243	B	201	66	3B	14	R299	B	236	112	9E	14
R189	A	84	115	5B	10	R244	B	200	63	3B	14	R300	B	263	93	2B	14
R190	A	158	95	4B	11	R245	B	205	57	3A	14	R301	B	255	86	2C	14
R191	A	151	95	4B	11	R246	A	204	68	3A	14	R302	B	229	120	10D	14
R192	A	74	35	6E	8	R247	A	197	64	3B	14	R303	B	229	80	7C	15
R193	A	81	32	6E	8	R248	B	222	65	6B	14	R304	A	226	88	4C	15
R194	B	268	36	4D	12	R249	B	226	61	6B	14	R305	B	228	85	4C	15
R195	B	268	16	5B	12	R250	A	225	64	6A	14	R306	B	240	83	6C	15
R196	A	70	138	2C	10	R251	A	222	64	6A	14	R307	A	230	100	2E	15
R197	A	238	7	8B	12	R252	A	232	62	6B	14	R308	B	151	67	4B	5
R198	B	153	85	2B	11	R253	B	112	140	2C	13	R309	B	159	76	11B	5
R199	B	55	132	6E	10	R255	A	241	66	7A	14	R310	A	205	51	7D	5
R200	B	162	124	2D	13	R256	B	237	66	7C	14	R311	B	150	13	4F	5
R201	A	162	115	4A	13	R257	B	249	67	7A	14	R312	B	164	76	11B	5
R202	B	115	68	6B	5	R258	B	257	71	9B	14	R313	A	215	19	11D	5
R203	B	112	68	6B	5	R259	B	271	70	10B	14	R314	B	155	67	11B	5
R204	A	215	82	3D	15	R260	A	264	67	10C	14	R315	B	197	9	11D	5
R205	A	215	84	3D	15	R261	A	268	69	10B	14	R316	B	160	68	11B	5
R206	A	221	76	3D	15	R262	B	260	76	10B	14	R317	A	143	65	5D	6
R207	A	225	104	4A	15	R263	A	271	69	10C	14	R318	A	143	58	5D	6
R208	A	223	110	4B	15	R264	B	110	142	2C	13	R319	A	121	48	4B	5
R209	A	227	91	3B	15	R265	B	272	77	10C	14	R320	A	119	48	4B	5
R210	A	95	134	3E	13	R266	B	265	81	11B	14	R321	A	128	50	4C	5
R211	A	115	120	5E	13	R267	B	254	81	11B	14	R322	B	110	48	6B	5
R212	B	96	130	4C	13	R268	B	249	78	11A	14	R323	A	109	53	6B	5
R213	B	98	134	4C	13	R269	B	270	82	11C	14	R324	A	108	68	5F	5
R214	B	93	128	4C	13	R270	A	263	77	12C	14	R325	A	122	65	7A	5
R215	A	124	123	6C	13	R271	A	265	88	12B	14	R326	B	173	68	11A	5
R216	A	143	130	3A	13	R272	B	252	91	2D	14	R327	A	75	97	3C	7
R217	B	91	123	5C	13	R273	B	255	94	2C	14	R328	A	15	107	5C	7

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R329	A	34	109	5C	7	R384	B	148	49	2E	6	R441	A	154	121	8E	13
R330	A	19	49	11E	8	R385	A	219	24	1E	6	R442	A	166	112	10C	13
R331	B	104	97	4D	5	R386	A	130	83	2D	6	R443	A	163	109	10B	13
R332	A	100	94	4D	5	R387	B	57	133	6E	10	R444	B	175	113	11C	13
R333	B	97	93	4E	5	R388	B	54	127	6E	10	R445	A	107	126	5E	13
R334	A	92	80	4F	5	R389	B	49	15	1E	7	R446	A	98	134	5E	13
R335	A	102	75	6E	5	R390	B	93	44	4F	8	R447	A	101	134	5F	13
R336	B	103	88	5D	5	R391	B	111	95	2B	4	R448	A	107	121	5F	13
R337	A	104	86	5D	5	R392	B	109	95	2B	4	R449	A	190	93	6B	16
R338	A	197	104	7C	16	R393	B	237	32	10C	12	R450	A	186	91	6B	16
R339	B	110	68	5B	5	R395	B	233	28	9D	12	R451	A	197	88	7B	16
R340	B	107	68	5B	5	R396	B	247	30	10D	12	R452	A	197	76	7B	16
R341	A	196	29	10D	5	R397	A	258	32	5E	12	R453	A	197	86	7B	16
R342	A	204	88	9E	16	R398	A	241	36	4D	12	R454	B	104	128	4D	13
R343	B	275	119	4E	14	R399	A	248	43	5D	12	R455	A	223	104	3B	15
R344	B	266	28	4E	12	R400	B	16	12	4E	7	R456	B	235	83	6C	15
R345	A	110	141	2A	13	R401	A	274	10	6A	12	R457	B	153	20	2D	5
R346	A	271	103	4C	14	R403	B	244	21	7D	12	R458	B	164	21	2D	5
R347	B	266	40	3E	12	R404	A	274	8	6A	12	R459	B	164	23	2E	5
R348	A	255	21	3B	12	R405	B	181	93	3C	11	R460	B	132	46	6E	6
R349	B	242	11	9A	12	R406	A	265	104	4B	14	R461	B	135	44	5E	6
R350	A	237	13	10B	12	R407	A	215	60	5B	14	R462	B	138	46	6E	6
R351	B	46	117	2B	10	R408	B	261	128	5E	14	R463	B	136	44	5E	6
R352	B	63	111	3B	10	R409	B	231	100	8D	14	R464	A	92	83	4E	5
R353	B	57	113	3A	10	R410	B	231	106	8D	14	R465	B	208	9	11C	5
R354	A	48	110	3A	10	R411	A	238	127	7E	14	R466	B	206	9	11C	5
R355	B	65	111	4B	10	R412	B	263	64	8A	14	R467	A	210	11	11D	5
R356	A	48	130	3B	10	R413	B	256	57	8B	14	R468	B	190	9	11D	5
R357	B	48	136	3C	10	R414	A	252	72	10A	14	R469	A	195	7	11D	5
R358	B	52	143	4C	10	R415	A	246	76	10A	14	R471	B	160	70	11C	5
R359	B	175	93	3D	11	R416	B	268	73	10C	14	R472	B	155	70	11C	5
R360	A	272	93	3F	14	R417	B	134	128	3E	13	R473	B	148	54	3D	6
R361	B	262	99	1C	14	R418	B	125	126	3D	13	R474	B	148	57	2D	6
R362	A	221	39	7B	5	R419	B	124	130	3D	13	R475	B	148	61	2D	6
R363	B	62	142	6C	10	R420	A	141	141	3B	13	R477	A	121	76	3D	6
R364	B	53	137	6C	10	R421	A	145	138	3A	13	R478	B	118	69	2C	6
R365	B	55	128	6E	10	R422	A	274	61	8A	14	R479	B	118	67	2C	6
R366	B	63	129	7E	10	R423	A	274	64	8A	14	R480	A	126	79	3C	6
R367	A	71	132	8D	10	R424	B	269	65	9A	14	R481	A	119	82	3C	6
R368	B	69	124	5A	10	R425	B	271	65	9A	14	R483	A	112	75	2B	6
R369	B	75	127	5A	10	R426	B	274	68	9A	14	R484	A	112	72	2B	6
R370	B	70	109	7A	10	R427	A	242	61	8C	14	R485	A	106	75	2B	6
R371	B	73	110	8A	10	R428	A	256	59	8C	14	R487	A	112	80	3B	6
R372	B	176	70	11A	5	R429	B	262	58	8C	14	R488	A	107	83	3B	6
R373	B	187	45	11C	5	R430	B	270	55	9C	14	R489	B	148	70	5A	6
R374	B	163	9	6D	5	R431	A	269	56	9C	14	R490	B	150	70	5A	6
R375	A	219	13	12D	5	R432	A	273	53	9C	14	R491	B	130	78	5B	6
R376	B	171	10	5E	5	R433	A	140	117	7D	13	R492	B	132	76	5B	6
R377	A	218	46	7A	5	R434	A	148	109	8D	13	R493	B	127	73	5B	6
R378	B	135	46	6D	6	R435	A	148	117	8D	13	R494	B	153	72	5B	6
R379	A	101	86	6D	5	R436	B	140	114	7C	13	R495	A	146	75	6B	6
R380	B	120	90	6C	3	R437	B	150	110	9C	13	R496	B	135	74	6B	6
R381	B	117	95	6D	3	R438	A	145	117	9D	13	R497	A	144	75	6A	6
R382	A	112	89	7C	3	R439	A	128	117	7B	13	R498	B	144	76	6A	6
R383	A	116	86	7C	3	R440	A	132	119	8B	13	R499	A	149	75	6B	6

ROHDE & SCHWARZ	ÄI	Datum / Date	XY-Liste für / XY-list for	Sach-Nummer / Stock-Nr	Blatt / Page
	02	21.01.95	EE ANALOG_DOWN_CONVERTER	1051.2607.01 XY	8+

Part	Side	X	Y	Sqr	Pg
R500	B	149	76	6B	6
R501	A	141	75	6B	6
R502	B	141	76	6B	6
R503	A	274	78	10A	14
R504	A	216	76	3C	15
R505	A	218	76	3C	15
R506	A	182	94	7C	16
R507	B	174	56	9D	5
R508	B	174	54	9D	5
R509	A	175	61	9E	5
R510	A	175	58	9E	5
R511	B	146	76	6C	6
R512	A	138	75	6C	6
R513	B	138	76	6C	6
R514	B	152	70	4A	6
R515	A	208	51	10D	5
R516	A	37	75	10C	8
R517	B	36	78	10C	8
R518	B	26	83	12B	8
R519	B	33	75	12B	8
R520	B	31	75	11B	8
R521	A	73	99	11A	8
R522	B	45	62	7D	8
R523	B	81	87	6A	8
T1	B	147	84	2B	11
U1	B	184	98	5D	16
U2	B	250	118	4D	14
U3-A	B	217	78	4C	15
U3-B				2E	15
U4-A	A	236	27	9C	12
U4-B				9D	12
U4-C				7E	12
V1	B	99	31	3A	3
V2	B	115	31	3B	3
V3	A	65	119	3D	10
V4	A	76	137	6D	10
V5	B	128	34	3C	3
V6	B	137	33	3D	3
V7	A	33	10	2E	7
V8	A	36	29	7E	7
V9	B	31	99	5B	7
V10	A	72	28	5E	8
V11	B	34	83	12B	8
V12	B	27	81	11B	8
V13	A	32	81	11C	8
V14	A	17	67	10B	8
V15	A	30	83	11C	8
V16	A	46	69	4C	9
V17	B	51	71	3C	9
V18	B	30	97	5C	7
V19	B	23	111	5B	7
V20	B	18	102	6C	7
V21	B	62	86	5C	8
V22	B	64	89	5C	8
V23	A	61	42	5D	8
V24	A	264	25	5B	12
V25	B	101	120	5C	13
V26	A	203	117	6C	16
V27	A	275	38	3D	12
V28	B	263	24	3A	12
V29	A	269	30	4B	12
V30	A	261	23	4B	12
V31	A	250	21	3B	12
V32	A	206	114	6C	16
V33	B	257	87	2C	14
V34	B	252	60	8B	14
V35-A	B	153	88	2B	11
V35-B				2B	11
V36	B	94	118	5C	13
V37	B	261	71	9B	14
V38	A	271	89	12B	14
V39	B	263	82	11B	14
V40	B	268	59	8A	14
V41	B	257	93	1C	14
V42	B	263	112	3D	14
V43	A	254	97	1E	14
V44	A	271	112	4C	14
V45	B	253	105	5D	14
V46	B	225	95	7E	14
V47	B	102	131	4C	13
V48	B	234	115	9D	14
V49	A	262	62	8C	14
V50	B	195	97	7C	16
V51	B	202	90	8C	16
V52	A	208	91	9D	16
V53-A	B	194	123	3B	16
V53-B				3B	16
V54	B	203	63	3B	14
V55	B	227	64	6B	14
V56	B	240	63	7B	14
V57	A	14	102	5C	7
V58	A	12	51	11E	8
V59	A	236	103	2E	15
V60	A	84	135	4C	10
V61	A	82	130	4E	10
V62	A	82	122	4E	10
V63	A	68	112	3F	10
V64	A	59	131	5D	10
V65	A	63	127	6D	10
V66	A	62	113	4F	10
V67	A	267	35	4E	12
V68	A	66	142	3C	10
V69	A	267	97	2E	14
V70	B	262	60	8C	14
V71	B	256	66	9B	14
V72	B	271	13	6B	12
V73	A	250	69	10A	14
V74	B	270	76	10C	14
V75	A	271	58	9C	14
V76	B	146	114	8C	13
V77	A	139	109	7D	13
V78	A	152	109	8E	13
V79	B	119	82	3C	6
V80	B	107	87	3A	6
V81	B	31	77	11C	8
X3	B	251	110	5D	14
Z1	B	238	56	6A	14
Z3	B	84	100	11A	8

ROHDE & SCHWARZ	ÄI	Datum / Date	XY-Liste für / XY-list for	Sach-Nummer / Stock-Nr	Blatt / Page
	02	21.01.95	EE ANALOG_DOWN_CONVERTER	1051.2607.01 XY	9-

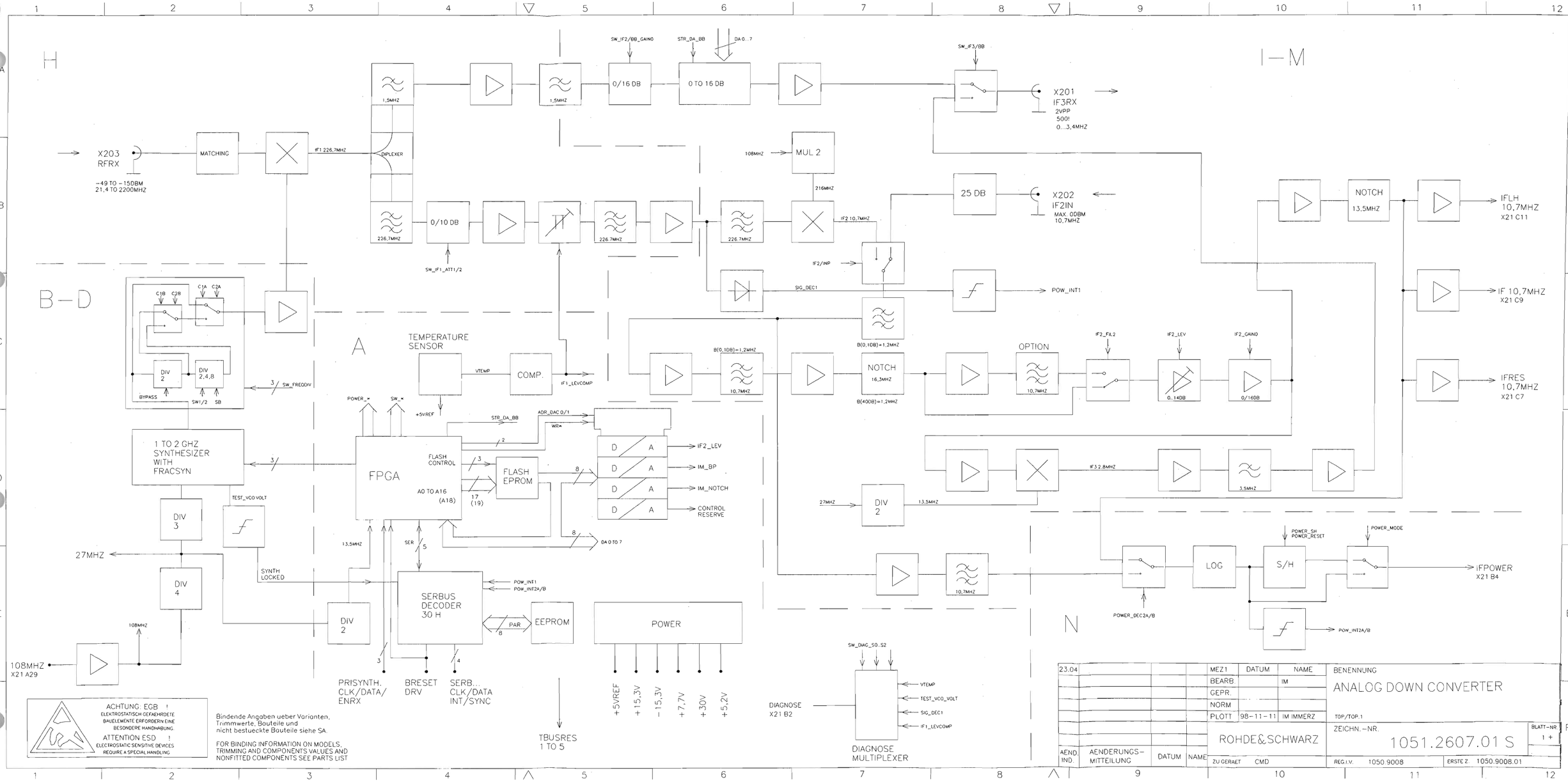
ROHDE&SCHWARZ

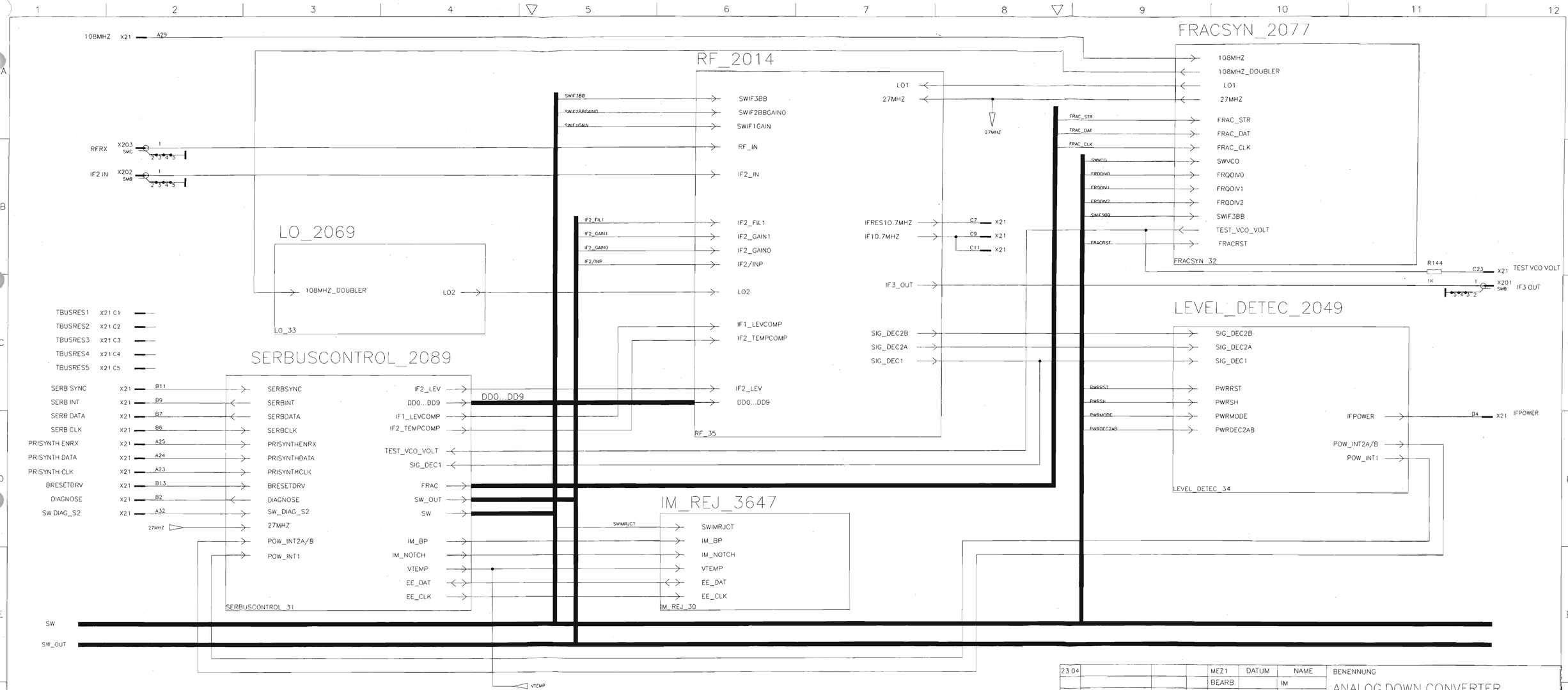
Stromläufe
Bestückungspläne

Circuit diagrams
Component plans

Schémas de circuit
Plans des composants

095.1000 Bl. 4


H
I–M
B–D
A
N
X203
RFRX
–49 TO –15DBM
21,4 TO 2200MHZ
MATCHING
IF1 226,7MHZ
DIPLEXER
1,5MHZ
0/16 DB
SW_IF2/BB_GAIN0
STR_DA_BB
DA 0...7
0 TO 16 DB
SW_IF3/BB
X201
IF3RX
2VPP
500!
0...3,4MHZ
226,7MHZ
0/10 DB
SW_IF1_ATT1/2
108MHZ
MUL 2
216MHZ
IF2 10,7MHZ
25 DB
X202
IF2IN
MAX. 0DBM
10,7MHZ
IF2/INP
SIG_DEC1
POW_INT1
B(0,10B)=1,2MHZ
NOTCH
13,5MHZ
IFLH
10,7MHZ
X21 C11
IF 10,7MHZ
X21 C9
IFRES
10,7MHZ
X21 C7
C1B C2B C1A C2A
DIV 2
DIV 2,4,8
BYPASS
SW1/2
SB
SW_FREQDIV
TEMPERATURE SENSOR
VTEMP
COMP.
IF1_LEVCOMP
NOTCH
16,3MHZ
B(40DB)=1,2MHZ
OPTION
IF2_FIL2
IF2_LEV
IF2_GAIN
0..14DB
0/16DB
1 TO 2 GHZ SYNTHESIZER WITH FRACSYN
FPGA
FLASH CONTROL
A0 TO A16 (A18)
17 (19)
FLASH EPROM
+5VREF
STR_DA_BB
ADR_DAC 0/1
WR
D A
IF2_LEV
IM_BP
IM_NOTCH
CONTROL RESERVE
DA 0 TO 7
IF3 2,8MHZ
3,5MHZ
27MHZ
DIV 3
DIV 4
DIV 2
TEST_VCO VOLT
SYNTH LOCKED
13,5MHZ
SER
SERBUS DECODER 30 H
POW_INT1
POW_INT2A/B
PAR
EEPROM
POWER
108MHZ
X21 A29
PRISYNTH. CLK/DATA/ ENRX
BRESET DRV
SERB... CLK/DATA INT/SYNC
TBUSRES 1 TO 5
+5VREF
+15,3V
–15,3V
+7,7V
+30V
+5,2V
SW_DIAG_S0..S2
VTEMP
TEST_VCO_VOLT
SIG_DEC1
IF1_LEVCOMP
DIAGNOSE X21 B2
DIAGNOSE MULTIPLEXER
POWER_SH
POWER_RESET
POWER_MODE
LOG
S/H
IFPOWER
X21 B4
POWER_DEC2A/B
POW_INT2A/B
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
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
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR
23.04
MEZ1
DATUM
NAME
BEARB.
IM
GEPR.
NORM
PLOTT
98–11–11
IM IMMERZ
TOP/TOP.1
BENENNUNG
ANALOG DOWN CONVERTER
ROHDE&SCHWARZ
ZEICHN.–NR.
1051.2607.01 S
BLATT–NR
1 +
AEND. IND.
AENDERUNGS–MITTEILUNG
DATUM
NAME
ZU GERAET
CMD
REG.I.V.
1050.9008
ERSTE Z.
1050.9008.01



* NOT FITTED

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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

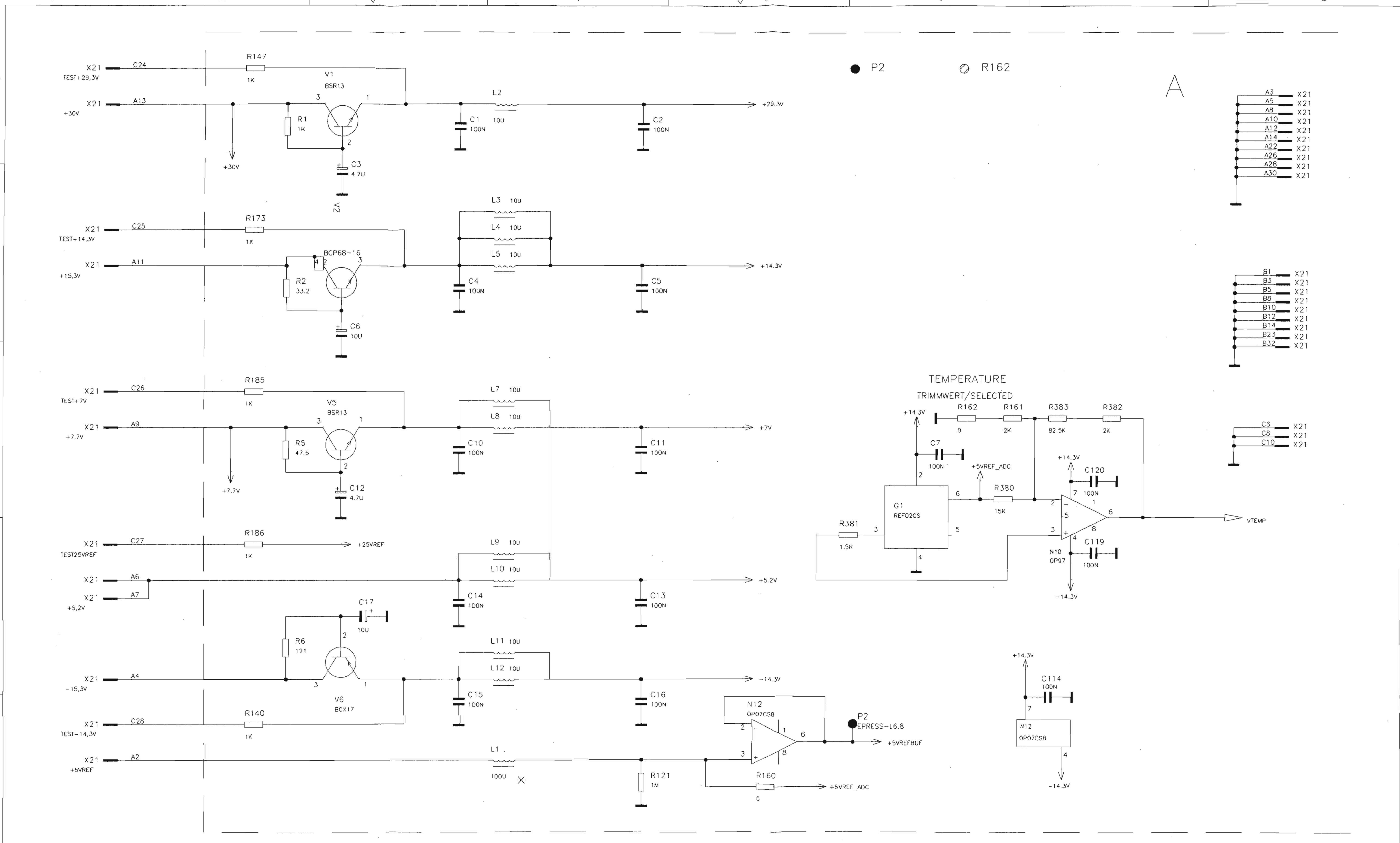
MEZ1	DATUM	NAME	BENENNUNG
BEARB.		IM	ANALOG DOWN CONVERTER
GEPR.			
NORM			
PLOTT	98-11-11	IM IMMERZ	TOP/TOP.2

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2607.01 S

BLATT-NR. 2 +

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01



P2
R162
A
X21 C24 TEST+29,3V
X21 A13 +30V
R147 1K
V1 BSR13
R1 1K
C3 4.7U
+30V
L2 10U
C1 100N
C2 100N
+29.3V
V2
X21 C25 TEST+14,3V
X21 A11 +15,3V
R173 1K
BCP68-16
R2 33.2
C6 10U
L3 10U
L4 10U
L5 10U
C4 100N
C5 100N
+14.3V
X21 C26 TEST+7V
X21 A9 +7,7V
R185 1K
V5 BSR13
R5 47.5
C12 4.7U
+7.7V
L7 10U
L8 10U
C10 100N
C11 100N
+7V
X21 C27 TEST25VREF
R186 1K
+25VREF
X21 A6
X21 A7 +5,2V
L9 10U
L10 10U
C14 100N
C13 100N
+5.2V
C17 10U
R6 121
V6 BCX17
X21 A4 -15,3V
L11 10U
L12 10U
C15 100N
C16 100N
-14.3V
X21 C28 TEST-14,3V
R140 1K
X21 A2 +5VREF
L1 100U
R121 1M
N12 OP07CS8
P2 EPRESS-L6.8
+5VREFBUF
R160 0
+5VREF_ADC
TEMPERATURE
TRIMMWERT/SELECTED
+14.3V
R162 0
R161 2K
R383 82.5K
R382 2K
C7 100N
+5VREF_ADC
G1 REF02CS
R380 15K
R381 1.5K
+14.3V
C120 100N
C119 100N
N10 OP97
-14.3V
VTEMP
+14.3V
C114 100N
N12 OP07CS8
-14.3V
A3 A5 A8 A10 A12 A14 A22 A26 A28 A30 X21
B1 B3 B5 B8 B10 B12 B14 B23 B32 X21
C6 C8 C10 X21

✳ NOT FITTED

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

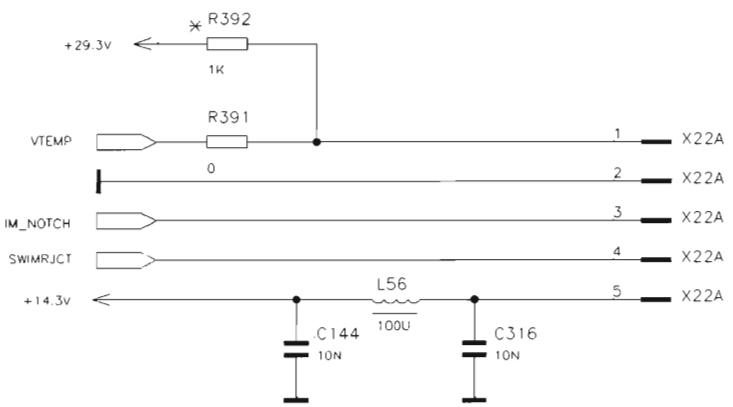
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

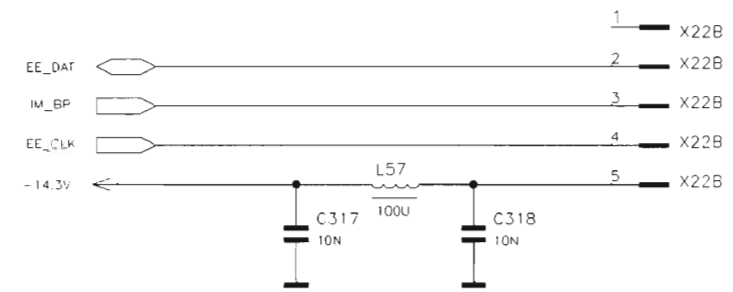
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.

ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

23.04				
MEZ1	DATUM	NAME	BENENNUNG	
BEARB.		IM	ANALOG DOWN CONVERTER	
GEPR.				
NORM				
PLOTT	98-11-11	IM IMMERZ	TOP/TOP.3	
ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2607.01 S	BLATT-NR. 3 +
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	
ZU GERAET	CMD	REG.I.V. 1050.9008	ERSTE Z. 1050.9008.01	

TO OPTION IMAGE REJECTION





* NOT FITTED

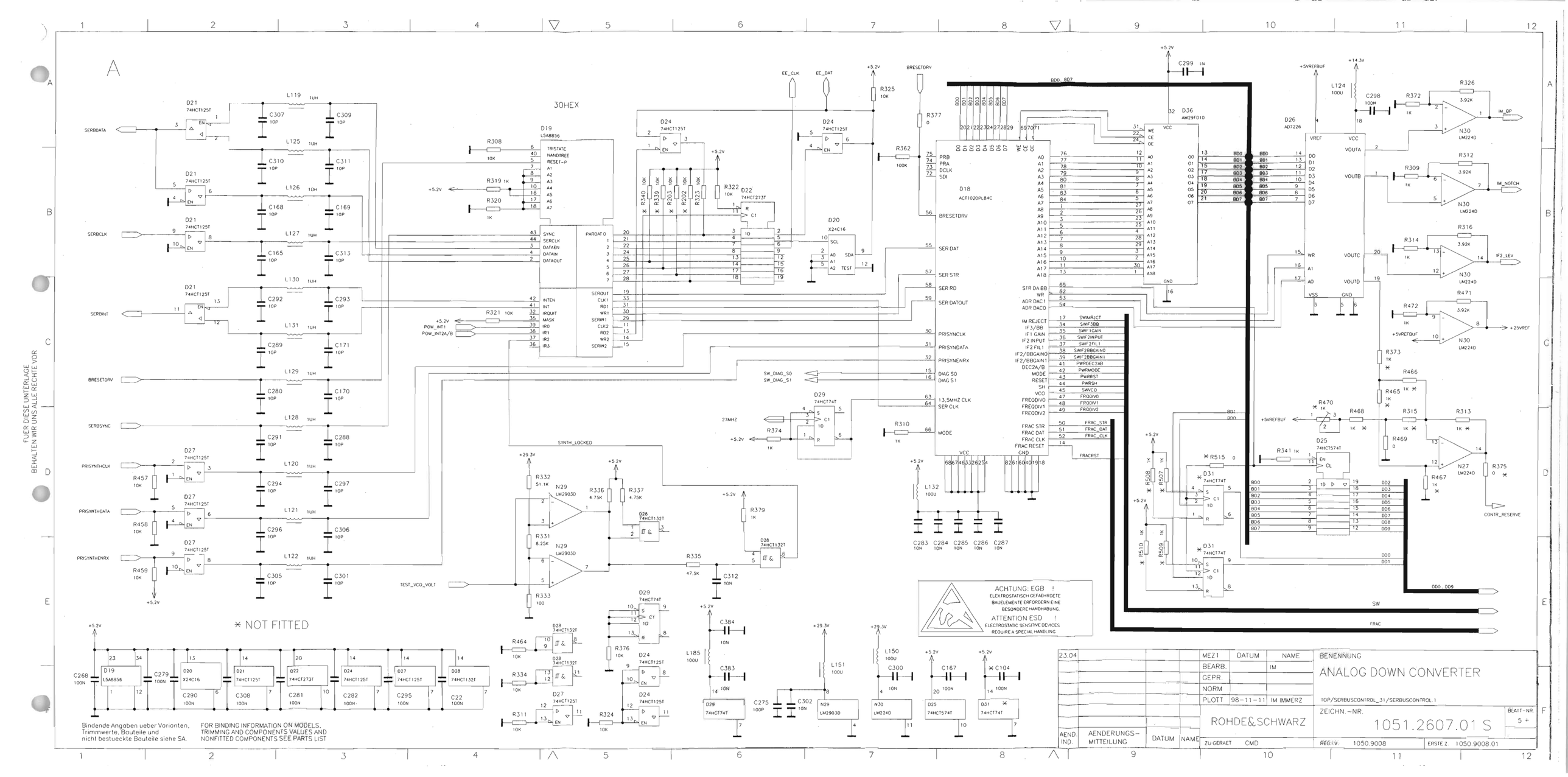
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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

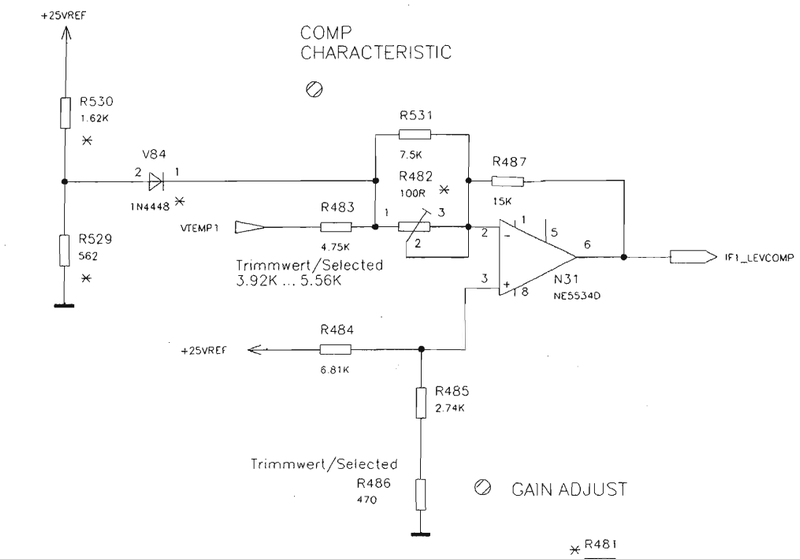
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

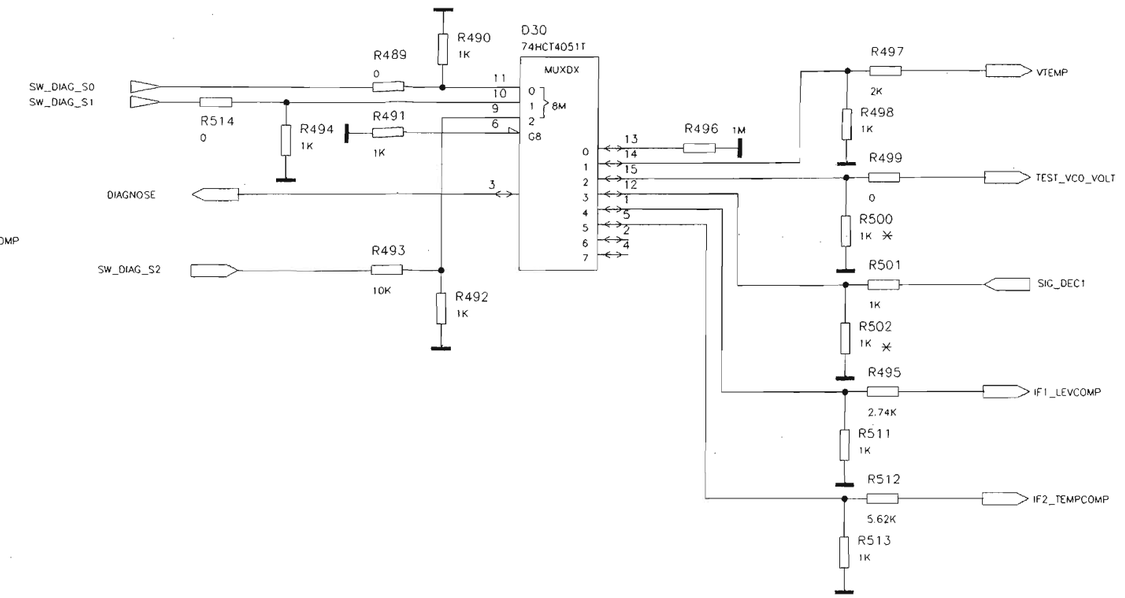
23.04				MEZ1	DATUM	NAME	BENENNUNG
				BEARB.		IM	ANALOG DOWN CONVERTER
				GEPR.			
				NORM			
				PLOTT	98-11-11	IM IMMERZ	TOP/IM_REJ_30/IM_REJ 1
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2607.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZUGERAET CMD		REG.-V 1050.9008	ERSTE Z 1050.9008.01

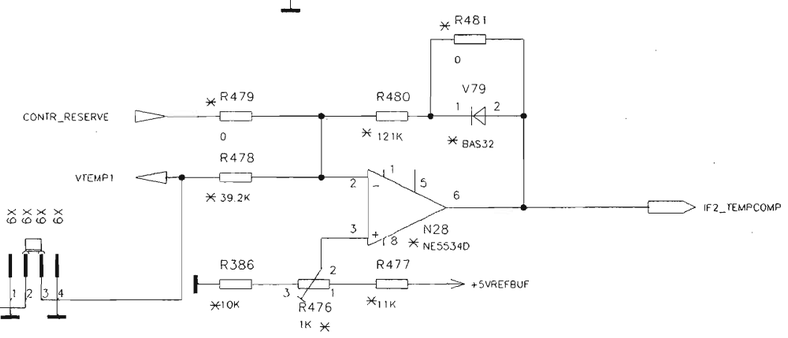
BLATT-NR. 4 +

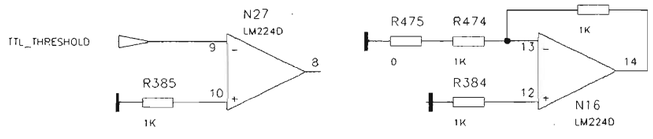

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR
30HEX
D19
L5A8856
D18
ACT1020PL84C
D36
AM29F010
D26
AD7226
D22
74HCT273T
D20
X24C16
SERBDATA
SERBCLK
SERBINT
BRESETDRV
SERBSYNC
PRISYNTHCLK
PRISYNTHDATA
PRISYNTHENRX
SYNTH_LOCKED
TEST_VCO_VOLT
EE_CLK
EE_DAT
BRESETDRV
SER DAT
SER STR
SER RD
SER DATOUT
PRISYNCLK
PRISYNDATA
PRISYNENRX
DIAG S0
DIAG S1
13,5MHZ CLK
SER CLK
MODE
27MHZ
POW_INT1
POW_INT2A/B
SW_DIAG_S0
SW_DIAG_S1
BD0..BD7
DD0..DD9
SW
FRAC
IM_BP
IM_NOTCH
IF2_LEV
+25VREF
CONTR_RESERVE
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING.
* NOT FITTED
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
23.04
MEZ1
DATUM
NAME
BEARB.
IM
GEPR.
NORM
PLOTT 98-11-11 IM IMMERZ
BENENNUNG
ANALOG DOWN CONVERTER
TOP/SERBUSCONTROL_31/SERBUSCONTROL.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2607.01 S
BLATT-NR.
5 +
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
ZU GERAET CMD
REG.V. 1050.9008
ERSTE Z. 1050.9008.01

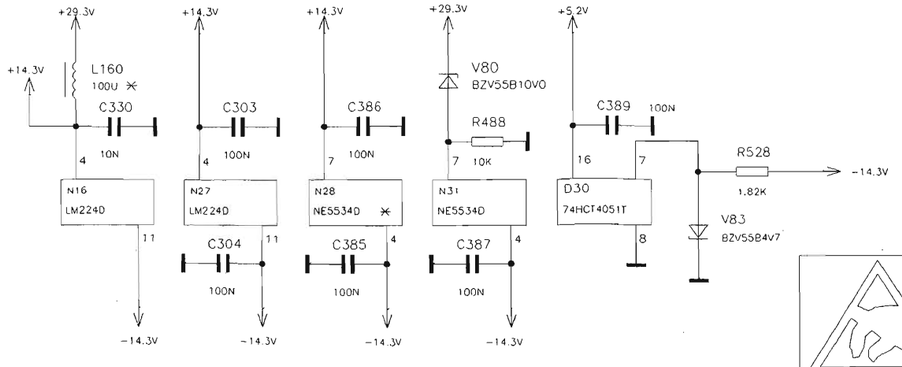
⊘ R482, R486











✳ NOT FITTED

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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	DATUM	NAME
MEZ1		
BEARB.		IM
GEPR.		
NORM		
PLOTT	98-11-11	IM IMMERZ

BENENNUNG
ANALOG DOWN CONVERTER

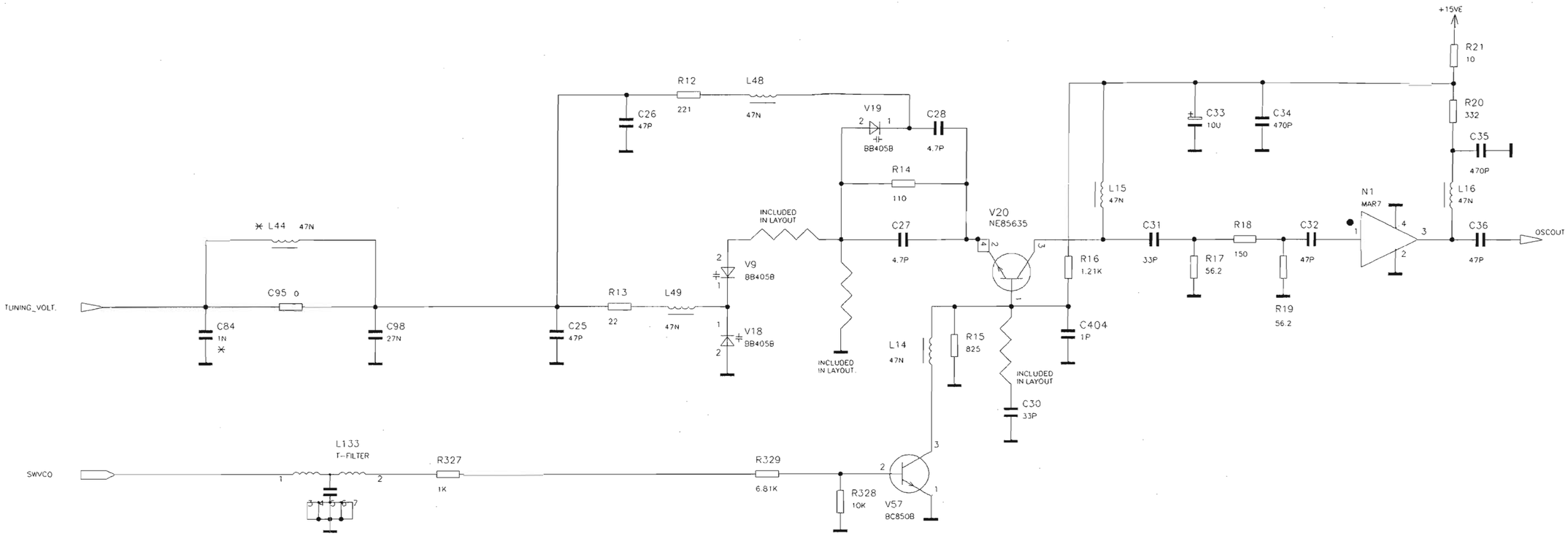
TOP/SERBUSCONTROL_31/SERBUSCONTROL.2

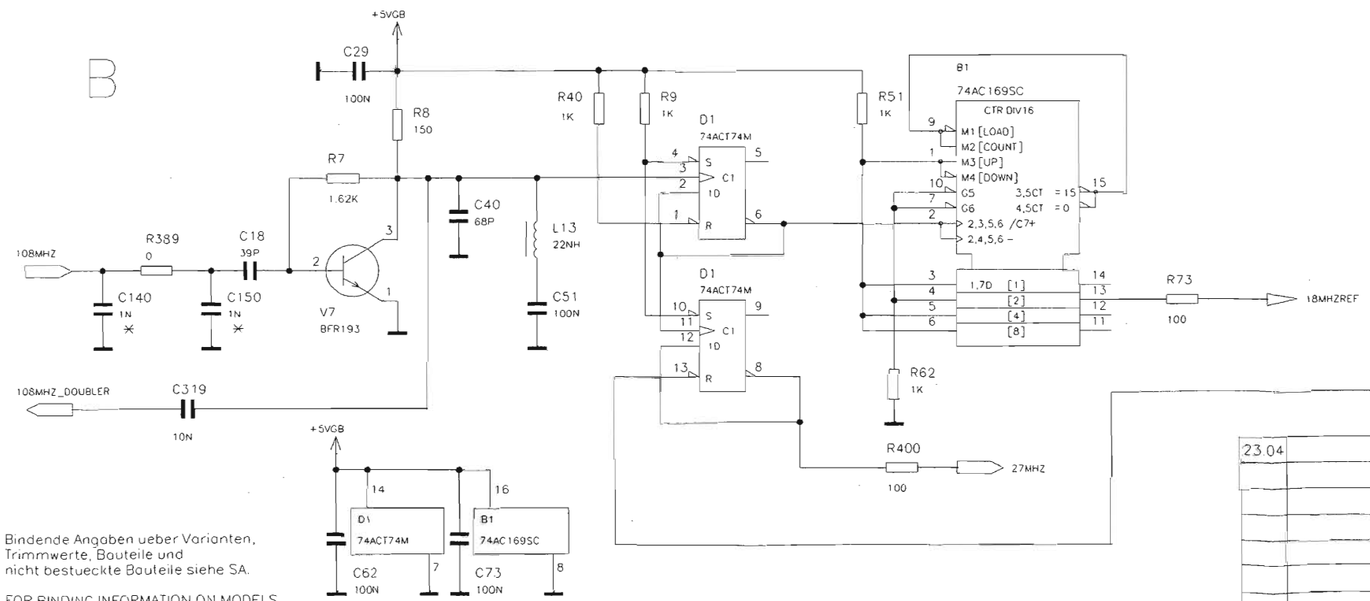
ROHDE&SCHWARZ

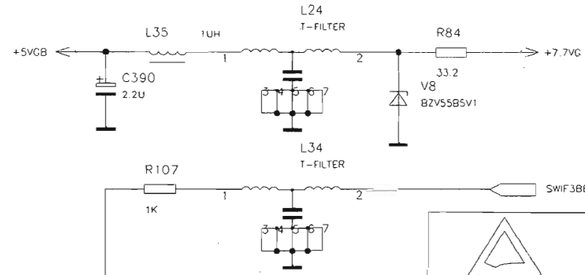
ZEICHN.-NR. 1051.2607.01 S

BLATT-NR. 6 +

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01







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

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

* NOT FITTED

AEND IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	MEZ1	DATUM	NAME
BEARB.			IM
GEPR.			
NORM			
PLOTT	98-11-11	IM IMMERZ	

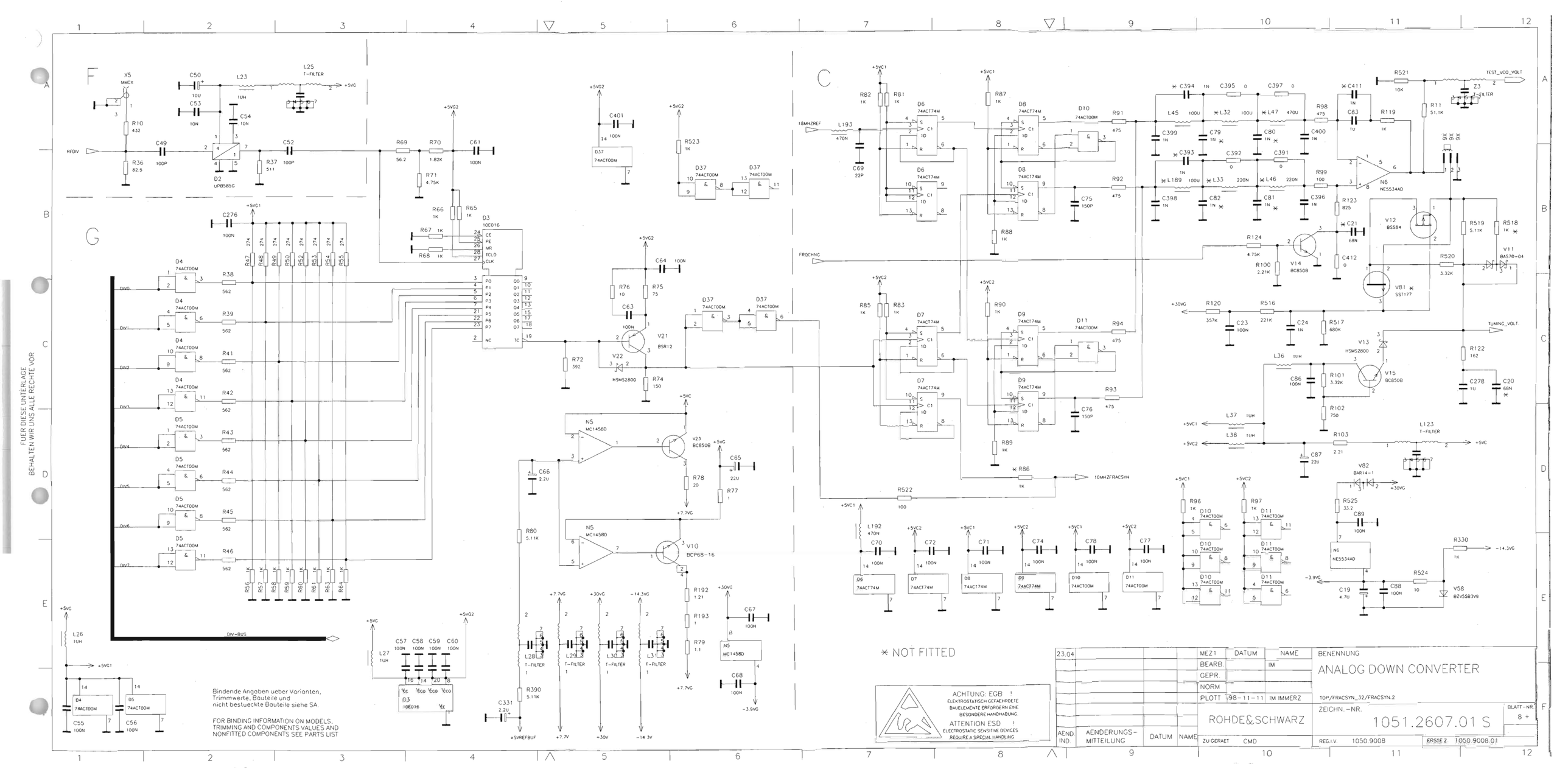
BENENNUNG
ANALOG DOWN CONVERTER
TOP/FRACSYN_32/FRACSYN.1

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2607.01 S

BLATT-NR. 7 +

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01


F
G
C
X5
MMCX
L25
T-FILTER
+5VG
RFDIV
D2
UPB585G
+5VG2
+5VC1
+5VC2
DIV-BUS
D3
10E016
D4
74ACT00M
D5
74ACT00M
D6
74ACT74M
D7
74ACT74M
D8
74ACT74M
D9
74ACT74M
D10
74ACT00M
D11
74ACT00M
D37
74ACT00M
18MHZREF
FRQCHNG
10MHZFRACSYN
TEST_VCO_VOLT
TUNING_VOLT
N5
MC1458D
N6
NE5534AD
V10
BCP68-16
V11
BAS70-04
V12
BSS84
V13
HSMS2800
V14
BC850B
V15
BC850B
V21
BSR12
V22
HSMS2800
V23
BC850B
V58
BZV55B3V9
V81
SST177
V82
BAR14-1
+7.7VG
+30VG
-14.3VG
-3.9VG
+5REFBUF
+7.7V
+30V
-14.3V
* NOT FITTED
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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR
23.04
MEZ1
DATUM
NAME
BEARB.
IM
GEPR.
NORM
PLOTT
98-11-11
IM IMMERZ
TOP/FRACSYN_32/FRACSYN.2
BENENNUNG
ANALOG DOWN CONVERTER
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2607.01 S
BLATT-NR.
8 +
AEND IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
ZU GERAET
CMD
REG.NR.
1050.9008
ERSTE Z
1050.9008.01

BEHALTEN WIR UNS ALLE RECHTE VOR

P7

P12

G

P7
EPRESS-L6.8

10MHZFRACSYN

D12
FRACSYN2

R108 1K
R109 1K

CKI
AUFAB
CLEAR
SCLK
ADWE15
ADWE14
ADWE13
ADWE12
ADWE11
ADWE10
ADWE9
ADWE8
ADWE7
ADWE6
ADWE5
ADWE4
ADWE3
ADWE2
ADWE1
ADWE0
CENB
WRITEB
PARDAT15
PARDAT14
PARDAT13
PARDAT12
PARDAT11
PARDAT10
PARDAT9
PARDAT8
PARDAT7
PARDAT6
PARDAT5
PARDAT4
PARDAT3
PARDAT2
PARDAT1
PARDAT0
ADR3
ADR2
ADR1
ADR0
PARSER
ACSE
TRISTATE
RESET
DELTRAIN
SERCLOCK

CKO
MCO

P12
EPRESS-L6.8

DIVPROG10
DIVPROG9
DIVPROG8
DIVPROG7
DIVPROG6
DIVPROG5
DIVPROG4
DIVPROG3
DIVPROG2
DIVPROG1
DIVPROG0

DIV7
DIV6
DIV5
DIV4
DIV3
DIV2
DIV1
DIV0

DIV-BUS

KOMPOUT11
KOMPOUT10
KOMPOUT9
KOMPOUT8
KOMPOUT7
KOMPOUT6
KOMPOUT5
KOMPOUT4
KOMPOUT3
KOMPOUT2
KOMPOUT1
KOMPOUT0

DELTAOUT
DATAOUT
DATAEN

Vdd
Vss

+5VG
L39
1UH

C96 100N
C94 100N
C93 100N
C92 100N

R110 1K
R111 1K
R118 1K

D13
74HCT14T

C90
100P

R104
475

V16
HSMS2800

R105
100

V17
HSMS2800

R106
10K

C91
1N

FROCHNG

FRAC_STR
R113
39.2
L40 10DB
T-FILTER
R112
100

FRAC_DAT
R114
39.2
L41 10DB
T-FILTER
R115
100

FRAC_CLK
R117
39.2
L42 10DB
T-FILTER
R116
100

FRACRST
L59
100N
L58 10DB
T-FILTER
L60
100N

+5VG
L43
1UH
C97
100N

R95
1K

* NOT FITTED

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

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

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	DATUM	NAME
MEZ1		
BEARB.		IM
GEPR.		
NORM		
PLOTT	98-11-11	IM IMMERZ

BENENNUNG
ANALOG DOWN CONVERTER

TOP/FRACSYN_32/FRACSYN.3

ROHDE&SCHWARZ

ZEICHN.-NR.
1051.2607.01 S

BLATT-NR.
9 +

ZU GERAET CMD | REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01

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

OSCOUT
R3 16.2
R4 16.2
C8 100P
N3 MSA0986
+15VE
R354 121
C9 100P
R353 150
C46 100P
R355 121
RFDIV
R352 82.5
R351 16.2
R356 274
C269 10N
L6 47N
C48 100P
N4 MSA0986
C47 10N
R187 0
R188 0
R357 47 *
R358 47 *
C271 10N *
L142 6.8N *
R34 0
R33 150
R35 1K *
R363 1K *
R364 1K *
R369 432
C42 1N
R368 1K *
N2 MC12093
SW1
SW2
SB
C44 1N
C43 1N
R370 10
R32 470
R371 470
C272 1N
C45 1N
C1B
C149 100P
C270 100P
C2B
RF1
RF2
RF COM
V2
V1
GND
D34 SW-239
+5VE
C143 1N
L154 10U
C277 1N
N2 MC12093
R189 475
R560 475
C122 10N
L141 22U
N11 SNA286
C138 1N
C1A
C273 100P
C274 100P
C2A
D33 SW-239
LO1
R196 221
V68 BZV55B5V1
L144 T-FILTER 40DB
+14.3VRF
V3 BZV55B5V1
R24 4.75K
-14.3VRF
C1A
D32 74HCT02T
+15VE
V60 BZV55B5V1
R25 4.75K
R30 1K
R31 47.5K
V64 BC850B
C2A
R23 1K
SW1
V65 BSR58
R22 47.5K
V4 BC850B
L17 T-FILTER 10DB
FRODIV0
L18 100N
L19 100N
L20 T-FILTER 10DB
FRODIV1
L22 100N
L21 100N
L148 T-FILTER 10DB
FRODIV2
L147 100N
L146 100N
C37 10N
D32 74HCT02T
SB
V61 BZV55B5V1
R26 4.75K
C1B
V62 BZV55B5V1
R27 4.75K
C2B
V66 BSR58
R28 1K
SW2
R29 47.5K
V63 BC850B
L149 10U
C39 1N
D35 UPB584G
C123 1N
C38 1N
C41 1N
R199 0
R387 1K *
R365 47
C325 1.8P
R388 1K *
C326 1P
L62 10N
L63 10N
R366 47
C145 1N
N15 SNA286
R367 475
R561 475
C146 1N
L69 10U
C147 10N

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

* NOT FITTED

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	DATUM	NAME
MEZ1		
BEARB.		IM
GEPR.		IM
NORM		
PLOTT	98-11-11	IMMERZ

ZU GERAET CMD

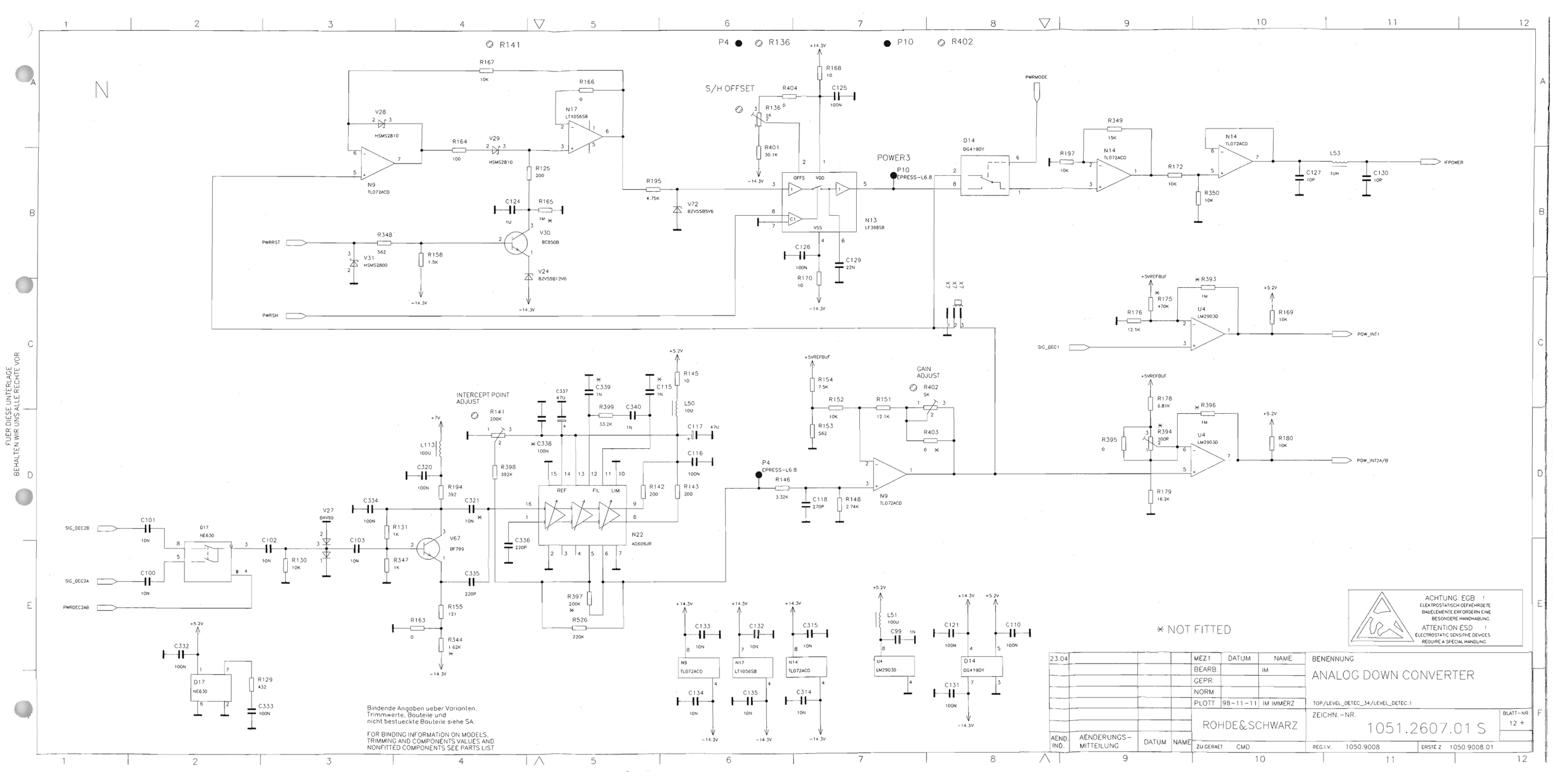
BENENNUNG
ANALOG DOWN CONVERTER
TOP/FRACSYN_32/FRACSYN.4

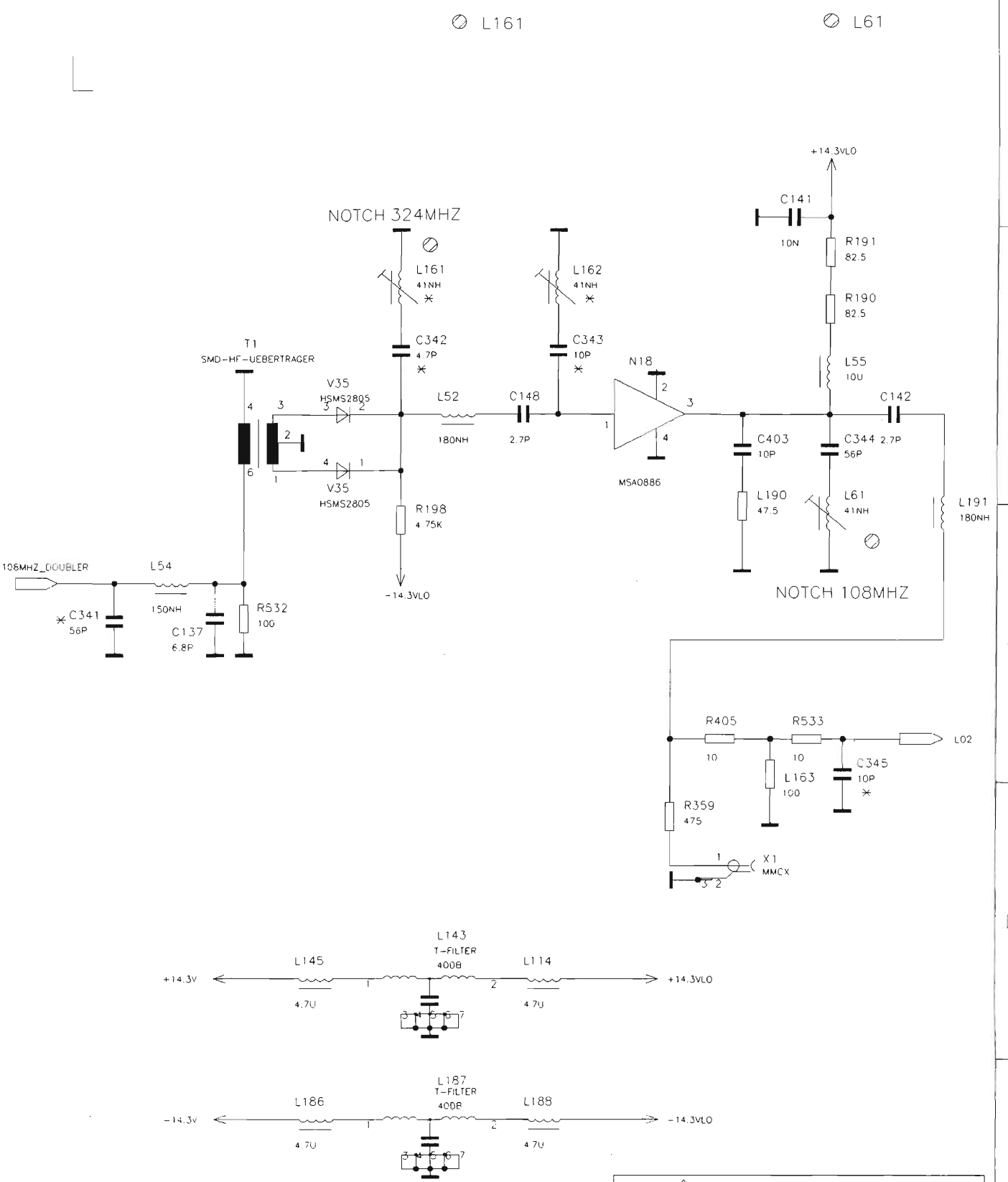
ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2607.01 S

BLATT-NR. 10 +

REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01


R141
P4
R136
P10
R402
S/H OFFSET
POWER3
PWRMODE
INTERCEPT POINT ADJUST
GAIN ADJUST
IFPOWER
POW_INT1
POW_INT2A/B
PWRRST
PWRSH
SIG_DEC1
SIG_DEC2A
SIG_DEC2B
PWRDEC2AB
N9 TL072ACD
N13 LF398S8
N14 TL072ACD
N17 LT1056S8
N22 AD606JR
D14 DG419DY
D17 NE630
U4 LM2903D
V67 BF799
V72 BZV55B5V6
V24 BZV55B12V0
V27 BAV99
V28 HSMS2810
V29 HSMS2810
V30 BC850B
V31 HSMS2800
+14.3V
-14.3V
+5.2V
+7V
+5VREFBUF
EPRESS-L6.8
REF
FIL
LIM
OFFS
VDD
VSS
* NOT FITTED
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
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
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR
23.04
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
MEZ1
BEARB.
GEPR.
NORM
PLOTT 98-11-11 IM IMMERZ
IM
BENENNUNG
ANALOG DOWN CONVERTER
TOP/LEVEL_DETEC_34/LEVEL_DETEC.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2607.01 S
BLATT-NR. 12 +
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z 1050.9008.01



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

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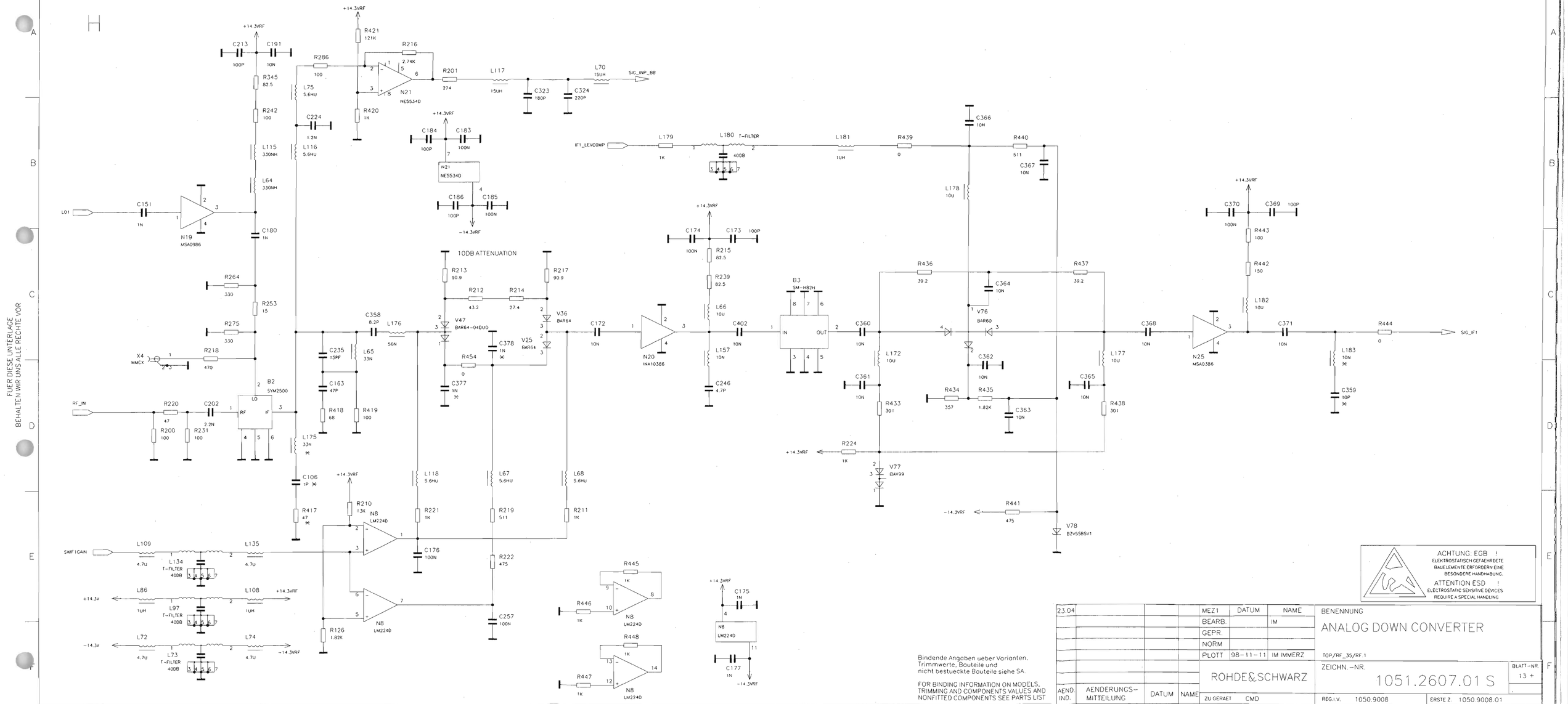
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

23.04				MEZI	DATUM	NAME	BENENNUNG
				BEARB.		IM	ANALOG DOWN CONVERTER
				GEPR.			
				NORM			
				PLOTT	98-11-11	IM IMMERZ	TOP/LO_33/LO.1
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2607.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			REGIV 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR. 11 +


+14.3VRF
C213 100P
C191 10N
R345 82.5
R242 100
L115 330NH
L64 330NH
C180 1N
R264 330
R253 15
R275 330
R218 470
X4 MMCX
LO1
C151 1N
N19 MSA0986
RF_IN
R220 47
C202 2.2N
R200 100
R231 100
B2 SYM2500
LO
RF
IF
L175 33N
C106 1P
R417 47
R286 100
L75 5.6HU
C224 1.2N
L116 5.6HU
R421 121K
R216 2.74K
R201 274
L117 15UH
C323 180P
L70 15UH
C324 220P
SIG_INP_6B
N21 NE5534D
R420 1K
C184 100P
C183 100N
C186 100P
C185 100N
-14.3VRF
10DB ATTENUATION
R213 90.9
R212 43.2
R214 27.4
R217 90.9
V47 BAR64-04DUO
V36 BAR64
V25 BAR64
C358 8.2P
L176 56N
C235 15PF
L65 33N
C163 47P
R418 68
R419 100
C378 1N
R454 0
C377 1N
C172 10N
N20 INA10386
C174 100N
C173 100P
R215 82.5
R239 82.5
L66 10U
C402 10N
L157 10N
C246 4.7P
B3 SM-H82H
IN
OUT
C360 10N
L172 10U
C361 10N
R433 301
R224 1K
V77 BAV99
R436 39.2
R437 39.2
C364 10N
V76 BAR60
C362 10N
R434 357
R435 1.82K
C363 10N
C365 10N
R438 301
L177 10U
C366 10N
L178 10U
R440 511
C367 10N
R441 475
V78 BZV55B5V1
IF1_LEVCOMP
L179 1K
L180 T-FILTER 40DB
L181 1UH
R439 0
C368 10N
N25 MSA0386
C370 100N
C369 100P
R443 100
R442 150
L182 10U
C371 10N
R444 0
SIG_IF1
L183 10N
C359 10P
L118 5.6HU
L67 5.6HU
L68 5.6HU
R210 1.3K
N8 LM224D
R221 1K
R219 511
R211 1K
C176 100N
R222 475
C257 100N
R126 1.82K
SWIF1GAIN
L109 4.7U
L134 T-FILTER 40DB
L135 4.7U
+14.3V
L86 10UH
L97 T-FILTER 40DB
L108 10UH
-14.3V
L72 4.7U
L73 T-FILTER 40DB
L74 4.7U
R445 1K
R446 1K
R448 1K
R447 1K
C175 1N
C177 1N
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR
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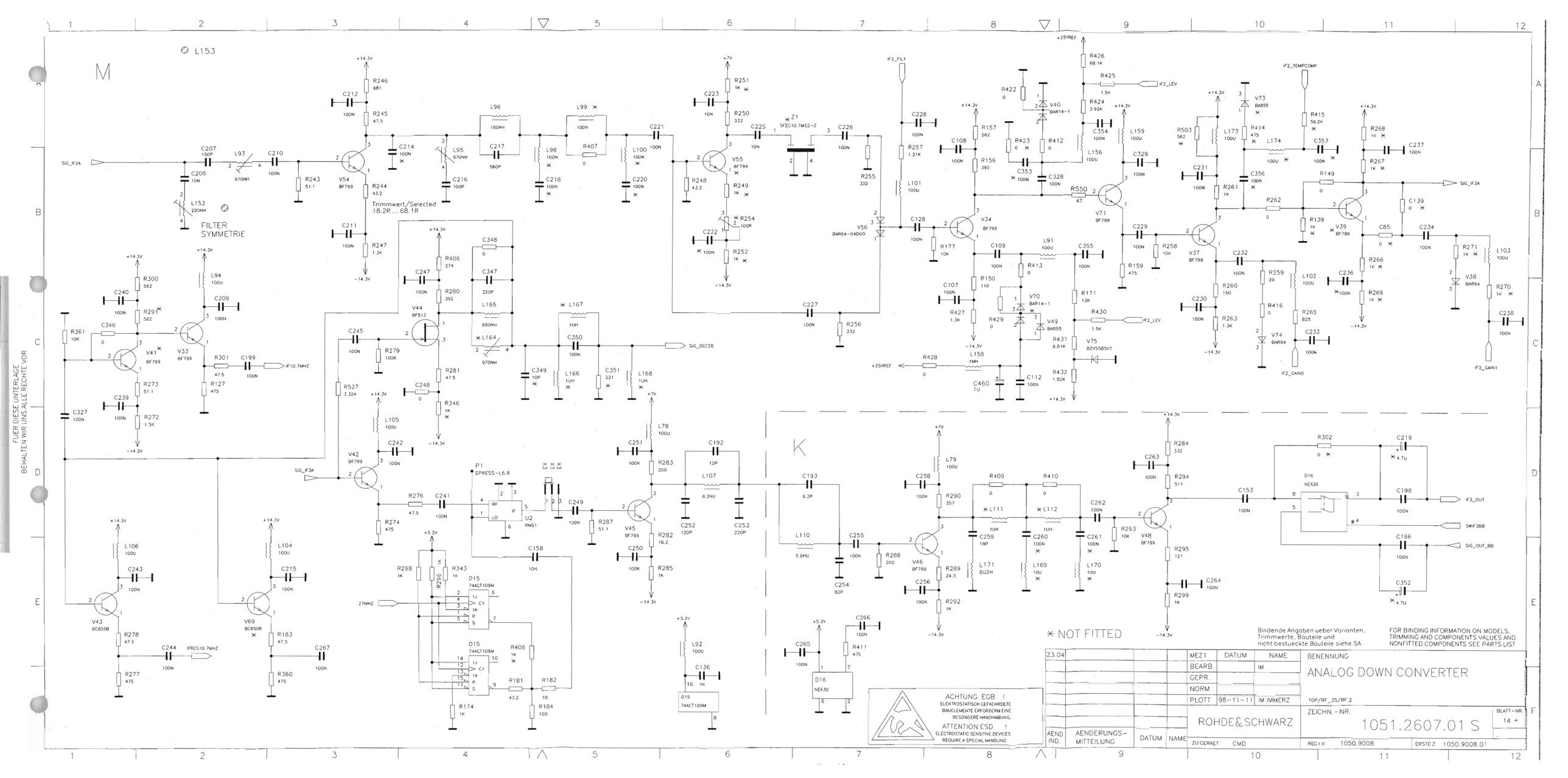
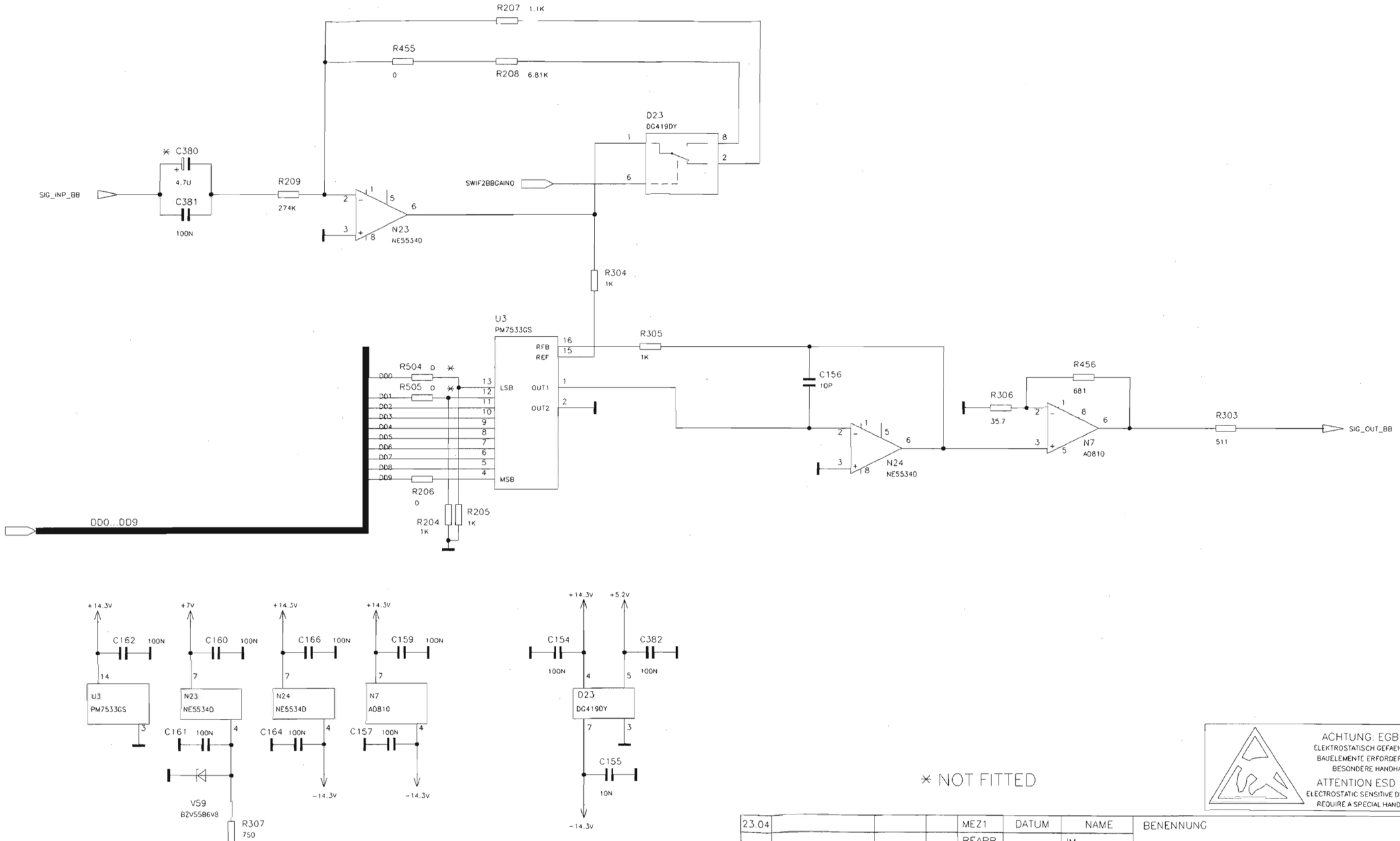
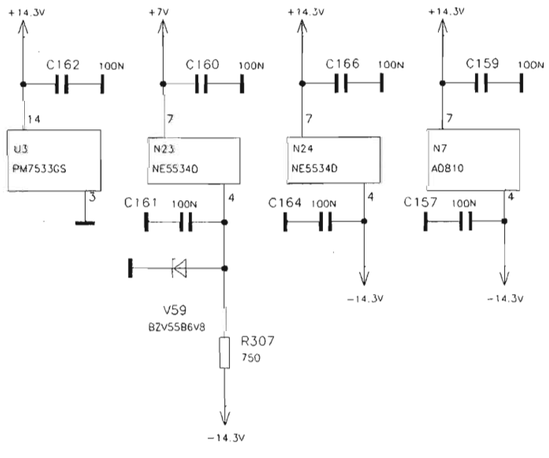
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST
23.04
MEZ1 DATUM NAME
BEARB. IM
GEPR.
NORM
PLOTT 98-11-11 IM IMMERZ
TOP/RF_3S/RF_1
BENENNUNG
ANALOG DOWN CONVERTER
ROHDE&SCHWARZ
ZEICHN.-NR. 1051.2607.01 S
BLATT-NR 13 +
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM NAME
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1050.9008.01


M
K
L153
FILTER SYMMETRIE
Trimmwert/Selected 18.2R...68.1R
SIG_IF2A
SIG_IF3A
SIG_DEC2B
IF10.7MHZ
IFRES10.7MHZ
27MHZ
IF2_FIL1
IF2_LEV
IF2_TEMPCOMP
IF2_GAIN0
IF2_GAIN1
IF3_OUT
SWIF3BB
SIG_OUT_BB
+25VREF
+14.3V
-14.3V
+7V
+5.2V
* NOT FITTED
FUER DIESE UNTERLAGE 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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD ! ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
MEZ1 DATUM NAME
BEARB. IM
GEPR.
NORM
PLOTT 98-11-11 IM IMMERZ
BENENNUNG
ANALOG DOWN CONVERTER
TOP/RF_35/RF.2
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2607.01 S
BLATT-NR. 14 +
AEND. IND. AENDERUNGS-MITTEILUNG DATUM NAME
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1050.9008.01

K





* NOT FITTED

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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	DATUM	NAME
MEZ1		
BEARB.		IM
GEPR.		
NORM		
PLOTT	98-11-11	IM IMMERZ

BENENNUNG
ANALOG DOWN CONVERTER
TOP/RF_35/RF.3

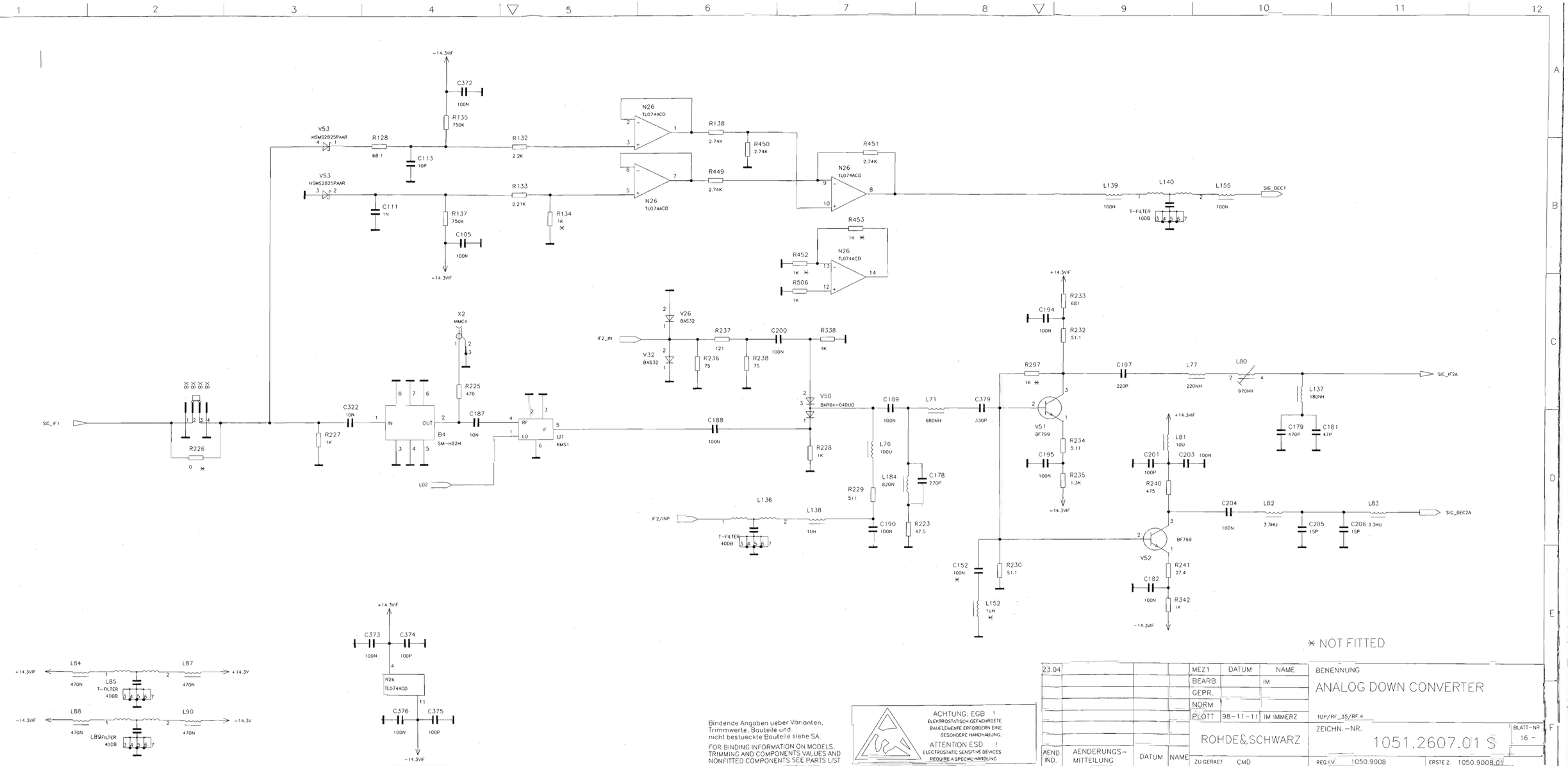
ROHDE&SCHWARZ

ZU GERAET CMD

ZEICHN.-NR. 1051.2607.01 S

BLATT-NR. 15 +

REG.I.V. 1050.9008 | ERSTE Z. 1050.9008.01



FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

* NOT FITTED

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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
23.04			

	DATUM	NAME
MEZ1		
BEARB.		IM
GEPR.		
NORM		
PLOTT	98-11-11	IM IMMERZ

BENENNUNG
ANALOG DOWN CONVERTER

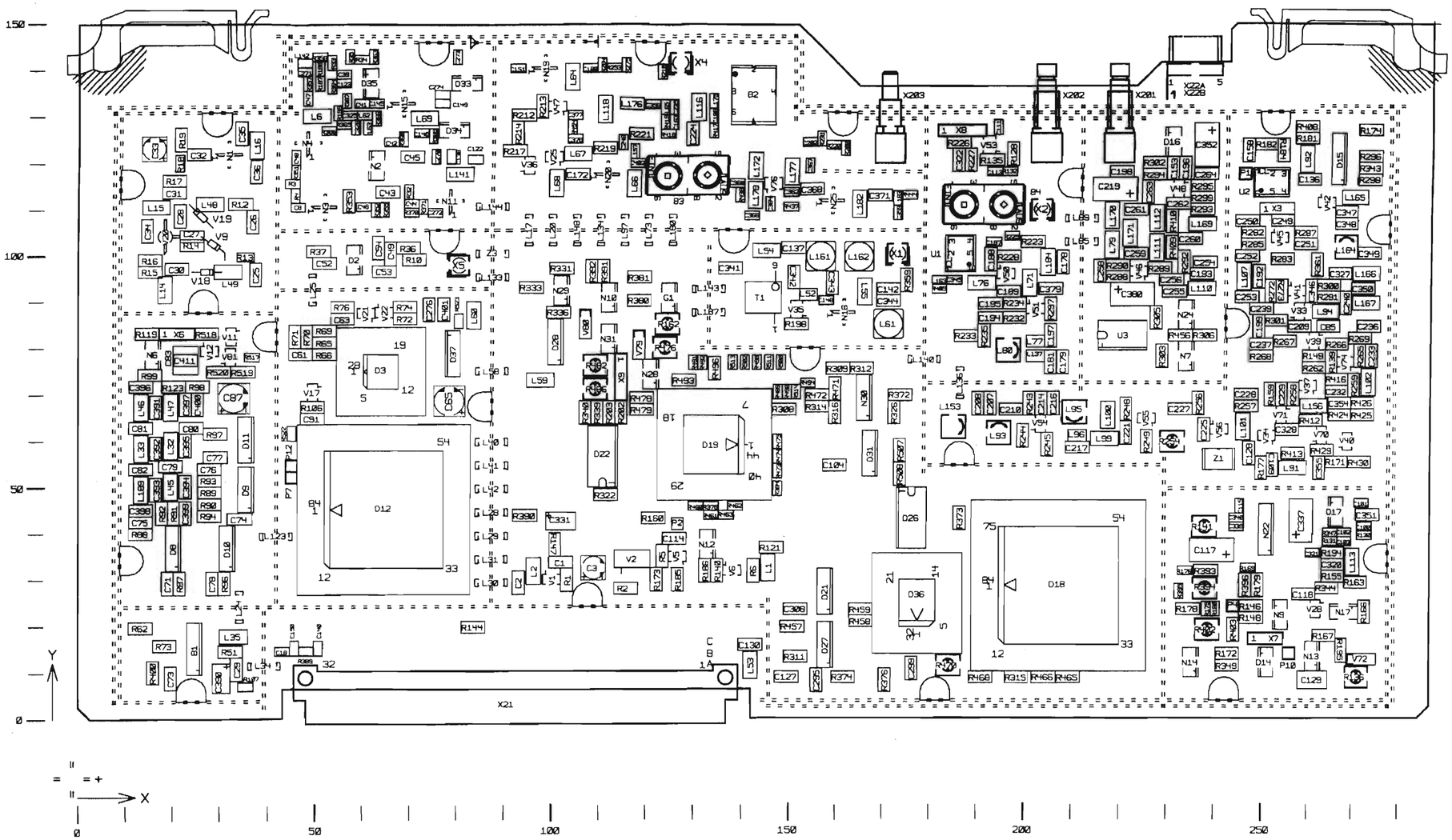
TOP/RF_35/RF_4

ROHDE&SCHWARZ

ZEICHN.-NR.
1051.2607.01 S

BLATT-NR.
16

ZU GERAET CMD | REG.EV 1050.9008 | ERSTE Z. 1050.9008.01



DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: ESD!
ELEKTROSTATISCH GEFAEHRDETE 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.

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
06	50681	01.95	NG
02	50681(15)	12.94	NG

	TAG	NAME
1CMK		NG
BEARB.		NG
GEPR.		
NORM		
PLOTT	23.01.95	

ROHDE&SCHWARZ
ZU GERAET CMD70

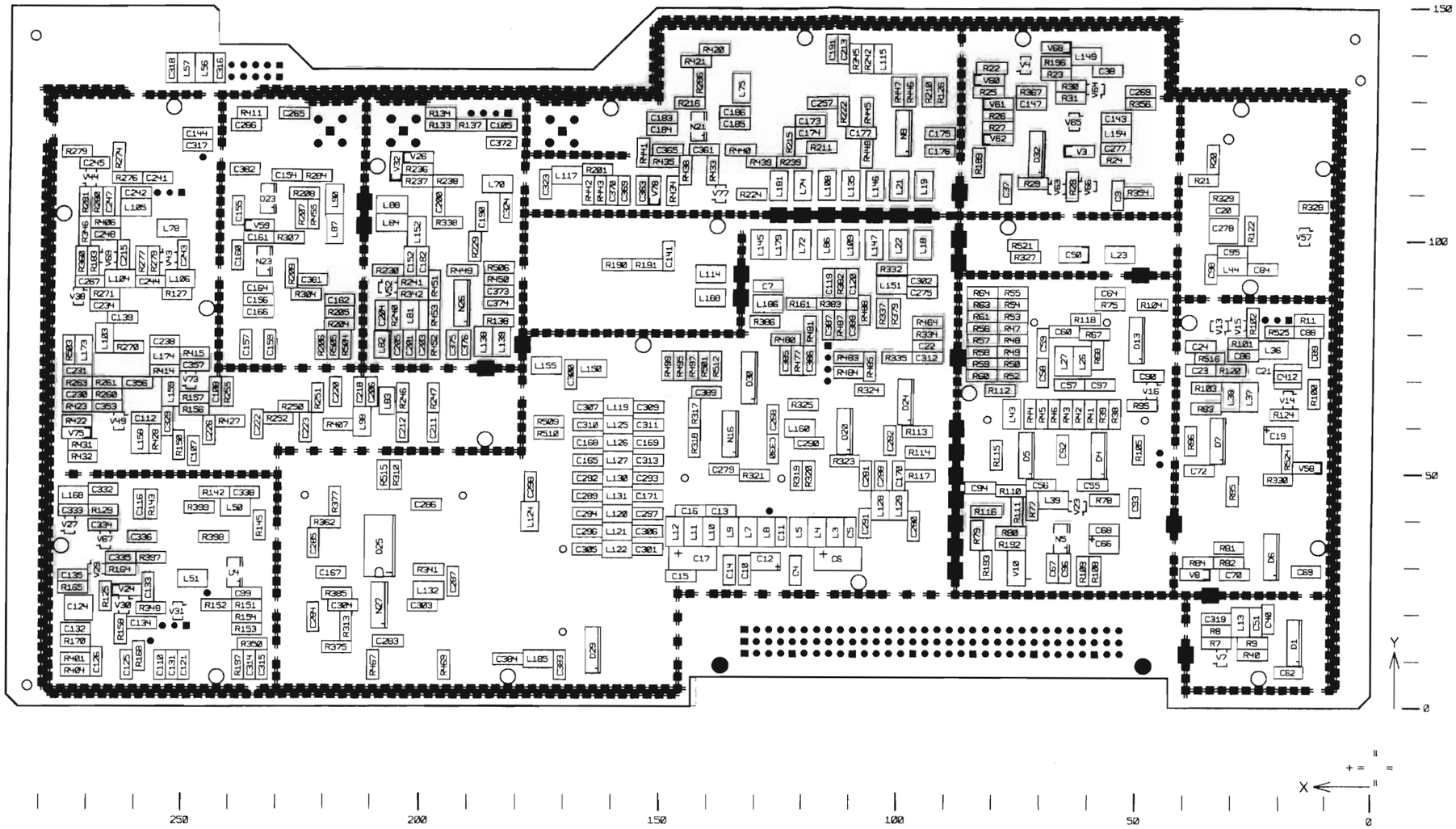
BENENNUNG
ANALOG_DOWN_CONVERTER

ZEICHN.-NR.
1051.2607.01

BLATT-NR. 1+
V.10 BL.

REG.I.v. 1050.9008
ERSTE Z. 1050.9008

AUSSER DIESE SEITE BEHALTEN WIR UNS RECHTE VOR



DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE 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.

06	50681	01.95	NG	1CMK	TAG	NAME	BENENNUNG: ANALOG_DOWN_CONVERTER
				BEARB.		NG	
				GEPR.		NG	
				NORM			
				PLOTT	23.01.95		
02	50681(15)	12.94	NG				ZEICHN.-NR.: 1051.2607.01
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			BLATT-NR.: 2+
				ZU GERAET CMD70			REG.I.V. 1050.9008 / ERSTE Z. 1050.9008

ROHDE&SCHWARZ

SERVICE DOCUMENTS
Digital Downconverter

1051.2407.02

Contents

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
X61A22	SERBDATA, serbus data	B	D	TTL	
X61A23	SERBINT, serbus interrupt	B	D	TTL	(active low)
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	
X61C14	ID1	O	D	TTL	
X61C15	ID2	O	D	TTL	
X61C16	ID3	O	D	TTL	I/Q signals to
X61C17	ID4	O	D	TTL	link handler
X61C18	ID5	O	D	TTL	
X61C19	ID6	O	D	TTL	Synchronous to
X61C20	ID7	O	D	TTL	IQCLK clock
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	
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	Interface to
X62C14	BD7, "	B	D	TTL	option board
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

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

095.1000 Bl. 3

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 DSP56002-MODUL NUR VAR/ONLY MOD: 02	4037.2102.03			
A61	ED DSP56002-MODUL DSP56002-MODUL NUR VAR/ONLY MOD: 04	4037.2102.03			
A61	EE DSP MODULE NUR VAR/ONLY MOD: 06	1097.3106.13			
A61	ED DSP56002-MODUL DSP56002-MODUL NUR VAR/ONLY MOD: 08	4037.2102.03			
A62	EE DITHER UNIT DITHER UNIT NUR VAR/ONLY MOD: 02	1051.2859.02			
A62	EE DITHER UNIT NUR VAR/ONLY MOD: 04	1097.3229.02			
A62	EE DITHER UNIT DITHER UNIT NUR VAR/ONLY MOD: 06	1051.2859.02			
A62	EE DITHER UNIT NUR VAR/ONLY MOD: 08	1051.2859.08			
C1	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
C4	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C5	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C6 ..9	CE 220UF+-20%6,3V AL-CHIP SMD-ELECTROLYTIC CAPACIT.	CE 0008.1858.00	VALVO	2222 139 63221	
C10 ..12	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C13	CE 47UF+-20%16V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C14	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	
C15	CE 47UF+-20%16V RUND SMD SMD-ELECTTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
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	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
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-ELECTTROLYTIC 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-ELECTTROLYTIC 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-ELECTTROLYTIC 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-ELECTTROLYTIC CAPACIT	CE 0009.6547.00	PANASONIC	EEV HB 1C 470P	
C30	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C31	CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP	CC 0520.6850.00	AVX	1210 5C 224KA 11A	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
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 ..43	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
C65	CC 820PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7381.00	MURATA	GRM42-6C0G 821F50ZPT	
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	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
C159	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C160	CC 47PF+-1%50V C0G 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6C0G 470F50ZPT	
C161	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C162	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C163	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C164	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C165	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C166	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C167 ..170	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C171	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
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 74FCT138CTSO1-8DECODER 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	NSC	74F112SC	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D12	BC TC55328J-25 32KX8 SRAM	0008.1064.00	MOTOROLA	MCM6206CJ(D)25	
..14	RAM 32KX8 25NS				
D15	BL 74FCT138CTSO1-8DECODER	1051.5164.00	IDT	(IDT74)FCT138C(TSO)	
	IC 1-OF-8 DECODER				
D16	BL PC74HCT245T 8XTRANSC	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
	OCTAL BUS TRANSCEIVER				
D17	BL PC74HCT173T 4XD-FF 3S	BL 0007.6933.00	PHILIPS	(PC)74HCT173(T)	
	QUAD D-TYPE FLIPFLOP				
D18	BC XC3042-100PC84C LCA	2032.2624.00	XILINX	XC3042-100PC84C	
	IC LOGIC ARRAY CELL				
D19	HS FPGA D19 DDC	1051.2471.00			
D20	HS GAL D20 DDC	1051.2488.00			
D21	BL 74ACT08SC 4X2-IN AND	BL 1012.9362.00	HARRIS	CD74ACT08M	
	IC QUAD 2-INP AND GATE				
D22	BC IDT7203L15J FIFO	1097.6634.00	IDT	IDT7203L15J	
	IC MEMORY				
D23	BC IDT7203L15J FIFO	1097.6634.00	IDT	IDT7203L15J	
	IC MEMORY				
D24	BL 74F11D 3X3INP AND GATE	0380.1547.00	SIGNETICS	(N)74F11D	
	IC TRIPLE THREE-INP AND				
D25	BL 74ABT16821DL 3S BUS FF	0009.6560.00	TEXAS	(SN74)ABT16821(DL)	
	IC 20BIT FLIP FLOP				
D26	BL 74ABT16821DL 3S BUS FF	0009.6560.00	TEXAS	(SN74)ABT16821(DL)	
	IC 20BIT FLIP FLOP				
D27	BL 74ABT574D 8XD-FF 3S	0009.8404.00	PHILIPS_SE	(74)ABT574A(D)	
..29	OCTAL D-TYPE FLIPFLOP				
D30	BL PC74HCT00T 4X2IN.NAND	BL 0007.6156.00	PHILIPS_SE	(PC)74HCT00D(T)	
	NAND GATE				
D31	BL PC74HCT4094T 8ST.SHREG	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
..39	SHIFT REGISTER				
D40	BL PC74HCT08T 4X2IN ANDG	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
	AND GATE				
D41	BG TH3032.1C SERBUSD ASIC	0008.6143.00	THESYS	TH3032.1C	
	IC GATE ARRAY				
D42	BC X24C16S14 2KX8 EEPROM	1028.8190.00	XICOR	X24C16S(14)	
	SERIAL EEPROM				
D43	BL PC74HCT125T 4XBUFF. 3S	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
	QUAD LINE DRIVER				
D44	BL PC74HCT273T 8XD-FF	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
	OCTAL D-TYPE FLIPFLOP				
D45	BL PC74HCT4094T 8ST.SHREG	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
	SHIFT REGISTER				
D46	BL PC74HCT165T 8B SHREG	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
	SHIFT REGISTER				
D47	BL PC74HCT165T 8B SHREG	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
	SHIFT REGISTER				
D48	BL PC74HCT08T 4X2IN ANDG	BL 0007.6179.00	PHILIPS_SE	(PC)74HCT08(D/T)	
	AND GATE				
D49	BL PC74HCT4094T 8ST.SHREG	BL 0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
	SHIFT REGISTER				
D50	BL 74ACT08SC 4X2-IN AND	BL 1012.9362.00	HARRIS	CD74ACT08M	
	IC QUAD 2-INP AND GATE				
D51	BL PC74HCT125T 4XBUFF. 3S	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
	QUAD LINE DRIVER				
D52	BL 74ACT32SC 4X2-IN OR	BL 1012.9385.00	HARRIS	CD74ACT32M	
	IC QUAD 2-INPUT OR GATE				
D53	BL 74ACT174SC 6XD-FLIPFL	BL 1012.9427.00	HARRIS	CD74ACT174M	
	IC HEX D-FLIPFLOP M				
D54	BL 74ACT32SC 4X2-IN OR	BL 1012.9385.00	HARRIS	CD74ACT32M	
	IC QUAD 2-INPUT OR GATE				
D55	BL 74ACT04SC 6X INVERTER	BL 1012.9379.00	HARRIS	(CD74)ACT04(M)	
	IC HEX INVERTER				
D56	BL 74ACT541SC 8XBUF/DR 3S	BL 1006.4033.00	HARRIS	CD74ACT541M	
	8XBUFFER/LINEDRIV 3-ST				
D57	BL 74ACT245SC 8XBUSTRANSC	BL 0008.0739.00	HARRIS	CD74ACT245M	
	IC OCTAL BUS-TRANSC 3-ST				
D58	BL 74ACT245SC 8XBUSTRANSC	BL 0008.0739.00	HARRIS	CD74ACT245M	
	IC OCTAL BUS-TRANSC 3-ST				
D59	BL 74ACT74SC 2XRSFLIPFLOP	BL 0008.0680.00	HARRIS	(CD74)ACT74(M)	
	IC DUAL D-FLIPFLOP				
D60	FR PLCC-FASSG.68P.IN SMT	FR 0008.1935.00	AMP	822280-1 STANGE 18ST	
	PLCC-SOCKET 68P.				
D61	BL 74ABT574D 8XD-FF 3S	0009.8404.00	PHILIPS_SE	(74)ABT574A(D)	
	OCTAL D-TYPE FLIPFLOP				
D62	BL 74ACT573SC 8XTRLATCH3S	BL 0008.0751.00	HARRIS	CD74ACT573M	
	IC OCTAL TRANSP.LATCH 3ST				
D63	BL 74ACT573SC 8XTRLATCH3S	BL 0008.0751.00	HARRIS	CD74ACT573M	
	IC OCTAL TRANSP.LATCH 3ST				

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
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	
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)ABT574A(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 OP07CS8 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 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P2	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P3	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P5	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P6	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P7	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	PHILIPS_CO	RC02	
R2	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R3	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R4	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R5	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R6	RG 750 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9097.00	PHILIPS_CO	RC02	
R7	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	PHILIPS_CO	RC02	
R8	RG 0-OHM WIDERSTAND 1206 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	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R11	RG 0-OHM WIDERSTAND 1206 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 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
R17	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R18 ..23	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R24	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R25 ..34	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
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 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R38	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R39 ..45	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R46	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	PHILIPS_CO	RC02	
R47 ..55	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
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 ..67	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R68	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	PHILIPS_CO	RC02	
R69 ..77	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
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 ..89	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R90	RG 681 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9080.00	PHILIPS_CO	RC02	
R91 ..98	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R99	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R100 ..141	RG 47K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7072.00	DRALORIC	CR 0603	
R142 ..148	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
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	PHILIPS_CO	RC02	
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 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	

Kennz. Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R154	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R155 ..160	RG 47K +-1% TK200 SMD-RESISTOR EIA0603	0603	0009.7072.00	DRALORIC	CR 0603	
R161 ..165	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R166	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5820.00	PHILIPS_CO	RC02	
R167 ..170	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R171	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R172	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R173	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R174	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R175	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R176	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R177	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R178	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R179	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R180	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R181	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R182	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R183	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R184	RG 4,75KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5820.00	PHILIPS_CO	RC02	
R185 ..187	RG 100 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.8884.00	PHILIPS_CO	RC02	
R188	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R189	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R190	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R191	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R192	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R193	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R194	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R195	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R196	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R197	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R198	RG 1,0 KO +-1%TK100 CHIP RESISTOR	1206	RG 0006.7271.00	PHILIPS_CO	RC02	
R199 ..206	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	PHILIPS_CO	RC02	
R207	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R208 ..210	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	PHILIPS_CO	RC02	
R211	RG 5,11KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0007.0729.00	PHILIPS_CO	RC02	
R212	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R213	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	PHILIPS_CO	RC02	
R214	RG 5,11KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0007.0729.00	PHILIPS_CO	RC02	
R215	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R216	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R217	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R218	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R219 ..226	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	PHILIPS_CO	RC02	
R227	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R228	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R229	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R230	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R231	RG 0-OHM WIDERSTAND 1206 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 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R243	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R244	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R245	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R246	RG 0-OHM WIDERSTAND 1206 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 1206 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	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
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 1206 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	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
R290	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R291	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 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	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
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	PHILIPS_CO	RC02	
R303 ..308	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R309	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R310	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R311	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	
R317 ..319	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R320	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R321	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R322	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R323	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R324	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R325 ..327	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	PHILIPS_CO	RC02	
R328	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R329	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R330	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R331	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R332 ..334	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	PHILIPS_CO	RC02	
R335 ..338	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R339	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R340 ..349	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R350	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R351 ..360	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R361	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	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	PHILIPS_CO	RC02	
R366	RG 0-OHM WIDERSTAND 0603 0-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R367	RG 0-OHM WIDERSTAND 0603 0-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	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
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	
R374	RG 33R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6918.00	DRALORIC	CR 0603	
R375 ..378	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R379	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603	
R380 ..383	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R384	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
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 MEDIUM POWER TRANSISTOR	0008.2019.00	PHILIPS	BCP68-25	
V2	AK BCP69-25 P 20V TRANS MEDIUM POWER TRANSISTOR	0008.2002.00	PHILIPS	BCP 69-16 (25)	
V3	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V4 ..7	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
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 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V11	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
X1	FP STECKERLEISTE 50P.R=2 CONNECTOR	FP 6047.8835.00	BERG_ELEKT	86964-641	
X2	FP STECKERLEISTE 50P.R=2 CONNECTOR	FP 6047.8835.00	BERG_ELEKT	86964-641	
X3	FP STIFTLEISTE 2P.R=2 CONNECTOR	FP 1065.8931.00	SUYIN	PTB1-02S1-30T	
X4	FP STIFTLEISTE 2P.R=2 CONNECTOR	FP 1065.8931.00	SUYIN	PTB1-02S1-30T	
X5	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X6	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X7	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X8	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X9	FP STECKERLEISTE 10POL. CONNECTOR 10P	FP 6040.4611.00			
X10 ..12	FP BUCHSENLEISTE 50P.R=2 CONNECTOR 50P	FP 4037.2125.00	BERG_ELEKT	87173-150	
X21 ..24	FP STIFTLEISTE 20P.2REIH. CONNECTOR 20P.	FP 0520.6521.00	BINDER	11-0209-00-20	
X30	FP STIFTLEISTE 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	ROSENBERGE	59S-206-400-D3	
Z1	LD PI-FILTER 10GHZ SMD SMD-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
-	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
C1	CE 10UF+-20%16V RUND SMD	0010.7914.00	PANASONIC	EEV-HB1C100R	
..3	SMD-ELECTROLYTIC CAPACIT.				
C4	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C5	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C6	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
..6					
..9					
C9	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 08	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C12	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C13	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C14	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
..18					
C19	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 02	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
..19					
..22					
C22	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 08	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C23	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C24	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C25	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C26	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C27	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C28	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
D1	BL 74ACT02SC 4X2NOR O.C IC QUAD 2INP NOR GATE	BL 0008.0674.00	RCA	CD74ACT02M	
D2	HS FPGA D2 NUR VAR/ONLY MOD: 02	1051.2888.00			
D2	HS FPGA D2 NUR VAR/ONLY MOD: 08	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	
D4	BJ CXD1171M 1X8B-DAC IC DAC NUR VAR/ONLY MOD: 08	1051.5629.00	HARRIS	HI1171JCB	
D5	:: 1CMK/NG/TDA8712T	1051.5206.00			
D6	BJ AD9040AJR 1X10B-ADC ICS AMPLING ADC	1065.8719.00	ANALOG_DEV	AD9040AJR	
D7	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 1206 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	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R5	RG 0-OHM WIDERSTAND 1206 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 NUR VAR/ONLY MOD: 04	RG 0007.0793.00	PHILIPS_CO	RC02	
R23	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NUR VAR/ONLY MOD: 04	RG 0007.0793.00	PHILIPS_CO	RC02	
R24	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R25	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R26	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	RS 0007.9632.00	BI_TECHNOL	23 B R... TR	
R27	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5720.00	PHILIPS_CO	RC02	
R27	RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 08	RG 0007.5720.00	PHILIPS_CO	RC02	
R28	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5772.00	PHILIPS_CO	RC02	
R28	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 08	RG 0007.5772.00	PHILIPS_CO	RC02	
R29	RG 200 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5608.00	PHILIPS_CO	RC02	
R30	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R31	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	PHILIPS_CO	RC02	
R32	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	PHILIPS_CO	RC02	
R33	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
R33	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 02	RG 0007.5108.00	DRALORIC	CR 1206	
R34	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 08	RG 0007.5108.00	DRALORIC	CR 1206	
R35	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02	RG 0007.5789.00	PHILIPS_CO	RC02	
R35	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 08	RG 0007.5789.00	PHILIPS_CO	RC02	
R36	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 02	RG 0007.5108.00	DRALORIC	CR 1206	
R36	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 08	RG 0007.5108.00	DRALORIC	CR 1206	
R37	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R38	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0007.0793.00	PHILIPS_CO	RC02	
R38	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NUR VAR/ONLY MOD: 08	RG 0007.0793.00	PHILIPS_CO	RC02	
R39	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 08	RG 0007.5108.00	DRALORIC	CR 1206	
R40	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
R40	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 02	RG 0007.5108.00	DRALORIC	CR 1206	
R41	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R42	RS 0,25W500 OHM+-20% SMD POTENTIOMETER	RS 0007.9603.00	BI_TECHNOL	23 B R... TR	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R43	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	PHILIPS_CO	RC02	
R45	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R46	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R47	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R48	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R49	RG 2,49KOH+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.8133.00	PHILIPS_CO	MPC 01	
R50	RG 2,49KOH+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.8133.00	PHILIPS_CO	MPC 01	
R51	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 02	RG 0007.5108.00	DRALORIC	CR 1206	
R51	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 08	RG 0007.5108.00	DRALORIC	CR 1206	
R52	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R53	RG 0-OHM WIDERSTAND 1206 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	
R56	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R57	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R58	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R59	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0007.0793.00	PHILIPS_CO	RC02	
R59	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR NUR VAR/ONLY MOD: 08	RG 0007.0793.00	PHILIPS_CO	RC02	
R60	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 02	RG 0006.7271.00	PHILIPS_CO	RC02	
R60	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 08	RG 0006.7271.00	PHILIPS_CO	RC02	
R61	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R63	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R64	RS 0,25W500 OHM+-20% SMD POTENTIOMETER	RS 0007.9603.00	BI_TECHNOL	23 B R... TR	
R66	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R67	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R68	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R69	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R70	RG 51,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1877.00	PHILIPS_CO	RC02	
R71	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	PHILIPS_CO	RC02	
R72	RG 61,9KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1890.00	PHILIPS_CO	RC02	
R73 ..82	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	PHILIPS_CO	RC02	
R83	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R84	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R85	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 04	RG 0007.5108.00	DRALORIC	CR 1206	
R86	RG 75,0KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1919.00	PHILIPS_CO	RC02	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X21 ..24	FP BUCHSENLEISTE 20POL. SOCKET CONNECTOR	FP 0580.9291.00	BERG_ELEKT	76325-...	

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	AVX	1206 5C 104 KA 3	
C4	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C5	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C6	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C7	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C8	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
C12	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	AVX	1206 5C 104 KA 3	
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	AVX	1206 5C 104 KA 3	
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	AMP	822274-1 IN STANGEN	
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 KM68257CJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	SAMSUNG	KM68257CJ-12	
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 KM68257CJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	SAMSUNG	KM68257CJ-12	
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 KM68257CJ12 32KX8 SRAM IC MEMORY NUR VAR/ONLY MOD: 04	0009.9846.00	SAMSUNG	KM68257CJ-12	
R1 ..10	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
R11	RG 0-OHM WIDERSTAND 1206 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	PHILIPS_CO	RC02	
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	PHILIPS_CO	RC02	

Kennz. 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	PHILIPS_CO	RC02	
R24	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	PHILIPS_CO	RC02	
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	

ROHDE&SCHWARZ

XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

el. Kennz.	Bauelement-Kennzeichen
Seite	Leiterplatten-Seite, auf der sich das Bauelement befindet
X/Y	Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt
Planq., Bl.	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 (in units of millimeters) 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

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
A61	B	88	99	5A	13
A62	B	241	113	4B	5
D19	B	60	50	8B	12
D20	B	34	112	1F	10
D20	B	34	112	2B	10
X1	B	88	99	6A	13
X2	B	144	142	5A	13

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
X3	B	39	9	8B	2
X4	B	167	10	5E	2
X10	B	14	125	2A	11
X11	B	63	120	4A	11
X12	B	20	72	7A	11
X21	B	239	122	4B	5
X22	B	218	53	5B	5

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
X23	B	267	48	4C	5
X24	B	253	33	5C	5
X30	B	13	107	8C	7
X61	B	132	11	7A	3
X62	B	262	11	7C	3
X601	B	230	123	1E	2

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
C1	A	137	30	3B	3
C2	B	223	58	4B	3
C3	A	232	68	5B	3
C4	A	238	64	4B	3
C5	A	41	16	2A	3
C6	B	26	20	3A	3
C7	B	139	17	2A	3
C8	B	26	11	3A	3
C9	B	127	32	3A	3
C10	A	44	30	3A	3
C11	A	47	30	4A	3
C12	A	140	30	2C	3
C13	B	142	30	2C	3
C14	A	144	30	1C	3
C15	B	224	65	3C	3
C16	A	220	64	4C	3
C17	A	220	67	4C	3
C18	A	161	30	3D	3
C19	B	222	98	4C	3
C20	A	230	88	5C	3
C21	A	148	30	2D	3
C22	A	151	30	1D	3
C23	B	149	36	2D	3
C24	A	220	70	4D	3
C25	B	224	72	3D	3
C26	A	220	74	4D	3
C27	B	224	80	3D	3
C28	A	220	78	4D	3
C29	B	134	30	2D	3
C30	A	272	17	3E	3
C31	A	220	81	4D	3
C32	A	129	30	2D	3
C33	A	240	91	3E	5
C34	A	198	33	6E	5
C35	A	203	58	6E	5
C36	A	209	86	2A	6
C37	A	202	74	2A	6
C38	A	192	74	2A	6
C39	A	200	103	2A	6
C40	A	204	98	3A	6
C41	A	176	104	3A	6
C42	A	175	93	3A	6
C43	A	120	75	6A	6
C44	A	259	97	4E	5
C45	A	120	86	6A	6
C46	A	128	90	6A	6
C47	A	138	90	6A	6
C48	A	149	89	6A	6
C49	A	149	68	6A	6
C50	A	149	58	6A	6
C51	A	243	83	4F	5
C52	A	246	93	3E	5
C53	A	248	87	3F	5
C54	A	263	92	4E	5
C55	A	266	87	4F	5
C56	A	193	65	6E	5
C57	A	171	43	6E	5
C58	B	68	124	1F	13
C59	A	97	104	3F	13
C60	A	78	101	3F	13
C61	A	66	101	4F	13
C62	B	91	123	4F	13
C63	A	75	105	5F	13
C64	B	79	123	5F	13
C65	B	125	135	3D	13
C66	B	119	137	4D	13
C67	A	121	137	4D	13
C68	B	110	128	3F	10
C69	A	71	123	1F	13
C70	A	86	123	2F	13
C71	A	104	123	2F	13
C72	A	104	108	3F	13
C73	A	73	30	6F	12
C74	A	65	60	5F	12
C75	A	59	47	8D	12
C76	A	36	65	5F	12
C77	A	36	36	4F	12
C78	B	29	113	1F	10
C79	A	46	100	7F	10
C80	A	168	133	1F	10
C81	A	185	130	2F	10
C82	B	138	106	4F	10
C83	A	163	129	4F	10
C84	A	163	109	5F	10
C85	A	148	100	5F	10
C86	B	145	124	6F	10
C87	A	127	106	6F	10
C88	A	89	64	1F	9
C89	A	80	92	5F	9
C90	A	132	74	7E	9
C91	A	174	60	7E	9
C92	A	181	104	8E	9
C93	A	180	89	8E	9
C94	A	197	50	9E	9
C95	A	164	70	9E	9
C96	A	148	42	9E	9
C97	A	194	89	10E	9
C98	A	197	38	10E	9
C99	A	100	84	2F	9
C100	A	128	39	11E	9
C101	A	182	33	11E	9
C102	A	76	72	2F	9
C103	A	198	109	3F	9
C104	A	179	108	3F	9
C105	A	143	74	3F	9
C106	A	130	61	4F	9
C107	A	114	86	4F	9
C108	A	86	83	4F	9
C109	B	29	104	1F	7
C110	A	42	100	5F	7
C111	A	34	72	6E	7
C112	A	29	91	6E	7
C113	A	47	72	6E	7
C114	A	55	66	6E	7
C115	A	53	66	6E	7
C116	A	28	7	2F	7
C117	A	30	23	2F	7
C118	A	18	7	3F	7
C119	A	32	57	3F	7
C120	A	25	87	4F	7
C121	A	50	69	4F	7
C122	B	259	34	4E	3
C123	A	47	69	5F	7
C124	A	155	72	1F	8
C125	A	96	43	5F	8
C126	A	96	63	5F	8
C127	A	121	37	6F	8
C128	A	143	39	6F	8
C129	A	203	91	7F	8
C130	A	107	66	7F	8
C131	A	141	61	8F	8
C132	A	155	86	1F	8
C133	A	103	49	2F	8
C134	B	103	34	2F	8
C135	A	192	109	3F	8
C136	A	172	108	3F	8
C137	A	201	130	4F	8
C138	A	103	82	4F	8
C139	A	95	67	4F	8
C140	B	269	42	4F	3
C141	A	88	105	5F	13
C142	B	154	52	5E	5
C143	B	206	65	5E	5
C144	B	148	138	6F	13
C145	B	15	66	4F	12
C146	A	165	86	12E	9
C147	B	168	33	5F	9
C148	B	175	141	5F	9
C149	B	149	97	6F	9
C150	B	58	106	6F	9
C151	B	107	95	7F	7
C152	B	95	33	7F	7
C153	B	167	110	8F	8
C154	B	166	104	8F	8
C155	B	15	113	7F	10
C156	B	78	98	8F	10
C157	A	262	83	4F	5
C158	B	226	88	2E	5
C159	B	219	90	2A	5
C160	A	93	118	8E	13
C161	B	110	111	3F	10
C162	B	155	84	2B	8
C163	B	130	113	6E	10
C164	B	168	115	4B	10
C165	B	110	126	4E	10
C166	B	171	140	6A	10
C167	B	144	108	8A	10
C168	B	146	114	8B	10
C169	B	133	115	9B	10
C170	A	52	127	2D	11
C171	A	65	120	2D	11
C172	A	80	35	8D	12
C173	A	88	54	8D	12
C174	A	71	62	8D	12
C175	B	35	31	5F	12
D1	B	113	127	3F	10
D1	B	113	127	5C	10
D2	B	202	36	10B	5
D2	B	202	36	6E	5
D2	B	202	36	7B	5
D3	B	175	88	2D	6
D4	B	135	61	5D	6
D5	B	72	126	1F	13
D5	B	72	126	2C	13
D5	B	72	126	7E	13
D5	B	72	126	7E	13
D5	B	72	126	7F	13
D6	A	66	125	1F	13
D6	A	66	125	3C	13
D7	A	79	125	2F	13
D7	A	79	125	8C	13
D8	A	96	125	2F	13
D8	A	96	125	8D	13
D9	A	96	110	3F	13
D9	A	96	110	8E	13
D10	A	69	107	1A	13
D10	A	69	107	2B	13
D10	A	69	107	2B	13
D10	A	69	107	2E	13
D10	A	69	107	5F	13
D10	A	69	107	8F	13
D10	A	69	107	9D	13
D11	B	83	125	10D	13
D11	B	83	125	11D	13
D11	B	83	125	5F	13
D12	B	90	104	3F	13
D12	B	90	104	8B	13
D13	B	75	104	3F	13
D13	B	75	104	9B	13
D14	B	104	104	11B	13
D14	B	104	104	4F	13
D15	B	97	125	10C	13
D15	B	97	125	4F	13
D16	A	76	57	10B	12
D16	A	76	57	6E	12
D17	A	68	33	10A	12
D17	A	68	33	6E	12
D18	B	51	50	3A	12
D18	B	51	50	4E	12
D21	A	52	97	2D	10
D21	A	52	97	2D	10
D21	A	52	97	2E	10

ROHDE & SCHWARZ	Benennung: *Designation:* EE DIGITAL_DOWN_CONVERTER	Sprache: *Lang.:* de	Blatt: *Sh.:* 2 +	Aei: *C.I.:* 15.00
Typ: *Type:* CMD	Datum: *Date:* 97–11–20	Abteilung: *Dpt:* 1CMK	Name: *Name:* NG	Sachnr.: *Part No.:* **1051.2407.01 XY**

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
D21	A	52	97	7A	10
D21	A	52	97	7F	10
D22	B	172	123	2F	10
D22	B	172	123	5A	10
D23	B	187	123	2F	10
D23	B	187	123	5B	10
D24	B	142	109	4F	10
D24	B	142	109	8A	10
D24	B	142	109	8A	10
D24	B	142	109	9A	10
D25	B	162	125	4F	10
D25	B	162	125	6B	10
D25	B	162	125	6C	10
D26	B	162	104	5F	10
D26	B	162	104	8B	10
D26	B	162	104	8C	10
D27	A	134	124	10B	10
D27	A	134	124	6F	10
D28	A	134	107	10C	10
D28	A	134	107	6F	10
D29	A	114	107	10D	10
D29	A	114	107	6F	10
D30	A	80	65	1E	9
D30	A	80	65	1F	9
D30	A	80	65	2B	9
D30	A	80	65	2E	9
D30	A	80	65	6A	9
D31	A	187	100	5E	9
D31	A	187	100	7E	9
D32	A	187	86	5D	9
D32	A	187	86	8E	9
D33	A	188	50	8D	9
D33	A	188	50	8E	9
D34	A	139	42	8B	9
D34	A	139	42	9E	9
D35	A	199	86	10E	9
D35	A	199	86	8A	9
D36	A	161	73	9A	9
D36	A	161	73	9E	9
D37	A	188	37	10E	9
D37	A	188	37	9D	9
D38	A	123	42	10E	9
D38	A	123	42	9B	9
D39	A	177	37	11D	9
D39	A	177	37	11E	9
D40	A	125	64	4F	9
D40	A	125	64	7A	9
D40	A	125	64	7B	9
D40	A	125	64	7C	9
D40	A	125	64	9A	9
D41	B	70	84	2B	9
D41	B	70	84	5F	9
D42	A	105	87	4C	9
D42	A	105	87	4F	9
D43	A	94	87	1F	9
D43	A	94	87	2C	9
D43	A	94	87	2C	9
D43	A	94	87	3B	9
D43	A	94	87	4B	9
D44	A	70	77	2F	9
D44	A	70	77	3B	9
D45	A	125	77	5A	9
D45	A	125	77	6E	9
D46	A	194	111	2F	9
D46	A	194	111	3D	9
D47	A	173	110	3F	9
D47	A	173	110	4D	9
D48	A	137	77	2E	9
D48	A	137	77	3F	9
D48	A	137	77	6B	9
D48	A	137	77	6B	9
D48	A	137	77	9B	9
D49	A	183	58	5B	9
D49	A	183	58	7E	9

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
D50	A	26	103	10D	7
D50	A	26	103	1B	7
D50	A	26	103	1E	7
D50	A	26	103	2A	7
D50	A	26	103	3B	7
D51	A	34	90	10B	7
D51	A	34	90	10C	7
D51	A	34	90	10C	7
D51	A	34	90	10D	7
D51	A	34	90	4E	7
D52	A	13	10	1A	7
D52	A	13	10	1A	7
D52	A	13	10	1B	7
D52	A	13	10	3D	7
D52	A	13	10	3E	7
D53	A	23	10	2D	7
D53	A	23	10	2E	7
D54	A	38	103	2C	7
D54	A	38	103	3A	7
D54	A	38	103	3B	7
D54	A	38	103	3C	7
D54	A	38	103	5E	7
D55	A	20	22	1C	7
D55	A	20	22	1C	7
D55	A	20	22	1C	7
D55	A	20	22	2E	7
D55	A	20	22	3C	7
D55	A	20	22	3D	7
D55	A	20	22	7B	7
D56	A	40	53	3E	7
D56	A	40	53	4D	7
D57	A	54	86	4A	7
D57	A	54	86	4E	7
D58	A	38	86	4B	7
D58	A	38	86	5E	7
D59	A	83	107	2A	13
D59	A	83	107	5F	13
D59	A	83	107	6F	13
D60	B	29	85	6E	7
D60	B	29	85	8A	7
D61	B	169	86	1F	8
D61	B	169	86	2A	8
D62	B	131	39	10C	8
D62	B	131	39	6F	8
D63	B	147	39	10B	8
D63	B	147	39	6F	8
D64	A	102	69	11B	8
D64	A	102	69	11B	8
D64	A	102	69	2C	8
D64	A	102	69	2D	8
D64	A	102	69	7F	8
D65	A	137	64	11B	8
D65	A	137	64	3C	8
D65	A	137	64	3D	8
D65	A	137	64	3D	8
D65	A	137	64	3D	8
D65	A	137	64	4C	8
D65	A	137	64	8F	8
D66	A	193	91	11B	8
D66	A	193	91	11C	8
D66	A	193	91	11C	8
D66	A	193	91	11C	8
D66	A	193	91	7F	8
D67	A	110	43	5F	8
D67	A	110	43	8B	8
D68	A	110	63	5F	8
D68	A	110	63	8C	8
D69	B	169	72	1F	8
D69	B	169	72	2B	8
D70	B	110	36	2F	8
D70	B	110	36	3A	8
D71	B	110	51	2F	8
D71	B	110	51	3B	8
D72	B	205	111	3F	8

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
D72	B	205	111	4A	8
D73	B	181	109	3F	8
D73	B	181	109	4B	8
D74	B	208	129	4C	8
D74	B	208	129	4F	8
D75	B	110	80	4F	8
D75	B	110	80	5A	8
D76	B	110	66	5B	8
D76	B	110	66	5F	8
D77	A	161	88	11B	9
D77	A	161	88	11B	9
D77	A	161	88	11E	9
D78	B	113	112	3F	10
D78	B	113	112	5D	10
K1	B	232	115	2B	5
K1	B	232	115	2B	5
K1	B	232	115	3A	5
L1	A	136	37	3B	3
L2	A	240	58	4B	3
L3	A	144	33	3C	3
L4	A	140	33	3C	3
L5	A	154	30	3C	3
L6	A	152	33	3D	3
L7	A	148	33	3D	3
L8	A	130	33	3D	3
L9	A	126	33	3D	3
L10	A	244	58	4B	3
N1	B	267	33	3E	3
N1	B	267	33	4E	3
N2	B	239	87	2C	5
N2	B	239	87	3E	5
N3	B	256	87	2D	5
N3	B	256	87	4E	5
P1	B	149	123	3D	13
P2	B	65	30	6C	12
P3	B	63	30	6C	12
P5	B	37	128	4B	10
P6	B	39	128	4B	10
P7	B	42	128	4B	10
R1	A	217	59	3B	3
R2	B	232	58	3B	3
R3	A	228	65	4B	3
R4	A	217	57	3B	3
R5	A	247	61	4B	3
R6	A	217	96	3C	3
R7	A	221	98	3C	3
R8	A	226	91	4C	3
R9	A	217	93	4D	3
R10	A	217	91	4D	3
R11	B	266	39	3E	3
R12	A	266	20	3E	3
R13	B	248	84	2C	5
R14	B	262	81	1D	5
R15	B	226	101	1B	5
R16	B	264	84	2D	5
R17	B	229	79	1E	5
R18	A	224	36	5C	5
R19	B	223	36	5C	5
R20	A	224	38	5C	5
R21	B	223	38	5C	5
R22	A	224	41	5C	5
R23	B	223	41	5C	5
R24	B	216	87	2A	5
R25	A	224	43	6C	5
R26	B	223	43	6C	5
R27	A	224	46	6C	5
R28	B	223	46	6C	5
R29	A	224	48	6C	5
R30	B	223	48	6C	5
R31	A	224	51	6C	5
R32	B	223	51	6C	5
R33	A	224	53	6C	5
R34	B	223	53	6C	5
R35	B	237	104	2C	5

ROHDE & SCHWARZ

Benennung: EE DIGITAL_DOWN_CONVERTER
Designation:

Sprache: *Lang.:* de

Blatt: *Sh.:* 3 +

Aei: *C.I.:* 15.00

Typ: *Type:* CMD

Datum: *Date:* 97–11–20

Abteilung: *Dpt:* 1CMK

Name: *Name:* NG

Sachnr.: *Part No.:* **1051.2407.01 XY**

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R36	B	231	88	2E	5
R37	B	18	105	7B	11
R38	A	20	65	3D	12
R39	B	235	35	5D	5
R40	A	235	36	5D	5
R41	B	237	35	5D	5
R42	A	237	36	5D	5
R43	B	240	35	5D	5
R44	A	240	36	5D	5
R45	B	243	35	6D	5
R46	B	245	88	2C	5
R47	A	243	36	6D	5
R48	B	245	35	6D	5
R49	A	245	36	6D	5
R50	B	253	35	6D	5
R51	A	248	36	6D	5
R52	A	250	36	6D	5
R53	B	250	35	6D	5
R54	A	253	36	6D	5
R55	B	248	35	6D	5
R56	A	181	65	6E	5
R57	B	248	91	2C	5
R58	A	168	62	8B	5
R59	A	168	60	8B	5
R60	B	166	65	8B	5
R61	B	164	65	8B	5
R62	B	161	67	8B	5
R63	B	161	65	8B	5
R64	B	161	63	8B	5
R65	B	161	61	8B	5
R66	B	161	59	8B	5
R67	B	161	57	8C	5
R68	B	245	81	1C	5
R69	B	161	55	8C	5
R70	B	161	53	8C	5
R71	B	161	51	8C	5
R72	B	161	50	8C	5
R73	B	161	48	8C	5
R74	B	161	46	8C	5
R75	B	161	44	8C	5
R76	B	161	42	8C	5
R77	B	26	118	2B	10
R78	B	51	117	2A	11
R79	B	258	96	2D	5
R80	A	79	27	10A	12
R81	A	77	27	10B	12
R82	B	161	40	8C	5
R83	B	161	38	8C	5
R84	B	161	36	8C	5
R85	B	161	34	8C	5
R86	B	161	32	8C	5
R87	B	161	30	8D	5
R88	B	161	29	8D	5
R89	B	142	55	8D	5
R90	B	262	88	2D	5
R91	B	140	55	8D	5
R92	B	138	55	8D	5
R93	B	136	55	8D	5
R94	B	134	55	8D	5
R95	B	132	55	8D	5
R96	B	130	55	8D	5
R97	B	128	55	8D	5
R98	B	126	55	8D	5
R99	A	60	58	8C	12
R100	B	202	109	4D	6
R101	B	201	109	4D	6
R102	B	195	125	4D	6
R103	B	197	125	4D	6
R104	B	199	125	4D	6
R105	B	201	125	4D	6
R106	B	188	121	3B	6
R107	B	187	121	3B	6
R108	B	187	119	3B	6
R109	B	187	117	3B	6
R110	B	187	115	4B	6
R111	B	187	113	4B	6
R112	B	187	111	4B	6
R113	B	187	109	4B	6
R114	B	207	126	4B	6
R115	B	209	126	4B	6
R116	B	205	126	4B	6
R117	B	203	126	4B	6
R118	B	131	95	7D	6
R119	B	129	95	7D	6
R120	B	127	95	7D	6
R121	B	125	95	7D	6
R122	B	123	95	7D	6
R123	B	121	95	7D	6
R124	B	115	91	7D	6
R125	B	115	90	7D	6
R126	B	115	88	8D	6
R127	B	115	86	8D	6
R128	B	115	84	8D	6
R129	B	115	82	8D	6
R130	B	113	59	7B	6
R131	B	113	61	7B	6
R132	B	113	63	7B	6
R133	B	113	65	7B	6
R134	B	113	67	7B	6
R135	B	113	69	7B	6
R136	B	113	70	7B	6
R137	B	113	72	7B	6
R138	B	113	74	8B	6
R139	B	113	76	8B	6
R140	B	113	78	8B	6
R141	B	113	80	8B	6
R142	A	178	71	1C	6
R143	A	157	64	5C	6
R144	A	208	67	2C	6
R145	A	205	67	2D	6
R146	A	157	67	5C	6
R147	A	138	95	5C	6
R148	A	118	55	5D	6
R149	A	169	68	7B	5
R150	B	265	91	2D	5
R151	B	58	90	10D	7
R152	B	58	92	10D	7
R153	A	201	65	10B	5
R154	A	166	65	11C	5
R155	B	207	108	3D	6
R156	B	207	110	3D	6
R157	B	207	112	3D	6
R158	B	207	117	3D	6
R159	B	207	119	4D	6
R160	B	207	121	4D	6
R161	A	62	143	2C	13
R162	A	62	128	2B	13
R163	A	60	128	2C	13
R164	A	55	128	2D	13
R165	A	57	128	2C	13
R166	B	132	104	7E	13
R167	B	130	104	7E	13
R168	A	77	141	8C	13
R169	A	80	141	8C	13
R170	A	83	141	8C	13
R171	B	109	135	8E	13
R172	B	106	135	8E	13
R173	B	88	140	10C	13
R174	A	88	137	10C	13
R175	A	91	137	10C	13
R176	A	93	137	10C	13
R177	B	93	140	10C	13
R178	B	90	140	10C	13
R179	B	102	126	11C	13
R180	B	102	129	11C	13
R181	B	83	137	11D	13
R182	B	131	137	3D	13
R183	B	85	137	11E	13
R184	A	85	137	12E	13
R185	B	77	140	10D	13
R186	B	80	137	10E	13
R187	B	75	140	10D	13
R188	A	131	138	4C	13
R189	A	131	135	4C	13
R190	B	104	132	4E	13
R191	B	95	137	4E	13
R192	B	101	132	4E	13
R193	B	61	128	2D	13
R194	B	48	28	3C	12
R195	B	45	28	3B	12
R196	A	29	57	5C	12
R197	A	27	57	3C	12
R198	B	50	28	3C	12
R199	A	44	57	3D	12
R200	A	41	57	3D	12
R201	A	39	57	3D	12
R202	B	17	61	4A	12
R203	B	17	58	4A	12
R204	B	17	56	4B	12
R205	B	17	53	4B	12
R206	B	17	51	4B	12
R207	B	17	48	4B	12
R208	B	17	46	4B	12
R209	B	17	43	4B	12
R210	B	17	41	4B	12
R211	A	28	36	6B	12
R212	A	44	36	6B	12
R213	A	22	58	5B	12
R214	A	56	32	6B	12
R215	A	72	68	7A	12
R216	A	74	68	7A	12
R217	A	77	68	7B	12
R218	A	69	68	7D	12
R219	A	84	60	10C	12
R220	A	84	58	10C	12
R221	A	84	55	10C	12
R222	A	84	53	10C	12
R223	A	84	50	10C	12
R224	A	84	48	10C	12
R225	A	84	45	10C	12
R226	A	84	43	10C	12
R227	B	23	28	2A	12
R228	B	28	30	2A	12
R229	B	30	31	2B	12
R230	B	25	28	2B	12
R231	B	54	102	2B	10
R232	A	153	139	6D	10
R233	A	153	118	8D	10
R234	A	163	118	8D	10
R235	A	60	63	8C	12
R236	A	178	134	5A	10
R237	A	170	141	5A	10
R238	A	119	126	5C	10
R239	A	121	129	5C	10
R240	A	192	134	5B	10
R241	B	141	119	9A	10
R242	B	54	105	2B	10
R243	B	54	107	2B	10
R244	B	50	112	2C	10
R245	B	13	121	2C	10
R246	A	51	116	3B	10
R247	A	37	117	3B	10
R248	A	41	120	3B	10
R249	A	163	139	6D	10
R250	B	87	70	2B	9
R251	A	76	74	3B	9
R252	A	129	74	5A	9
R253	A	174	53	5B	9
R254	A	194	103	5E	9
R255	A	209	84	5C	9
R256	A	197	61	8C	9
R257	A	153	49	8B	9

ROHDE & SCHWARZ

Benennung: EE DIGITAL_DOWN_CONVERTER
Designation:

Sprache: *Lang.:* de

Blatt: *Sh.:* 4 +

Aei: *C.I.:* 15.00

Typ: *Type:* CMD

Datum: *Date:* 97–11–20

Abteilung: *Dpt:* 1CMK

Name: *Name:* NG

Sachnr.: *Part No.:* **1051.2407.01 XY**

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R258	A	209	81	8A	9
R259	A	197	47	9C	9
R260	A	116	51	9B	9
R261	B	85	70	2B	9
R262	A	181	74	9A	9
R263	A	167	29	10C	9
R264	B	119	97	3A	9
R265	A	185	127	4E	9
R266	A	175	127	4E	9
R267	A	167	127	4E	9
R268	A	170	127	4E	9
R269	A	172	127	4E	9
R270	A	177	127	4D	9
R271	A	182	127	4D	9
R272	B	83	70	2B	9
R273	A	180	127	4D	9
R274	B	72	99	2C	9
R275	B	70	99	2C	9
R276	A	75	97	2C	9
R277	A	96	84	2C	9
R278	A	96	82	2C	9
R279	A	84	96	2C	9
R280	A	206	127	2D	9
R281	A	204	127	2D	9
R282	A	201	127	2D	9
R283	B	77	70	2B	9
R284	A	199	127	2D	9
R285	A	189	127	2D	9
R286	A	191	127	3D	9
R287	A	194	127	3D	9
R288	A	196	127	3D	9
R289	A	205	114	2E	9
R290	A	95	73	1E	9
R291	B	16	121	2B	10
R292	A	149	78	2E	9
R293	B	75	70	2B	9
R294	B	74	70	2B	9
R295	B	72	70	2B	9
R296	B	66	71	2B	9
R297	A	96	79	4B	9
R298	A	46	52	4D	7
R299	A	13	43	6D	7
R300	A	13	41	6D	7
R301	A	13	38	6D	7
R302	A	13	36	6D	7
R303	A	56	102	8A	7
R304	A	13	70	8A	7
R305	A	13	95	8C	7
R306	A	13	92	8C	7
R307	A	13	90	8C	7
R308	A	13	87	8C	7
R309	B	30	12	3D	7
R310	A	13	84	8D	7
R311	A	13	82	8D	7
R312	B	17	92	10C	7
R313	B	17	90	10C	7
R314	B	17	87	10C	7
R315	B	17	84	10C	7
R316	B	17	82	10B	7
R317	A	16	20	1B	7
R318	B	29	108	1B	7
R319	A	16	23	1D	7
R320	A	78	114	2B	13
R321	A	32	30	2C	7
R322	A	56	104	8A	7
R323	B	17	95	10D	7
R324	B	30	17	3D	7
R325	A	13	51	5D	7
R326	A	13	48	5D	7
R327	A	13	46	6D	7
R328	A	205	139	1A	8
R329	B	16	118	2B	10
R330	B	13	118	2C	10
R331	B	228	117	3B	5
R332	A	184	138	5B	10
R333	B	134	121	5E	10
R334	B	131	123	5D	10
R335	A	56	92	3D	10
R336	A	56	95	3D	10
R337	A	56	90	3E	10
R338	A	56	97	8A	10
R339	A	203	139	2A	8
R340	B	134	111	9A	10
R341	B	134	113	9A	10
R342	B	134	116	10A	10
R343	B	77	31	8C	12
R344	B	109	117	9E	13
R345	B	109	119	9E	13
R346	B	109	120	9E	13
R347	A	78	110	2B	13
R348	A	118	136	4C	13
R349	A	116	136	4C	13
R350	A	197	139	2A	8
R351	A	114	136	4C	13
R352	A	112	136	4C	13
R353	A	110	136	4C	13
R354	B	111	137	4C	13
R355	B	110	137	4C	13
R356	B	105	137	4C	13
R357	B	107	137	4C	13
R358	B	134	97	6E	13
R359	B	136	104	6E	13
R360	A	110	125	9D	13
R361	A	200	139	2A	8
R362	A	110	127	9D	13
R363	A	110	129	9D	13
R364	A	208	139	4D	8
R365	A	117	42	8A	8
R366	A	189	98	11D	8
R367	A	190	96	11D	8
R368	A	205	89	11D	8
R369	A	134	67	3D	8
R370	A	107	79	2D	8
R371	A	110	132	9D	13
R372	A	100	137	9D	13
R373	A	44	69	3B	12
R374	A	41	69	3B	12
R375	A	69	101	8F	13
R376	A	65	143	7F	13
R377	A	81	101	2A	13
R378	A	81	98	6E	13
R379	B	68	99	2C	9
R380	A	155	92	11B	9
R381	A	164	104	10B	9
R382	A	166	104	10B	9
R383	A	161	104	10B	9
R384	A	69	9	9A	2
R385	B	100	123	8D	13
R386	A	39	69	3B	12
V1	A	229	58	4B	3
V2	B	227	98	4C	3
V3	B	223	88	2A	5
V4	B	238	81	1C	5
V5	A	237	81	1D	5
V6	B	255	81	1D	5
V7	A	253	81	1E	5
V8	B	217	93	2A	5
V9	B	233	82	2E	5
V10	B	242	81	1C	5
V11	B	259	81	1D	5
X5	B	62	137	2C	13
X6	B	60	137	2C	13
X7	B	57	137	2D	13
X8	B	55	137	2D	13
X9	B	51	130	3D	13
Z1	B	39	19	2A	3

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						

ROHDE & SCHWARZ	ÄI	Datum / Date	XY-Liste für / XY-list for	Sach-Nummer / Stock-Nr	Blatt / Page
	02	17.12.94	EE DITHER_UNIT	1051.2859.01 XY	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	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						

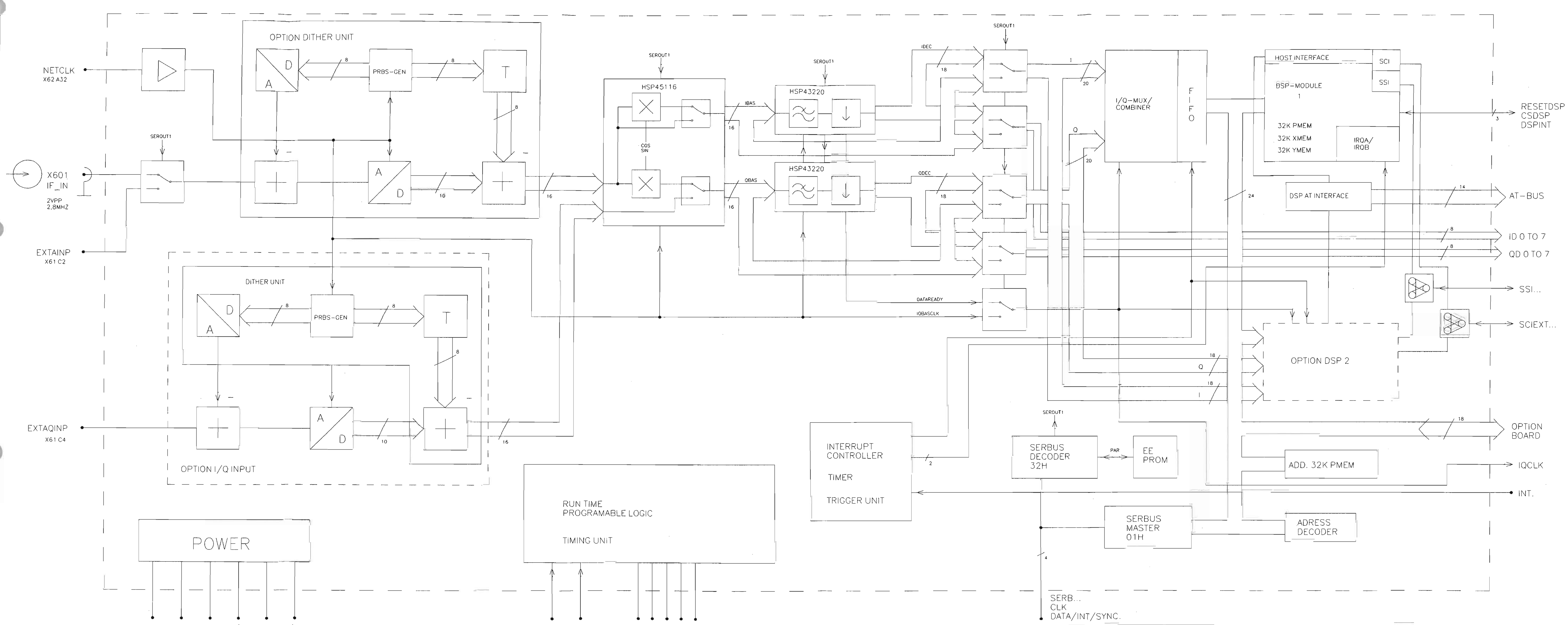
ROHDE&SCHWARZ

Stromläufe
Bestückungspläne

Circuit diagrams
Component plans

Schémas de circuit
Plans des composants

095.1000 Bl. 4



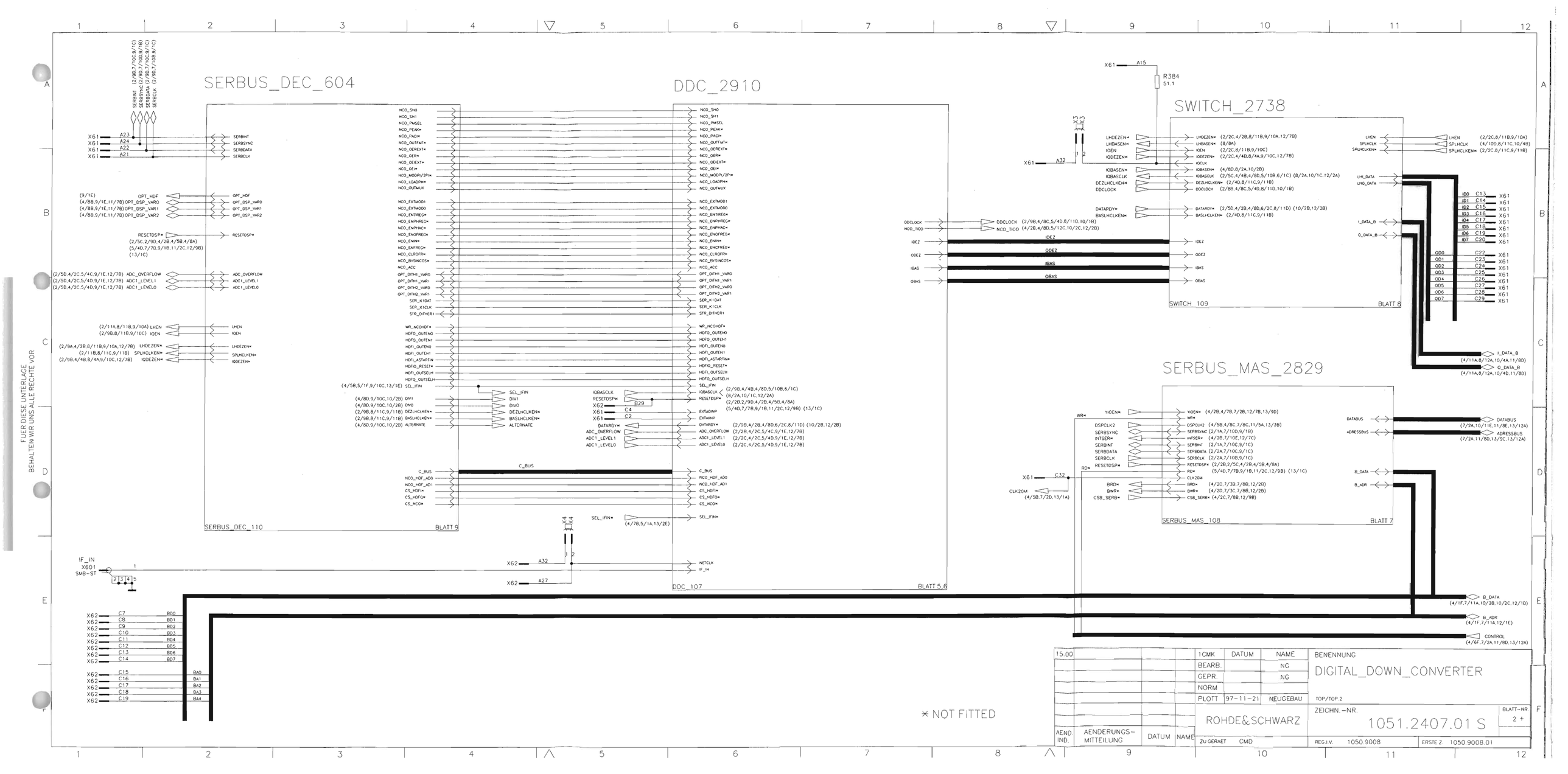
ACHTUNG: EGB
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

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

1CMK	DATUM	NAME	BENENNUNG
BEARB		NG	DIGITAL_DOWN_CONVERTER
GEPR		NG	
NORM			TOP/TOP.1
PLOTT	97-11-21	NEUGEBAU	ZEICHN.-NR. 1051.2407.01 S — BLATT-NR 1 +
ROHDE&SCHWARZ			
ZU GERAET	CMD		REG.I.V. 1050.9008 — ERSTE Z. 1050.9008.01

15.00
AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME


SERBUS_DEC_604
DDC_2910
SWITCH_2738
SERBUS_MAS_2829
SERBUS_DEC_110
BLATT 9
DDC_107
BLATT 5,6
SWITCH_109
BLATT 8
SERBUS_MAS_108
BLATT 7
R384
51.1
NOT FITTED
DIGITAL_DOWN_CONVERTER
ROHDE&SCHWARZ
1051.2407.01 S
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

+5.2V
X61 A6
X61 A7
X61 B6
X61 B7

C5 220N
C7 220U 6V3
Z1 65DB
Schirm-wand
C6 220U 6V3
C8 220U 6V3
C9 220U 6V3
C10 220N
C11 220N
+5VD

+7V
R5 0
L10 1U
L2 1U
R4 0 *
C4 100N

+15.3V
X61 A11
X61 B9

L1 1U
C1 100N
R1 750
R2 475
C2 10U 16V
V1 BCP68-16
R3 0
C3 100N
+5VA

L3 10U
L4 10U
C14 220N
C12 220N
C13 47U 16V
C15 47U 16V
C17 220N
C16 220N
+15V

-15.3V
X61 A4
X61 B4

L5 1U
-15.3VA
R6 750
R7 475
C19 10U 16V
V2 BCP69-25
R8 0
C20 100N
-5VA

R9 82.5
R10 82.5
C18 100N

L6 10U
L7 10U
C22 220N
C21 220N
C23 47U 16V
C25 47U 16V
C26 220N
C24 220N
-15V

+7.7V
X61 B11

L8 10U
L9 10U
C32 220N
C29 47U 16V
C27 47U 16V
C31 220N
C28 220N
+7V

R11
N1 OP07CS8
+5VREF
X61 A2
R12 100
C30 100N
+5VREFA

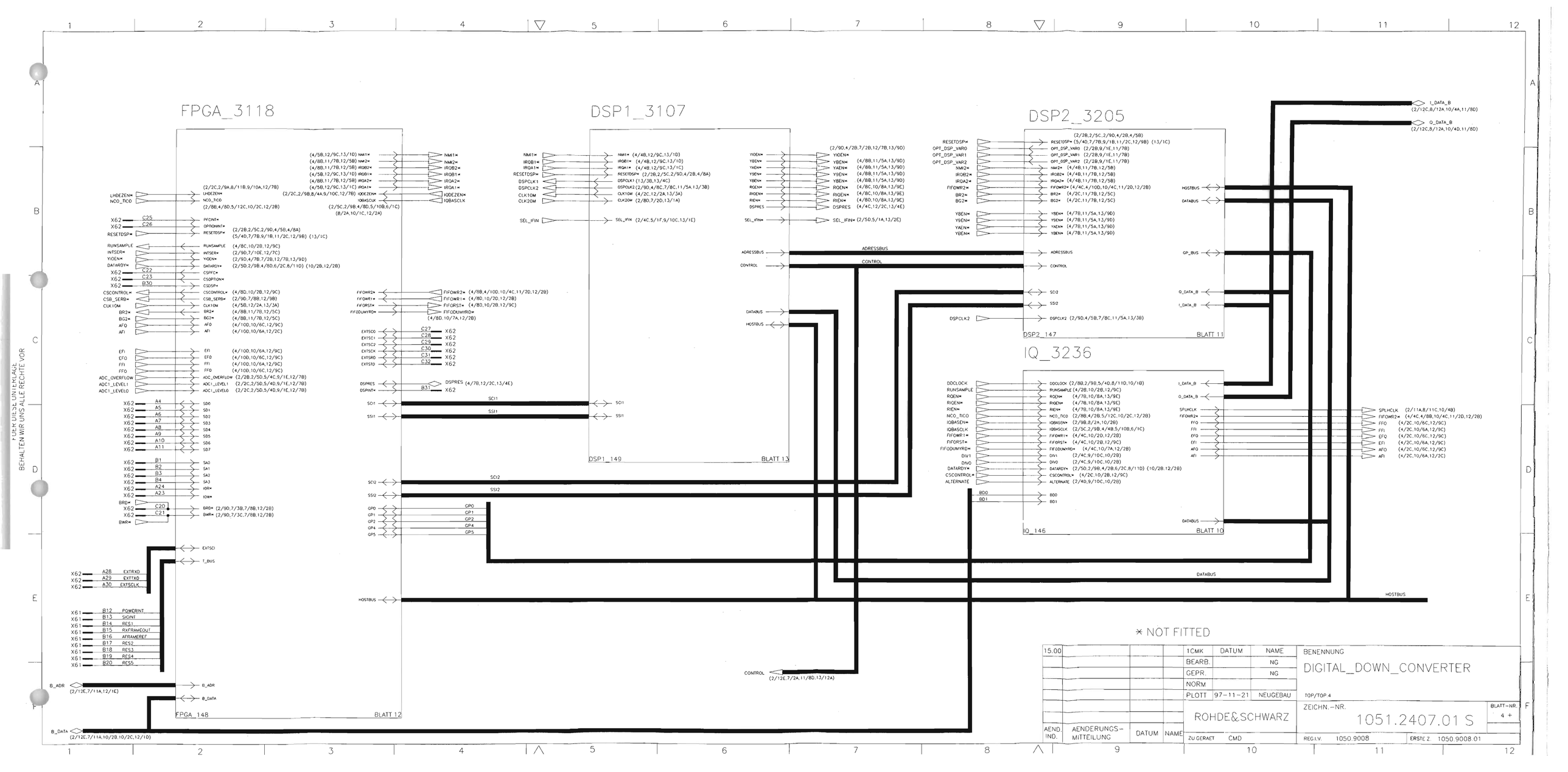
+15V
C122 100N
N1 OP07CS8
C140 100N
-15V

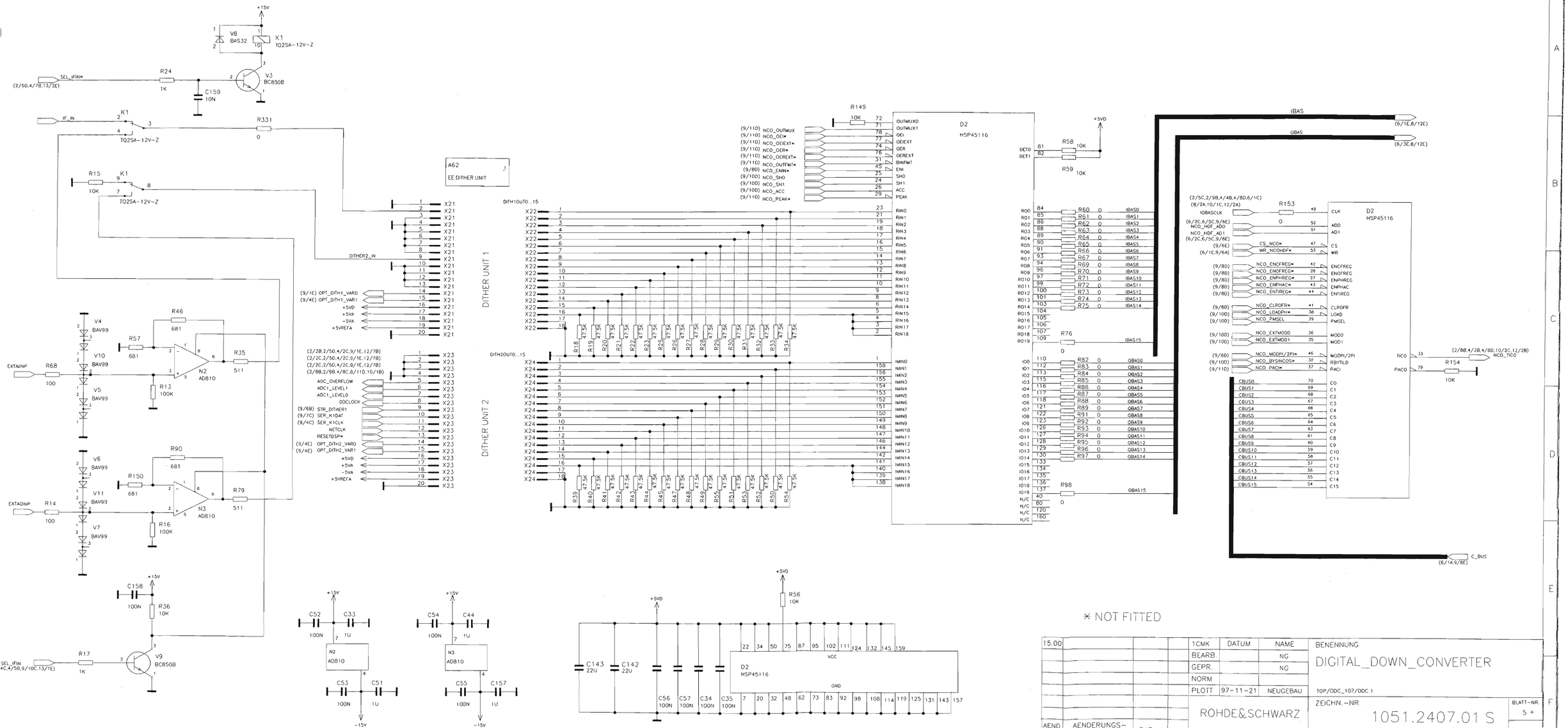
X61: A1, A3, A5, A9, A10, A12, A13, A14, A16, A25, A27, A29, A31, B1, B3, B5, B8, B10, B23, C1, C3, C5, C12, C21, C31

X62: A1, A3, A12, A22, A25, A31, B5, B28, B32

* NOT FITTED

15.00				1CMK	DATUM	NAME	BENENNUNG	
				BEARB.		NG	DIGITAL_DOWN_CONVERTER	
				GEPR.		NG		
				NORM				
				PLOTT	97-11-21	NEUGEBAU	TOP/TOP.3	
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2407.01 S	BLATT-NR. 3 +
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			REG.I.V. 1050.9008	ERSTE Z. 1050.9008.01





15.00				1CMK	DATUM	NAME	BENENNUNG
				BEARB.		NG	DIGITAL_DOWN_CONVERTER
				GEPR.		NG	
				NORM			TOP/DDC_107/DDC 1
				PLOTT	97-11-21	NEUGEBAU	
				ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2407.01 S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET CMD			BLATT-NR. 5 +
						REG.I.V. 1050.9008	ERSTE Z. 1050.9008.01

(5/11E,9/8E)
C_BUS
HDFIQ_RESET*
(9/8B)

C36 C37 C38 C39 C40 C41 C42
100N 100N 100N 100N 100N 100N 100N
+5VD
13 28 42 45 60 75 78
VCC

CBUS15 21 C_BUS 15
CBUS14 22 C_BUS 14
CBUS13 23 C_BUS 13
CBUS12 24 C_BUS 12
CBUS11 25 C_BUS 11
CBUS10 26 C_BUS 10
CBUS9 27 C_BUS 9
CBUS8 30 C_BUS 8
CBUS7 31 C_BUS 7
CBUS6 32 C_BUS 6
CBUS5 33 C_BUS 5
CBUS4 34 C_BUS 4
CBUS3 35 C_BUS 3
CBUS2 36 C_BUS 2
CBUS1 37 C_BUS 1
CBUS0 38 C_BUS 0

+5VD — R142 0 — (9/8B) HDFI_ASTARTIN*
12 \STARTOUT
14 \STARTIN
15 \ASTARTIN
16 \RESET
(5/10B,6/5C,9/6E) NCO_HDF_AD1 — 17 A1
(5/10B,6/5C,9/6E) NCO_HDF_AD0 — 18 A0
19 \WR
(9/6E) CS_HDFI* — 20 \CS

(9/8A) HDFI_OUTSELH — 39 OUT_SELH
(9/8A) HDFI_OUTENO — 40 \OUT_ENP
IOBASCLK (9/8A) HDFI_OUTEN1 — R144 0 — 41 \OUT_ENX
44 FIR_CK
DATARDY* — 47 DATA_RDY

IBAS0 10 DATA_IN 0
IBAS1 9 DATA_IN 1
IBAS2 8 DATA_IN 2
IBAS3 7 DATA_IN 3
IBAS4 6 DATA_IN 4
IBAS5 5 DATA_IN 5
IBAS6 4 DATA_IN 6
IBAS7 3 DATA_IN 7
IBAS8 2 DATA_IN 8
IBAS9 1 DATA_IN 9
IBAS10 84 DATA_IN 10
IBAS11 83 DATA_IN 11
IBAS12 82 DATA_IN 12
IBAS13 81 DATA_IN 13
IBAS14 80 DATA_IN 14
IBAS15 79 DATA_IN 15
76 CK_IN

R145 0

GND
11 29 43 46 61 74 77

D3
HSP43220

DATA_OUT0 73 IDEZ0
DATA_OUT1 72 IDEZ1
DATA_OUT2 71 IDEZ2
DATA_OUT3 70 IDEZ3
DATA_OUT4 69 IDEZ4
DATA_OUT5 68 IDEZ5
DATA_OUT6 67 IDEZ6
DATA_OUT7 66 IDEZ7
DATA_OUT8 65 IDEZ8
DATA_OUT9 64 IDEZ9
DATA_OUT10 63 IDEZ10
DATA_OUT11 62 IDEZ11
DATA_OUT12 59 IDEZ12
DATA_OUT13 58 IDEZ13
DATA_OUT14 57 IDEZ14
DATA_OUT15 56 IDEZ15
DATA_OUT16 55 IDEZ16
DATA_OUT17 54 IDEZ17
DATA_OUT18 53 IDEZ18
DATA_OUT19 52 IDEZ19
DATA_OUT20 51 IDEZ20
DATA_OUT21 50 IDEZ21
DATA_OUT22 49 IDEZ22
DATA_OUT23 48 IDEZ23

+5VD
R106 R107 R108 R109 R110 R111 R112 R113 R114 R115 R116 R117 47K
R155 R156 R157 R158 R159 R160 R100 R101 R102 R103 R104 R105 47K
+5VD

IDEZ
(8/12E)

IBAS
(5/11B,8/12E)

QBAS
(5/11B,8/12E)

QDEZ
(8/12E)

WR_NCOHDF*
(5/10C,9/6A)

C43 C45 C46 C47 C48 C49 C50
100N 100N 100N 100N 100N 100N 100N
+5VD
13 28 42 45 60 75 78
VCC

CBUS15 21 C_BUS 15
CBUS14 22 C_BUS 14
CBUS13 23 C_BUS 13
CBUS12 24 C_BUS 12
CBUS11 25 C_BUS 11
CBUS10 26 C_BUS 10
CBUS9 27 C_BUS 9
CBUS8 30 C_BUS 8
CBUS7 31 C_BUS 7
CBUS6 32 C_BUS 6
CBUS5 33 C_BUS 5
CBUS4 34 C_BUS 4
CBUS3 35 C_BUS 3
CBUS2 36 C_BUS 2
CBUS1 37 C_BUS 1
CBUS0 38 C_BUS 0

+5VD — R143 0 — R146 0 — (5/10B,6/2C,9/6E)
12 \STARTOUT
14 \STARTIN
15 \ASTARTIN
16 \RESET
NCO_HDF_AD1 — 17 A1
NCO_HDF_AD0 — 18 A0
(5/10B,6/2C,9/6E) — 19 \WR
CS_HDFQ* — 20 \CS
(9/6E)

(9/8C) HDFQ_OUTSELH — 39 OUT_SELH
(9/8C) HDFQ_OUTENO — 40 \OUT_ENP
(9/8C) HDFQ_OUTEN1 — 41 \OUT_ENX
44 FIR_CK
R147 0 — 47 DATA_RDY

QBAS0 10 DATA_IN 0
QBAS1 9 DATA_IN 1
QBAS2 8 DATA_IN 2
QBAS3 7 DATA_IN 3
QBAS4 6 DATA_IN 4
QBAS5 5 DATA_IN 5
QBAS6 4 DATA_IN 6
QBAS7 3 DATA_IN 7
QBAS8 2 DATA_IN 8
QBAS9 1 DATA_IN 9
QBAS10 84 DATA_IN 10
QBAS11 83 DATA_IN 11
QBAS12 82 DATA_IN 12
QBAS13 81 DATA_IN 13
QBAS14 80 DATA_IN 14
QBAS15 79 DATA_IN 15
76 CK_IN

R148 0

GND
11 29 43 46 61 74 77

D4
HSP43220

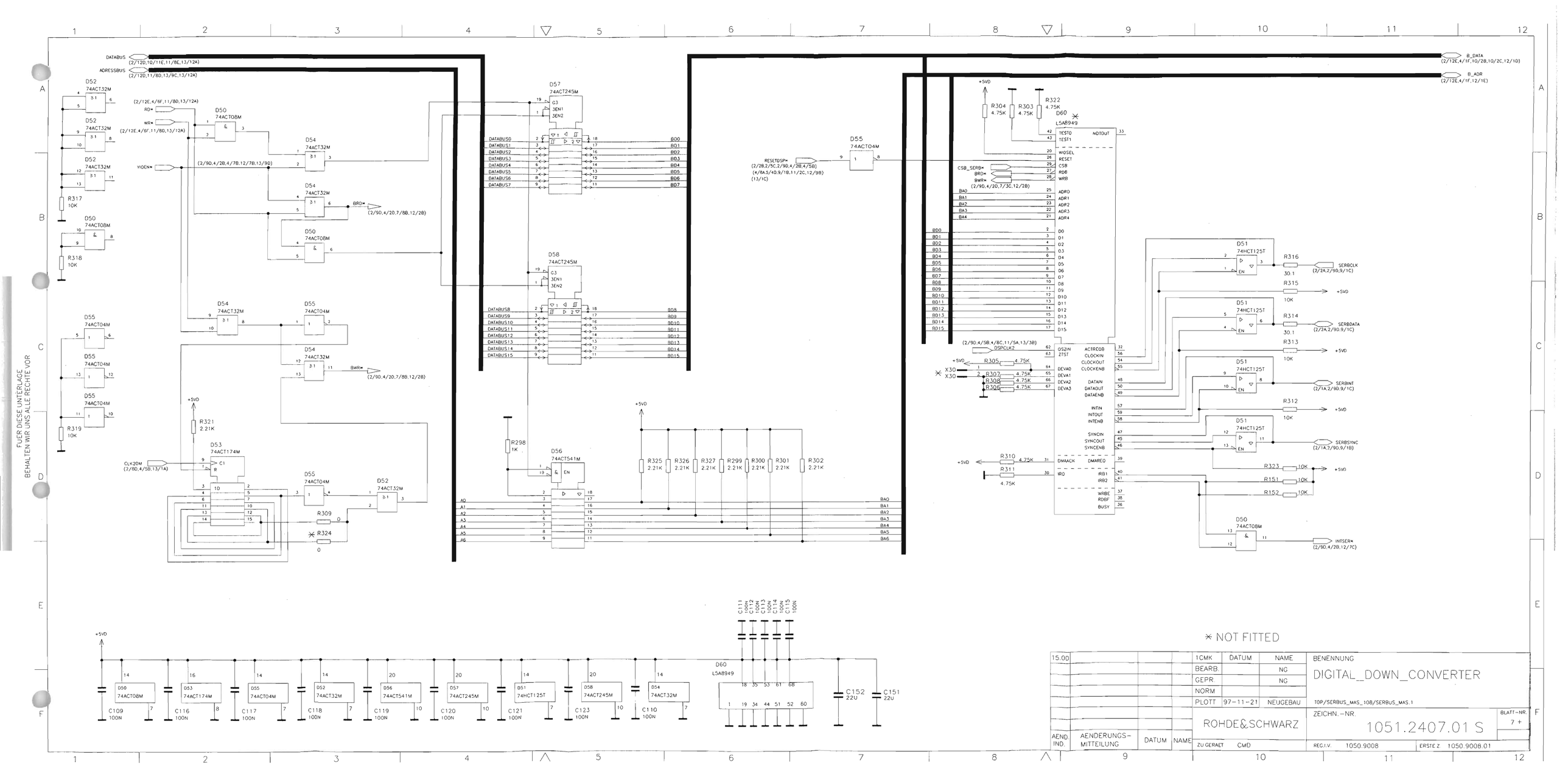
DATA_OUT0 73 QDEZ0
DATA_OUT1 72 QDEZ1
DATA_OUT2 71 QDEZ2
DATA_OUT3 70 QDEZ3
DATA_OUT4 69 QDEZ4
DATA_OUT5 68 QDEZ5
DATA_OUT6 67 QDEZ6
DATA_OUT7 66 QDEZ7
DATA_OUT8 65 QDEZ8
DATA_OUT9 64 QDEZ9
DATA_OUT10 63 QDEZ10
DATA_OUT11 62 QDEZ11
DATA_OUT12 59 QDEZ12
DATA_OUT13 58 QDEZ13
DATA_OUT14 57 QDEZ14
DATA_OUT15 56 QDEZ15
DATA_OUT16 55 QDEZ16
DATA_OUT17 54 QDEZ17
DATA_OUT18 53 QDEZ18
DATA_OUT19 52 QDEZ19
DATA_OUT20 51 QDEZ20
DATA_OUT21 50 QDEZ21
DATA_OUT22 49 QDEZ22
DATA_OUT23 48 QDEZ23

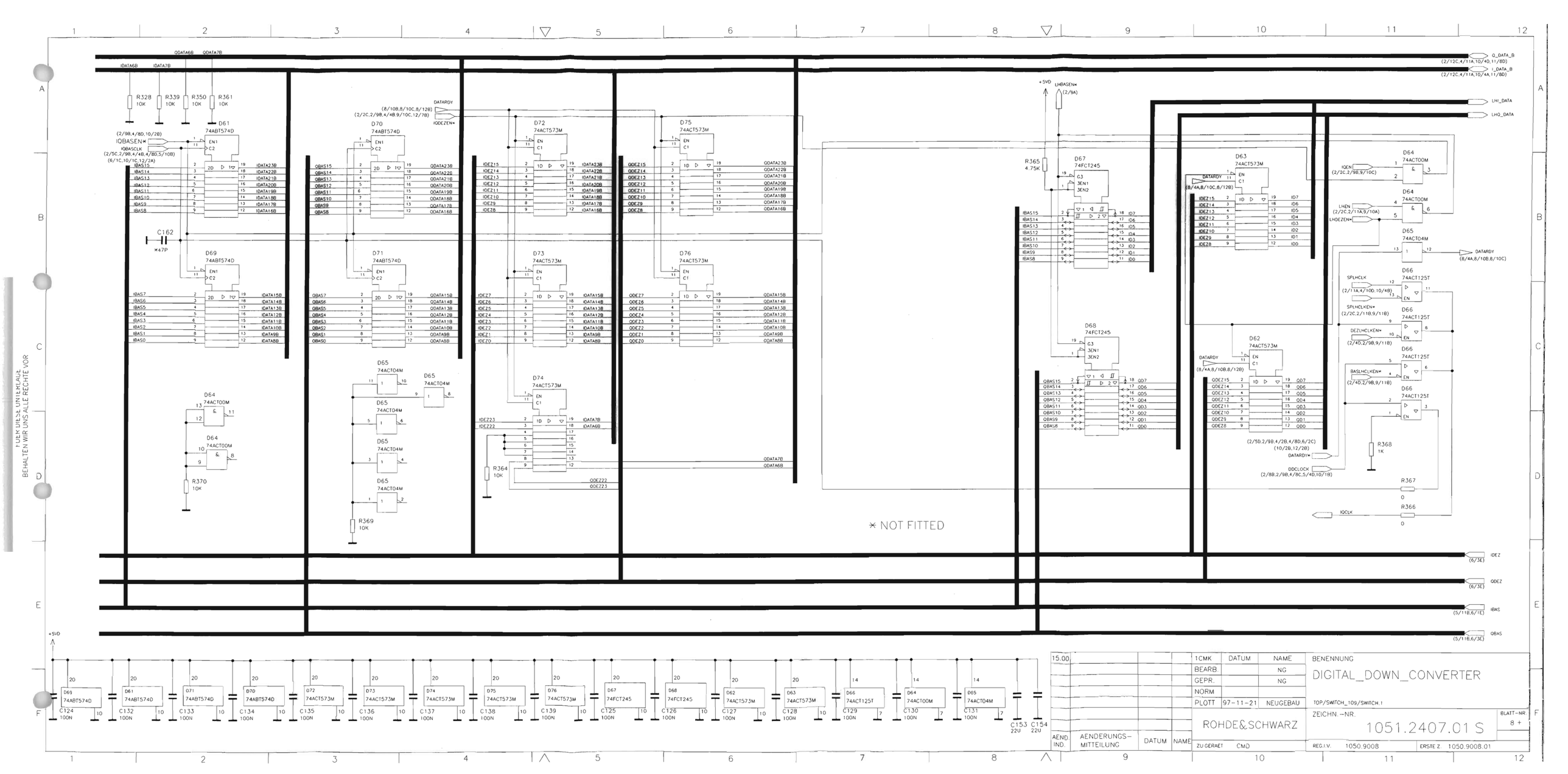
+5VD
R130 R131 R132 R133 R134 R135 R136 R137 R138 R139 R140 R141 47K
R118 R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 47K
+5VD

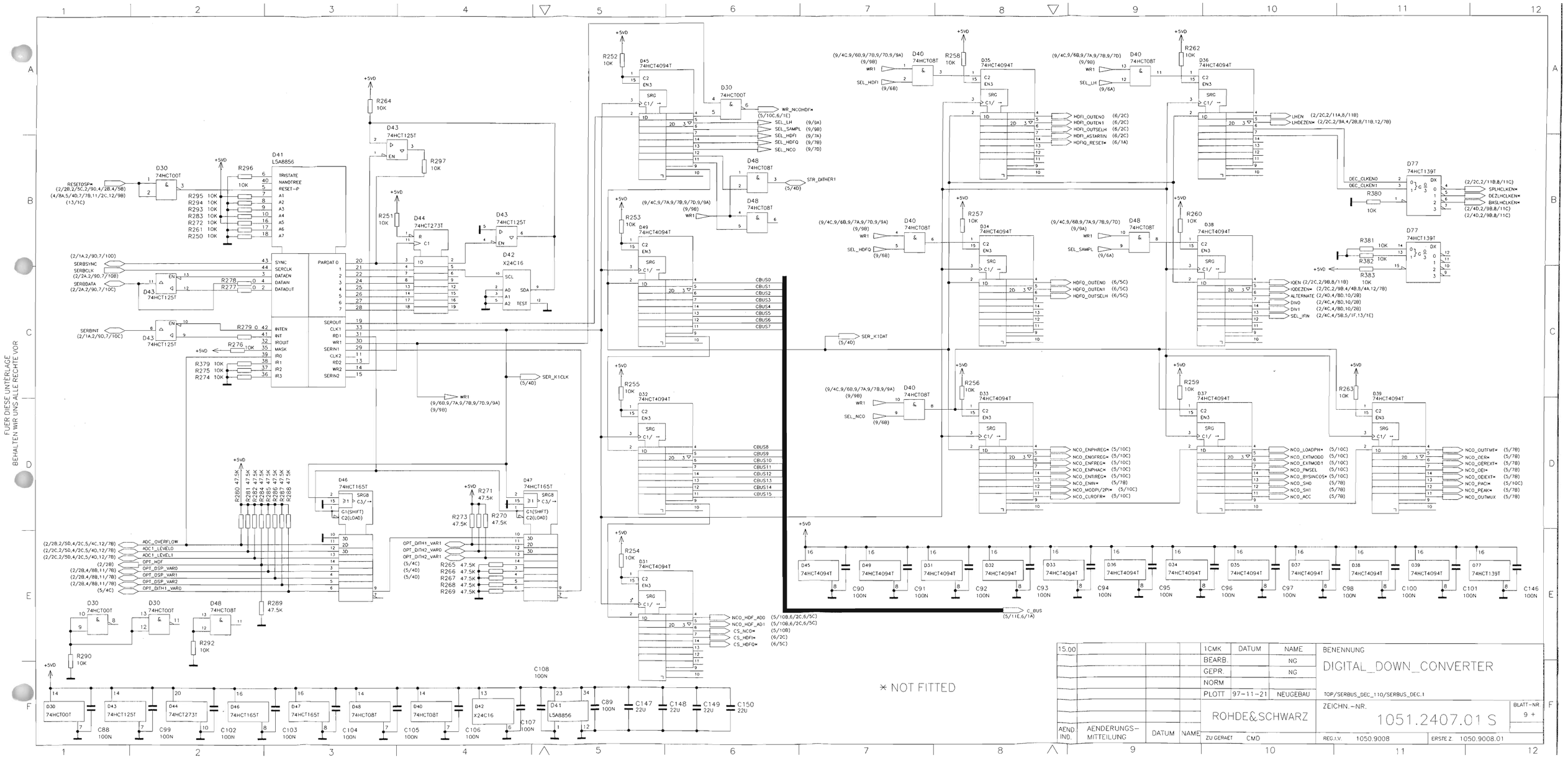
* NOT FITTED

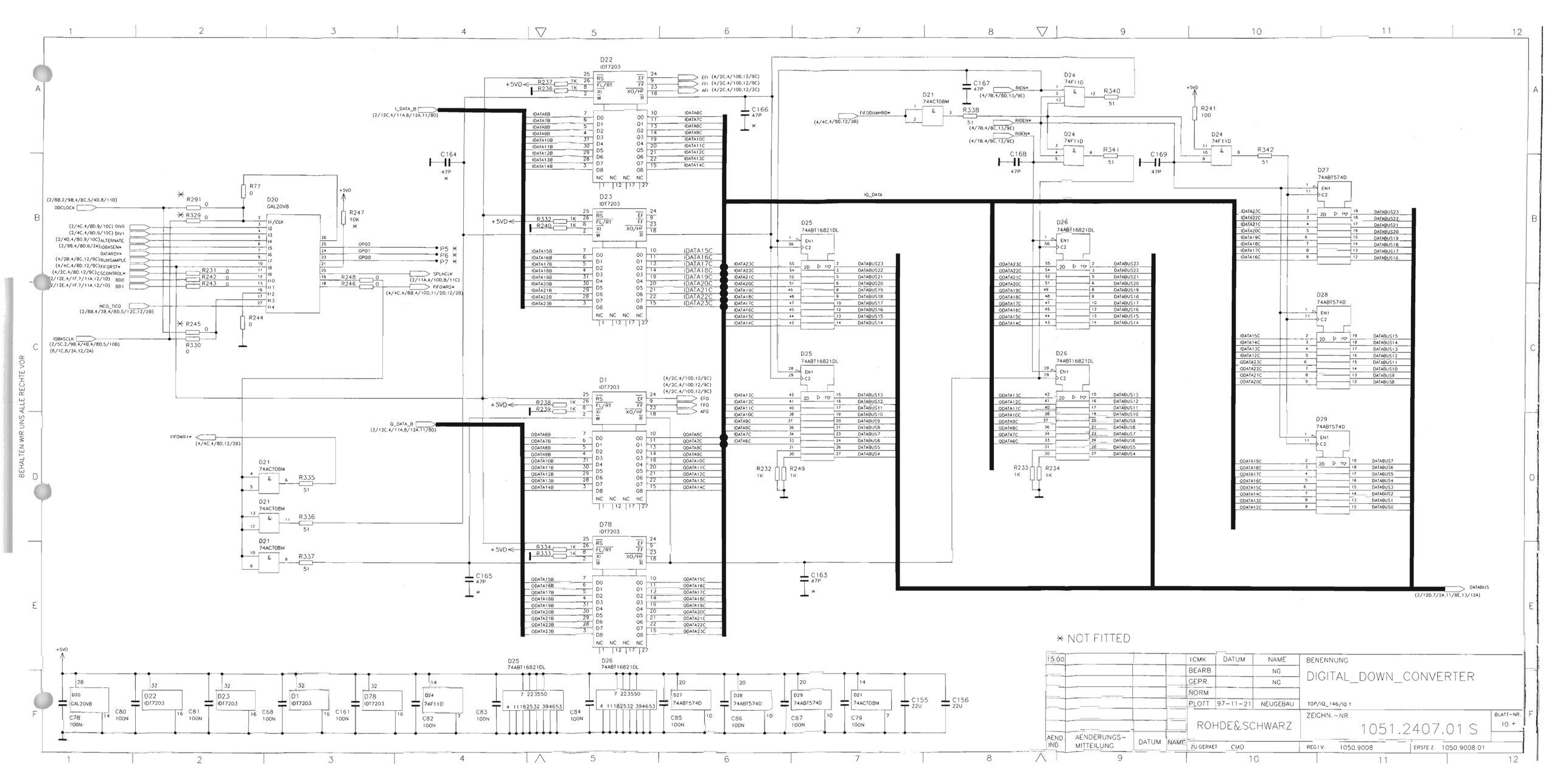
15.00				1CMK	DATUM	NAME	BENENNUNG
				BEARB.		NG	DIGITAL_DOWN_CONVERTER
				GEPR.		NG	
				NORM			
				PLOTT	97-11-21	NEUGEBAU	TOP/DDC_107/DDC.2
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2407.01 S
				ZU GERAET CMD			REG.I.V. 1050.9008 ERSTE Z. 1050.9008.01

BLATT-NR. 6 +

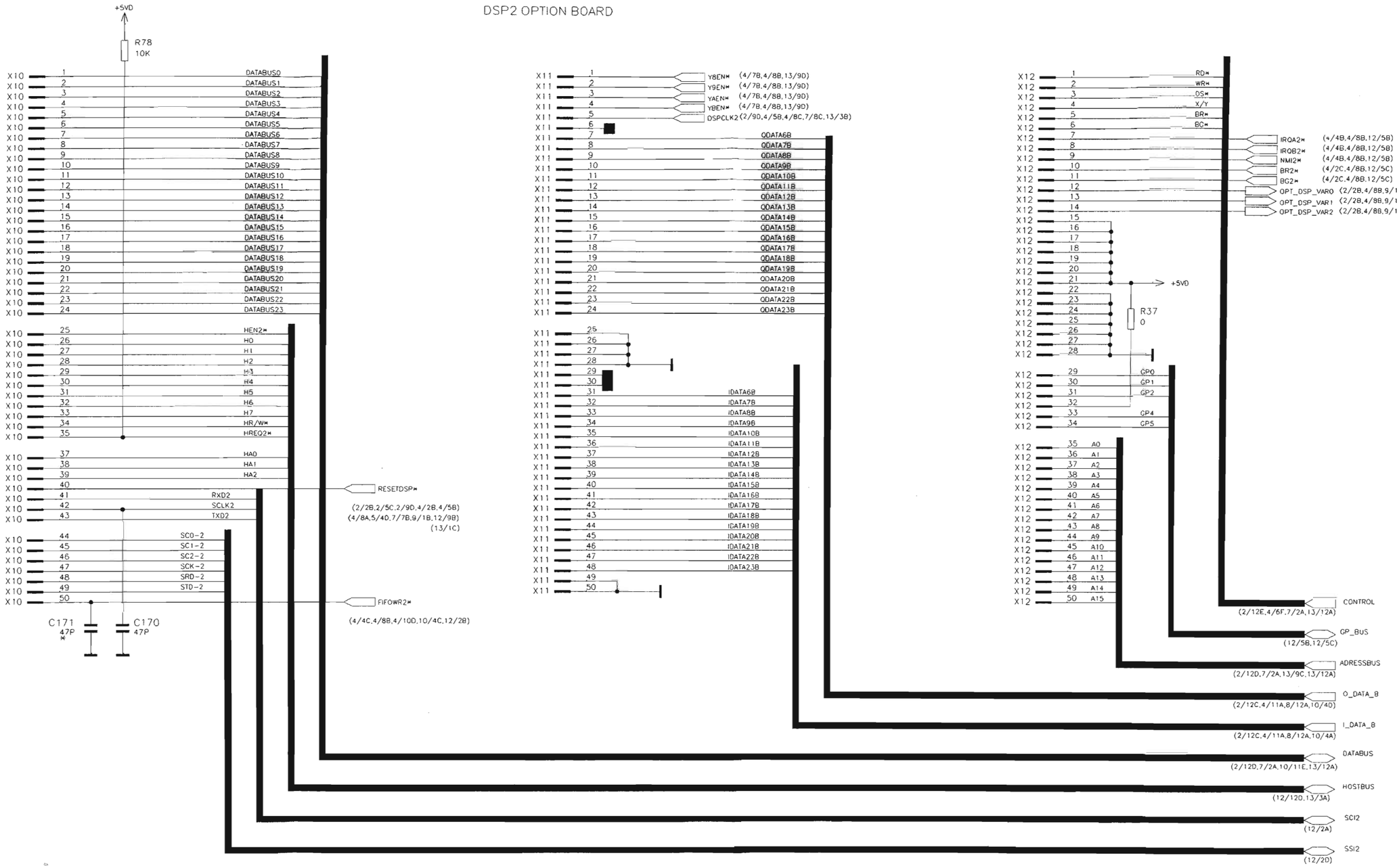

DATABUS (2/12D,10/11E,11/8E,13/12A)
ADRESSBUS (2/12D,11/8D,13/9C,13/12A)
B_DATA (2/12E,4/1F,10/2B,10/2C,12/10)
B_ADR (2/12E,4/1F,12/1E)
D52 74ACT32M
D50 74ACT08M
D54 74ACT32M
D57 74ACT245M
D58 74ACT245M
D55 74ACT04M
D53 74ACT174M
D56 74ACT541M
D51 74HCT125T
D60 L5A8949
R317 10K
R318 10K
R319 10K
R321 2.21K
R298 1K
R325 2.21K
R326 2.21K
R327 2.21K
R299 2.21K
R300 2.21K
R301 2.21K
R302 2.21K
R304 4.75K
R303 4.75K
R322 4.75K
R305 4.75K
R307 4.75K
R308 4.75K
R306 4.75K
R310 4.75K
R311 4.75K
R309 0
R324 0
R316 30.1
R315 10K
R314 30.1
R313 10K
R312 10K
R323 10K
R151 10K
R152 10K
X30
SERBCLK (2/2A,2/9D,9/1C)
SERBDATA (2/2A,2/9D,9/1C)
SERBINT (2/1A,2/9D,9/1C)
SERBSYNC (2/1A,3/9D,9/1B)
INTSER* (2/9D,4/2B,12/7C)
RESETDSP* (2/2B,2/5C,2/9D,4/2B,4/5B) (4/8A,5/4D,9/1B,11/2C,12/9B) (13/1C)
DSPCLK2 (2/9D,4/5B,4/8C,11/5A,13/3B)
CLK20M (2/8D,4/5B,13/11A)
RD* (2/12E,4/6F,11/8D,13/12A)
WR* (2/12E,4/6F,11/8D,13/12A)
YIOEN* (2/9D,4/2B,4/7B,12/7B,13/9D)
BRD* (2/9D,4/2D,7/8B,12/2B)
BWR* (2/9D,4/2D,7/8B,12/2B)
CSB_SERB* BRD* BWR* (2/9D,4/2D,7/3C,12/2B)
+5VD
C109 100N
C116 100N
C117 100N
C118 100N
C119 100N
C120 100N
C121 100N
C123 100N
C110 100N
C111 100N
C112 100N
C113 100N
C114 100N
C115 100N
C152 22U
C151 22U
* NOT FITTED
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR
15.00
1CMK
DATUM
NAME
BEARB.
NG
GEPR.
NG
NORM
PLOTT 97-11-21 NEUGEBAU
BENENNUNG
DIGITAL_DOWN_CONVERTER
TOP/SERBUS_MAS_108/SERBUS_MAS.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2407.01 S
BLATT-NR.
7 +
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1050.9008.01


R328 10K
R339 10K
R350 10K
R361 10K
C162 *47P
R370 10K
R364 10K
R369 10K
R365 4.75K
R367 0
R366 0
R368 1K
D61 74ABT574D
D70 74ABT574D
D71 74ABT574D
D69 74ABT574D
D72 74ACT573M
D73 74ACT573M
D74 74ACT573M
D75 74ACT573M
D76 74ACT573M
D67 74FCT245
D68 74FCT245
D62 74ACT573M
D63 74ACT573M
D64 74ACT00M
D65 74ACT04M
D66 74ACT125T
* NOT FITTED
+5VD
C124 100N
C132 100N
C133 100N
C134 100N
C135 100N
C136 100N
C137 100N
C138 100N
C139 100N
C125 100N
C126 100N
C127 100N
C128 100N
C129 100N
C130 100N
C131 100N
C153 22U
C154 22U
ROHDE&SCHWARZ
DIGITAL_DOWN_CONVERTER
1051.2407.01 S
1CMK
BEARB.
GEPR.
NORM
PLOTT 97-11-21 NEUGEBAU
TOP/SWITCH_109/SWITCH.1
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1050.9008.01
BLATT-NR 8 +
15.00
* DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR


FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR
D30 74HCT00T
D41 L5A8856
D43 74HCT125T
D44 74HCT273T
D42 X24C16
D45 74HCT4094T
D30 74HCT00T
D48 74HCT08T
D48 74HCT08T
D49 74HCT4094T
D32 74HCT4094T
D31 74HCT4094T
D46 74HCT165T
D47 74HCT165T
D30 74HCT00T
D30 74HCT00T
D48 74HCT08T
D40 74HCT08T
D35 74HCT4094T
D40 74HCT08T
D36 74HCT4094T
D77 74HCT139T
D34 74HCT4094T
D48 74HCT08T
D38 74HCT4094T
D77 74HCT139T
D40 74HCT08T
D33 74HCT4094T
D37 74HCT4094T
D39 74HCT4094T
D45 74HCT4094T
D49 74HCT4094T
D31 74HCT4094T
D32 74HCT4094T
D33 74HCT4094T
D36 74HCT4094T
D34 74HCT4094T
D35 74HCT4094T
D37 74HCT4094T
D38 74HCT4094T
D39 74HCT4094T
D77 74HCT139T
+5VD
RESETDSP*
SERBSYNC
SERBCLK
SERBDATA
SERBINT
SEL_HDF1
SEL_LH
SEL_SAMPL
SEL_HDFQ
SEL_NCO
WR1
STR_DITHER1
SER_K1DAT
SER_K1CLK
C_BUS
ADC_OVERFLOW
ADC1_LEVEL0
ADC1_LEVEL1
OPT_HDF
OPT_DSP_VAR0
OPT_DSP_VAR1
OPT_DSP_VAR2
OPT_DITH1_VAR0
OPT_DITH1_VAR1
OPT_DITH2_VAR0
OPT_DITH2_VAR1
CBUS0
CBUS1
CBUS2
CBUS3
CBUS4
CBUS5
CBUS6
CBUS7
CBUS8
CBUS9
CBUS10
CBUS11
CBUS12
CBUS13
CBUS14
CBUS15
NCO_HDF_A00
NCO_HDF_A01
CS_NCO*
CS_HDFI*
CS_HDFQ*
HDFI_OUTEN0
HDFI_OUTEN1
HDFI_OUTSELH
HDFI_ASTARTIN
HDFIQ_RESET*
HDFQ_OUTEN0
HDFQ_OUTEN1
HDFQ_OUTSELH
LHEN
LHDEZEN*
DEC_CLKEN0
DEC_CLKEN1
IQEN
IQDEZEN*
ALTERNATE
DIV0
DIV1
SEL_IFIN
SPLHCLKEN*
DEZLHCLKEN*
BASLHCLKEN*
NCO_ENPHREG*
NCO_ENOFREG*
NCO_ENFREG*
NCO_ENPHAC*
NCO_ENTIREG*
NCO_ENR*
NCO_MODPI/2PI*
NCO_CLROFR*
NCO_LOADPH*
NCO_EXTMOD0
NCO_EXTMOD1
NCO_PWSEL
NCO_BYSINCOS*
NCO_SH0
NCO_SH1
NCO_ACC
NCO_OUTFMT*
NCO_OER*
NCO_OEREXT*
NCO_OEI*
NCO_OEIEXT*
NCO_PAC*
NCO_PEAK*
NCO_OUTMUX
C88 100N
C99 100N
C102 100N
C103 100N
C104 100N
C105 100N
C106 100N
C107 100N
C108 100N
C89 100N
C147 22U
C148 22U
C149 22U
C150 22U
C90 100N
C91 100N
C92 100N
C93 100N
C94 100N
C95 100N
C96 100N
C97 100N
C98 100N
C100 100N
C101 100N
C146 100N
* NOT FITTED
15.00
1CMK
DATUM
NAME
BEARB.
GEPR.
NORM
PLOTT 97-11-21 NEUGEBAU
BENENNUNG
DIGITAL_DOWN_CONVERTER
TOP/SERBUS_DEC_110/SERBUS_DEC.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2407.01 S
BLATT-NR.
9 +
AEND IND.
AENDERUNGS-MITTEILUNG
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1050.9008.01

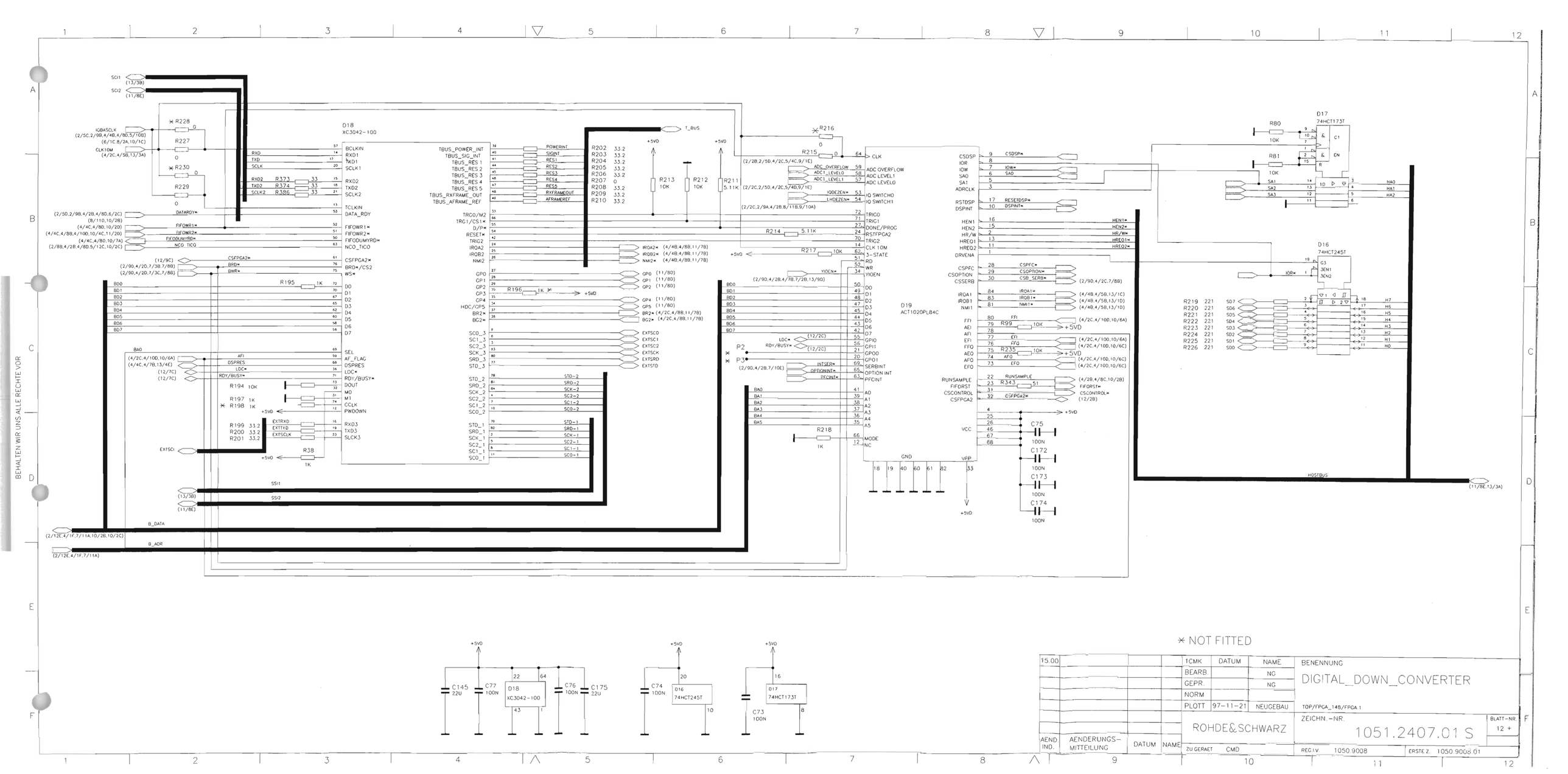

D22 IDT7203
D23 IDT7203
D1 IDT7203
D78 IDT7203
D20 GAL20V8
D21 74ACT08M
D24 74F11D
D25 74ABT16821DL
D26 74ABT16821DL
D27 74ABT574D
D28 74ABT574D
D29 74ABT574D
I_DATA_B (2/12C,4/11A,8/12A,11/8D)
Q_DATA_B (2/12C,4/11A,8/12A,11/8D)
IQ_DATA
DATABUS (2/12D,7/2A,11/8E,13/12A)
(4/2C,4/10D,12/9C) (4/2C,4/10D,12/9C) (4/2C,4/10D,12/9C)
EFI (4/2C,4/10D,12/9C)
FFI (4/2C,4/10D,12/9C)
AFI (4/2C,4/10D,12/9C)
EFQ
FFQ
AFQ
(2/8B,2/9B,4/8C,5/4D,8/11D) DDCLOCK
(2/4C,4/8D,9/10C) DIV0
(2/4C,4/8D,9/10C) DIV1
(2/4D,4/8D,9/10C) ALTERNATE
(2/9B,4/8D,8/2A) IOBASEN*
DATAROY*
(4/2B,4/8C,12/9C) RUNSAMPLE
(4/4C,4/8D,12/9C) FIFORST*
(4/2C,4/8D,12/9C) CSCONTROL*
(2/12E,4/1F,7/11A,12/1D) BD0
(2/12E,4/1F,7/11A,12/1D) BD1
NCO_TICO (2/8B,4/3B,4/8D,5/12C,12/2B)
IOBASCLK (2/5C,2/9B,4/4B,4/8D,5/10B) (6/1C,8/2A,12/2A)
FIFOWR1* (4/4C,4/8D,12/2B)
SPLNCLK (2/11A,4/10D,8/11C)
FIFOWR2* (4/4C,4/8B,4/10D,11/2D,12/2B)
FIFODUMYRD* (4/4C,4/8D,12/2B)
RIEN* (4/7B,4/8D,13/9E)
RIOEN* (4/7B,4/8C,13/9E)
ROEN* (4/7B,4/8C,13/9E)
* NOT FITTED
BEHALTEN WIR UNS ALLE RECHTE VOR
ROHDE&SCHWARZ
DIGITAL_DOWN_CONVERTER
1051.2407.01 S
TOP/IQ_146/IQ 1
BENENNUNG
ZEICHN.-NR.
BLATT-NR. 10 +
1CMK DATUM NAME
BEARB NG
GEPR. NG
NORM
PLOTT 97-11-21 NEUGEBAU
AENDERUNGS-MITTEILUNG
ZU GERAET CMD
REGI.V. 1050.9008
ERSTE Z. 1050.9008.01

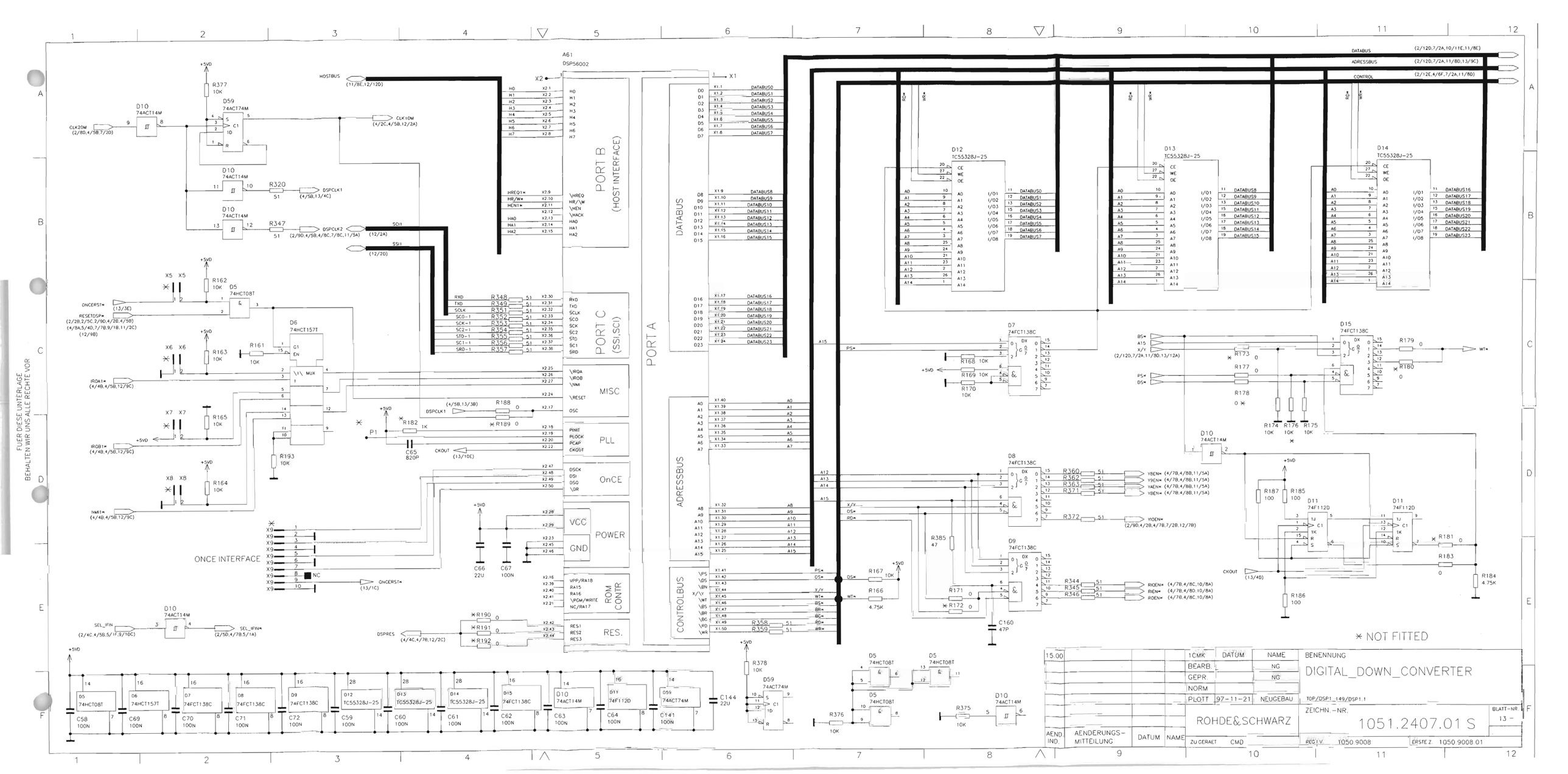
DSP2 OPTION BOARD



* NOT FITTED

15.00				1CMK	DATUM	NAME	BENENNUNG
				BEARB.		NG	DIGITAL_DOWN_CONVERTER
				GEPR.		NG	
				NORM			
				PLOTT	97-11-21	NEUGEBAU	TOP/DSP2_147/DSP2.1
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1051.2407.01 S
				ZU GERAET CMD			BLATT-NR. 11 +
				REG.I.V. 1050.9008			ERSTE Z. 1050.9008.01


D18
XC3042-100
D19
ACT1020PL84C
D17
74HCT173T
D16
74HCT245T
R228
R227
R230
R229
R216
R215
R214
R217
R218
R213
R212
R211
R80
R81
R195
R196
R194
R197
R198
R199
R200
R201
R38
R202
R203
R204
R205
R206
R207
R208
R209
R210
R219
R220
R221
R222
R223
R224
R225
R226
R99
R235
R343
C75
C172
C173
C174
C145
C77
C76
C175
C74
C73
SCI1
SCI2
IGBASCLK
CLK10M
DATARDY
FIFOWR1
FIFOWR2
FIFODUMYRD
NCO_TICO
CSFPGA2
BRD
BWR
WS
SEL
AF_FLAG
DSPRES
LDC
RDY/BUSY
DOUT
M0
M1
CCLK
PWDOWN
RXD3
TXD3
SLCK3
EXTSCI
SSI1
SSI2
B_DATA
B_ADR
T_BUS
HOSTBUS
NOT FITTED
BENENNUNG
DIGITAL_DOWN_CONVERTER
TOP/FPGA_148/FPGA.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2407.01 S
BLATT-NR.
12 +
ZU GERAET CMD
REG.V. 1050.9008
ERSTE Z. 1050.9008.01
1CMK DATUM NAME
BEARB. NG
GEPR. NG
NORM
PLOTT 97-11-21 NEUGEBAU
AEND. IND. AENDERUNGS-MITTEILUNG DATUM NAME
15.00
BEHALTEN WIR UNS ALLE RECHTE VOR



15.00			1 CMK	DATUM	NAME
			BEARB.		NG
			GEPR.		NG
			NORM		
			PLOTT 97-11-21		NEUGEBAU

BENENNUNG: DIGITAL_DOWN_CONVERTER

TOP/DSP1_149/DSP1.1

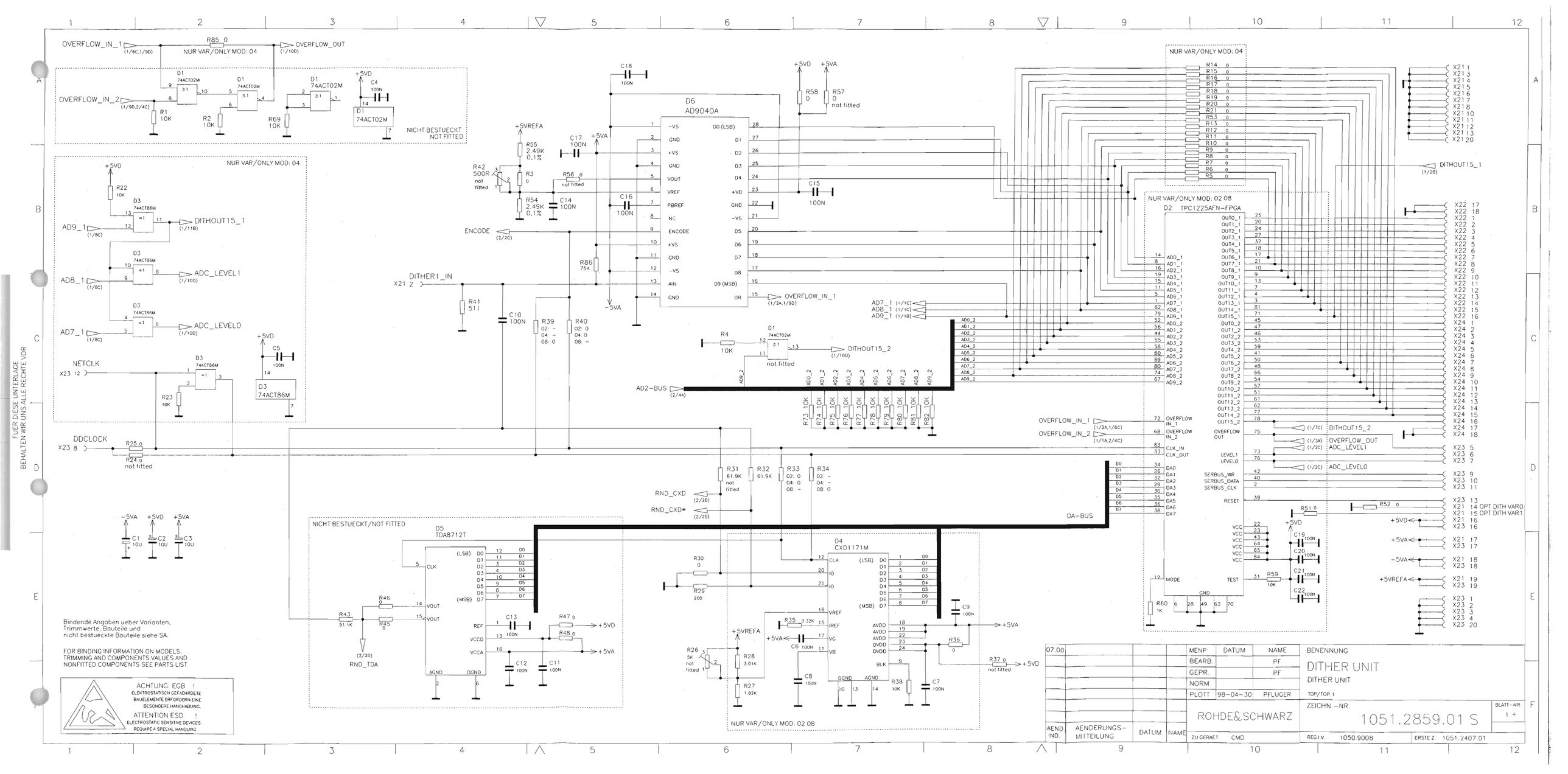
ROHDE&SCHWARZ

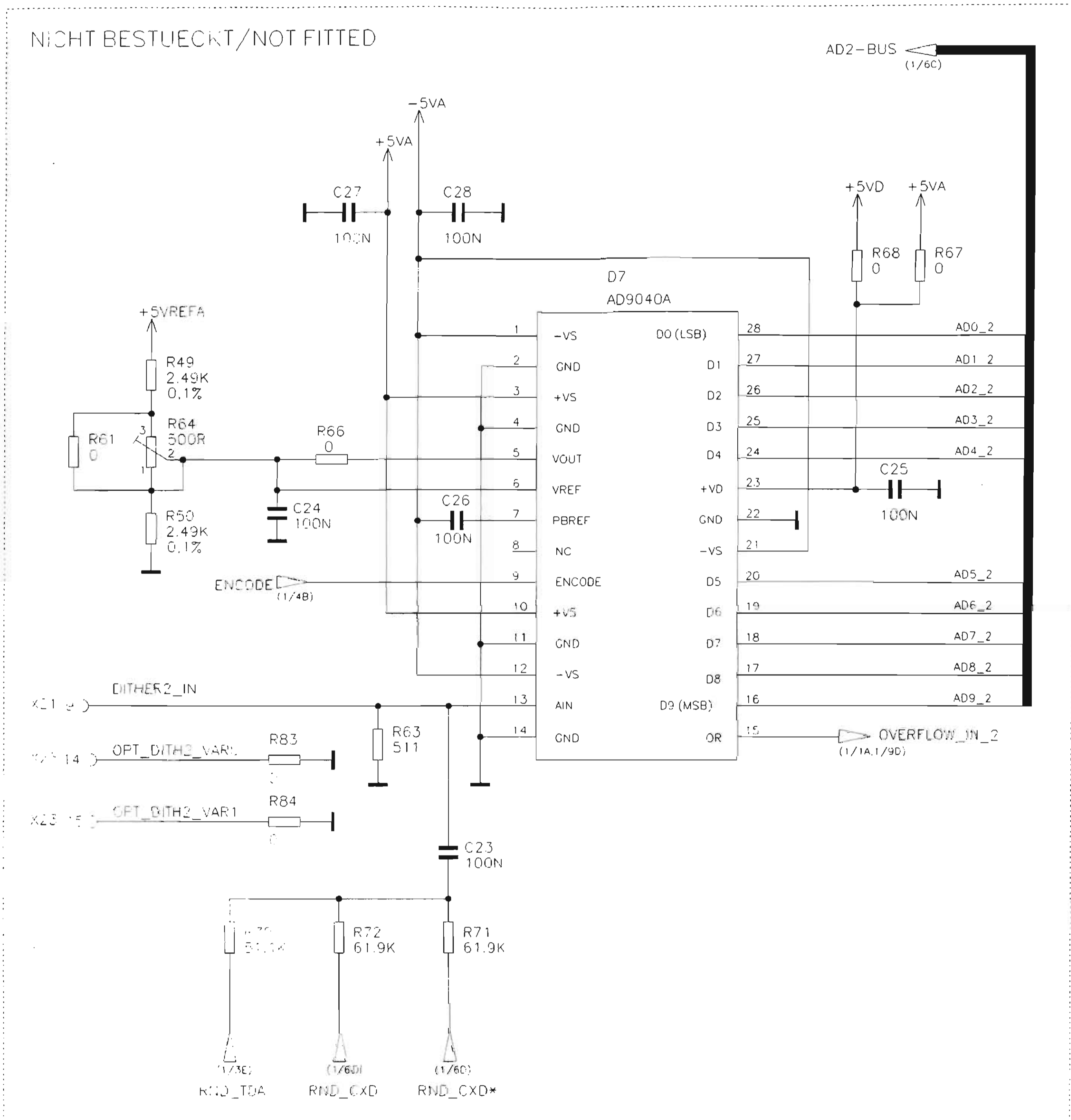
ZEICHN.-NR.: 1051.2407.01 S

BLATT-NR 13 -

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME

ZU GERAET CMD | REG.V. 1050.9008 | ERSTE Z. 1050.9008.01


OVERFLOW_IN_1
OVERFLOW_IN_2
OVERFLOW_OUT
NUR VAR/ONLY MOD: 04
NICHT BESTUECKT
NOT FITTED
D6
AD9040A
D5
TDA8712T
D4
CXD1171M
D2
TPC1225AFN-FPGA
NUR VAR/ONLY MOD: 02 08
ENCODE
DITHER1_IN
DITHOUT15_1
DITHOUT15_2
ADC_LEVEL1
ADC_LEVEL0
NETCLK
DDCLOCK
AD2-BUS
DA-BUS
RND_CXD
RND_CXD*
RND_TDA
+5VD
+5VA
-5VA
+5VREFA
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
FUER DIESE UNTERLAGE 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
07.00
MENP DATUM NAME
BEARB. PF
GEPR. PF
NORM
PLOTT 98-04-30 PFLUGER
BENENNUNG
DITHER UNIT
DITHER UNIT
TOP/TOP.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1051.2859.01 S
BLATT-NR. 1 +
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM NAME
ZU GERAET CMD
REG.I.V. 1050.9008
ERSTE Z. 1051.2407.01



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 GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.

ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

MENF	DATUM	NAME	BENENNUNG
BEARB.		PF	DITHER UNIT
GEPR.		PF	DITHER UNIT
NORM			TOP/TOP.2
PLOTT	96-04-30	PFLUGER	

AEND. INDX. | AENDERUNGS-MITTEILUNG | DATUM | NAME

ROHDE&SCHWARZ

ZEICHN.-NR. 1051.2859.01 S

BLATT-NR. 2

ZU GERAET CMD | REG.NV 1050.9008 | ERSTE Z 1051.2407.01

1 | 2 | 3 | 4

DSP56002
D1

HOST: HREQ, HR/W, HEN, HACK, HA0, HA1, HA2
OSC, R21 10R L, G1, C6 100N L
CKOUT
PLL: PCAP, PLOCK, PINIT, R22 10R L, C8 1U 25V TA L, R15 10K L, R16 10K L
R2 47K5, R3 47K5 L, R4 47K5 L, R5 47K5 L
NMI, IRQA, IRQB, RESET
C14 1U L, C4 10U 25V, C5 10U 25V
RESERVED: RES1, RES2, RES3
ONCE: DSCK, DSI, DSO, DR, R9 47K5 L, R17 10K L, R18 10K L
HOST: H0–H7
SSI, SCI: RXD, TXD, SCLK, SCO, SCK, SC2, STD, SC1, SRD
A0–A15 → X1 40–25
D0–D23 → X1 1–24
PS, DS, RD, X/Y, WR → X1 41, 42, 49, 44, 50
R6 47K5, R7 47K5 L, R10 47K5 L
BS, BR, BG, WT, BN → X1 46, 47, 48, 45, 43
+5V
C1 100N, C2 100N, C3 100N, C7 100N

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

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

03/01		20.04.94	SC	8GEK	TAG	NAME	BENENNUNG
				BEARB.		SC	DSP56002-MODUL
				GEPR.			DSP56002-MODUL
				NORM			
				PLOTT	29.04.96		
/				ROHDE&SCHWARZ			ZEICHN.-NR. 4037.2102-01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERRET EP090			BLATT-NR. 1+
				REG.I.V. 4037.1506		ERSTE Z. 4037.2102	

HN.-NR.

D200
KM681001J-25-B

SRAM
128K*8
(D201 32K*8)

D300
KM681001J-25-B

SRAM
128K*8
(D301 32K*8)

D400
KM681001J-25-B

SRAM
128K*8
(D401 32K*8)

D11

EPROM
128K*8

C60 100N L
C61 100N L
C62 100N L
C11 100N L
C12 100N
R11 0R L
R23 47K5 L
R12 47K5 L
R13 47K5 L
R14 47K5 L
R24 47K5 L

D12-A 74HCTOOT-L
D12-B 74HCTOOT-L
D12-C 74HCTOOT-L
D12-D 74HCTOOT-L
D12-E 74HCTOOT-L

RDM A16
RDM A15
WRITE

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

FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR

STROMLAUF GILT FUER VAR.02/03

CIRCUIT DIAGRAM IS VALID FOR MOD.02/03

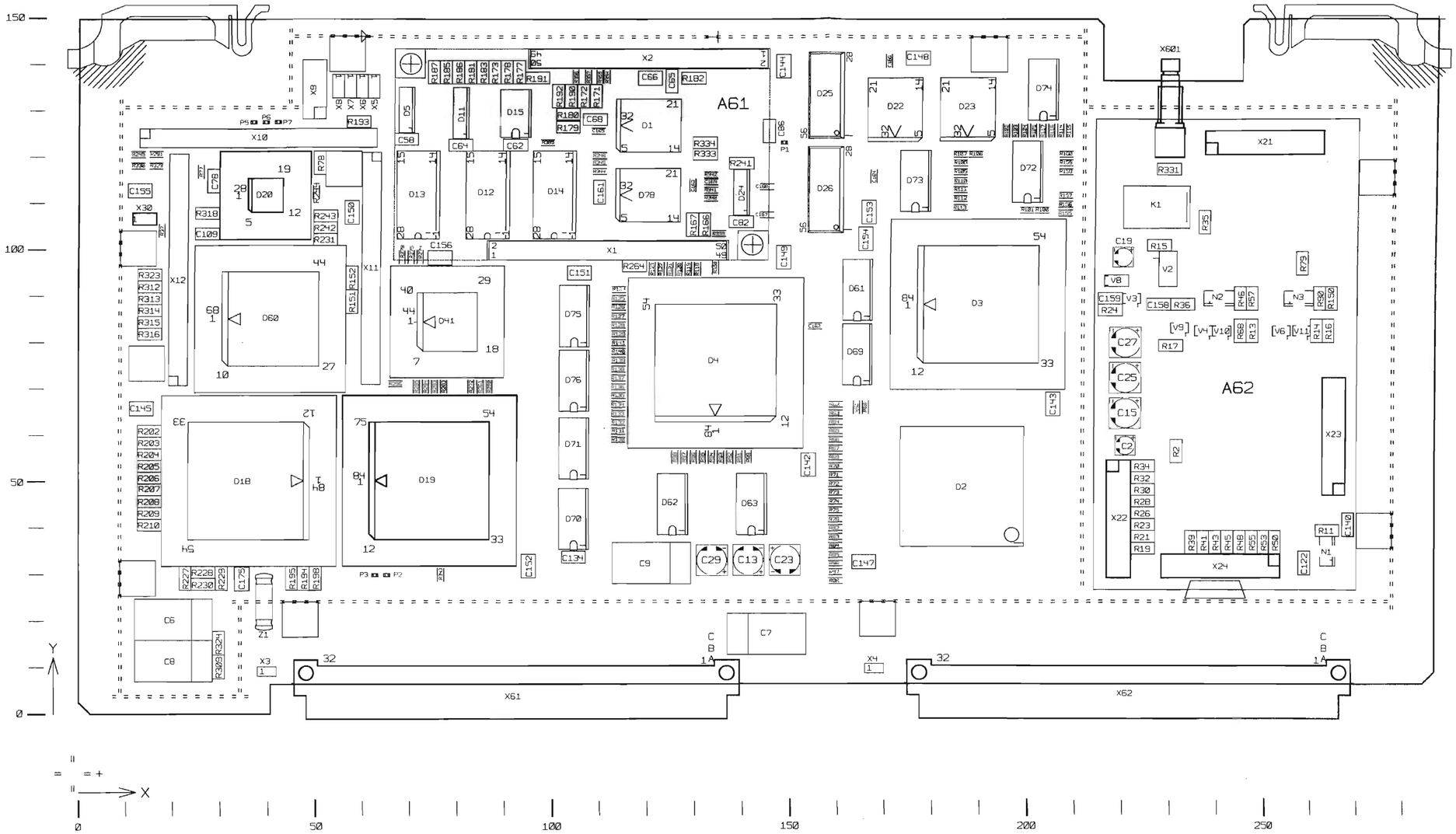
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03/01		20.04.94	SC

8GEK	TAG	NAME
BEARB.		SC
GEPR.		
NORM		
PLOTT	29.04.96	

ROHDE&SCHWARZ
ZU GERAET EP090

BENENNUNG
DSP56002-MODUL
DSP56002-MODUL

ZEICHN.-NR. 4037.2102.01S
BLATT-NR. 2+
V. 6 BL
REG.I.V. 4037.1506
ERSTE Z. 4037.2102



DARSTELLUNG SEITE B
VIEW ON SIDE B

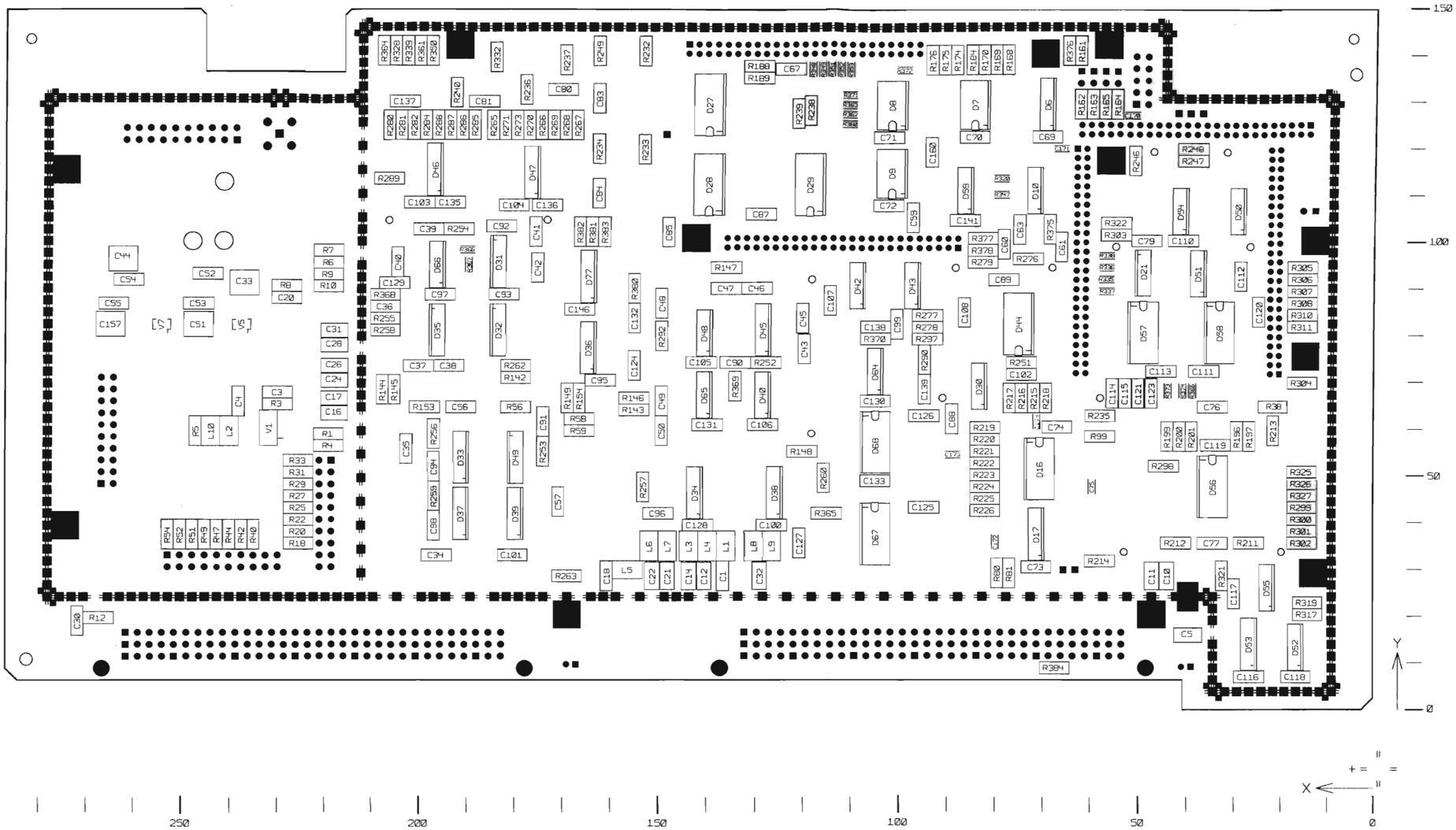
ACHTUNG: ESDI
ELECTROSTATISCH GEFÄHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESDI
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

SIEHENDE ANGABEN UEBER VARIANTEN, TEILEMENTE, BAUTEILMENTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

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

				TOMK	DATUM	NAME
				BEARB		NG
				GEPR		NG
				NORM		
				PLOTT	97-11-20	NELGRAM
IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ		
				ZU GERAET CMD		

BENENNUNG: DIGITAL_DOWN_CONVERTER
ZEICHN.-NR.: 1051.2407.01 D
BLATT-NR.: 1+
REV.-I.V.: 1050.9008
INDEX Z.: 1050.9008



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 ÜBER VARIANTEN, TRIMMORTE, BAUTEILWERTE UND NICHT BESTÜCKTE BAUTEILE SIEHE SW.

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

ÄND.-INDEX	ÄNDERUNGS-MITTEILUNG	DATUM	NAME

	DATUM	NAME
ÜBERPR.		NG
GEARB.		NG
GEPRÜF.		NG
NORM		
FREIG.	07-11-20	NEUGEBAU

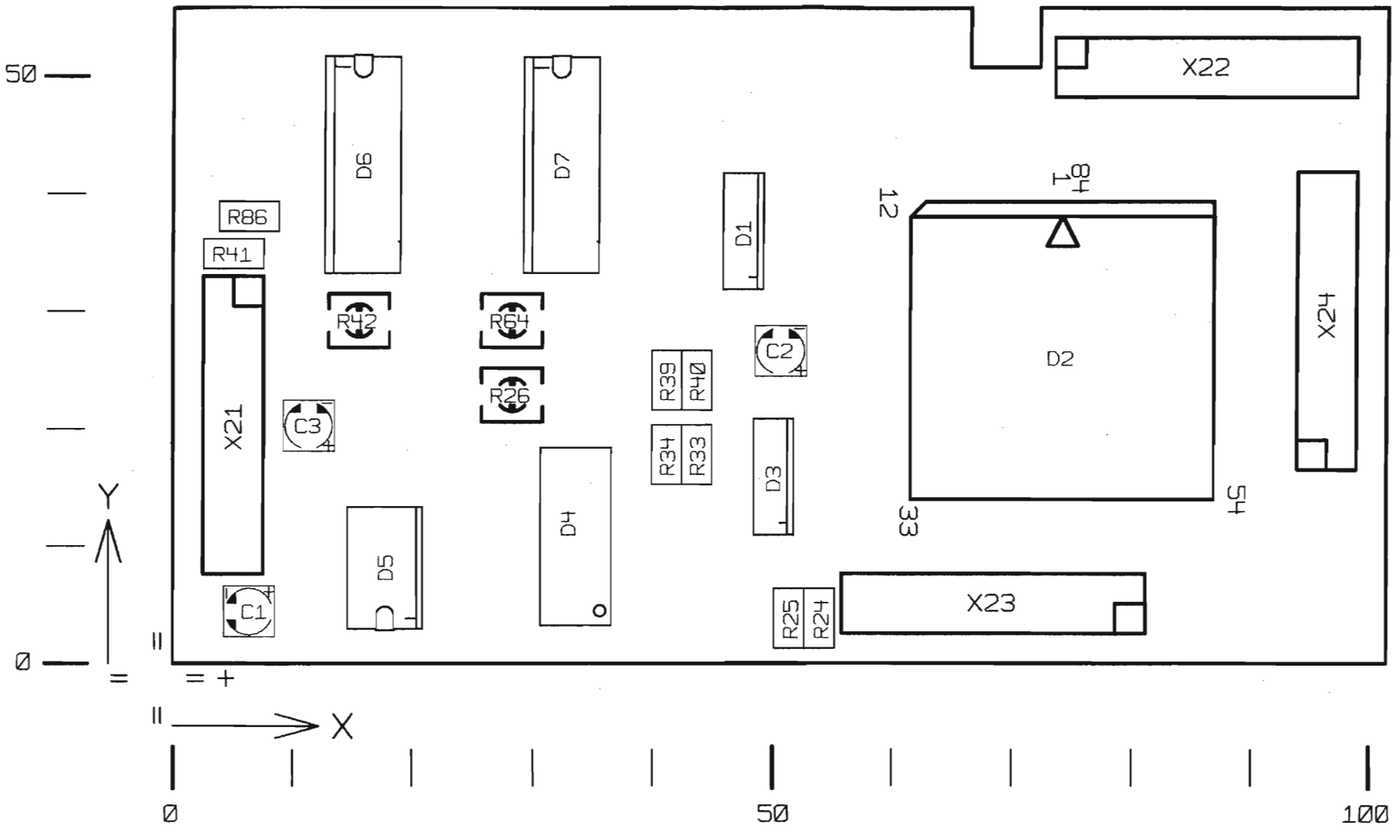
ROHDE&SCHWARZ
DU GERMANY GMBH

BENENNUNG
DIGITAL_DOWN_CONVERTER

ZEICHN.-NR.
1051.2407.01 D

BLATT-NR. 2

REG.-NR. 1050.8098 ERSTE A. 1050.8098



DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

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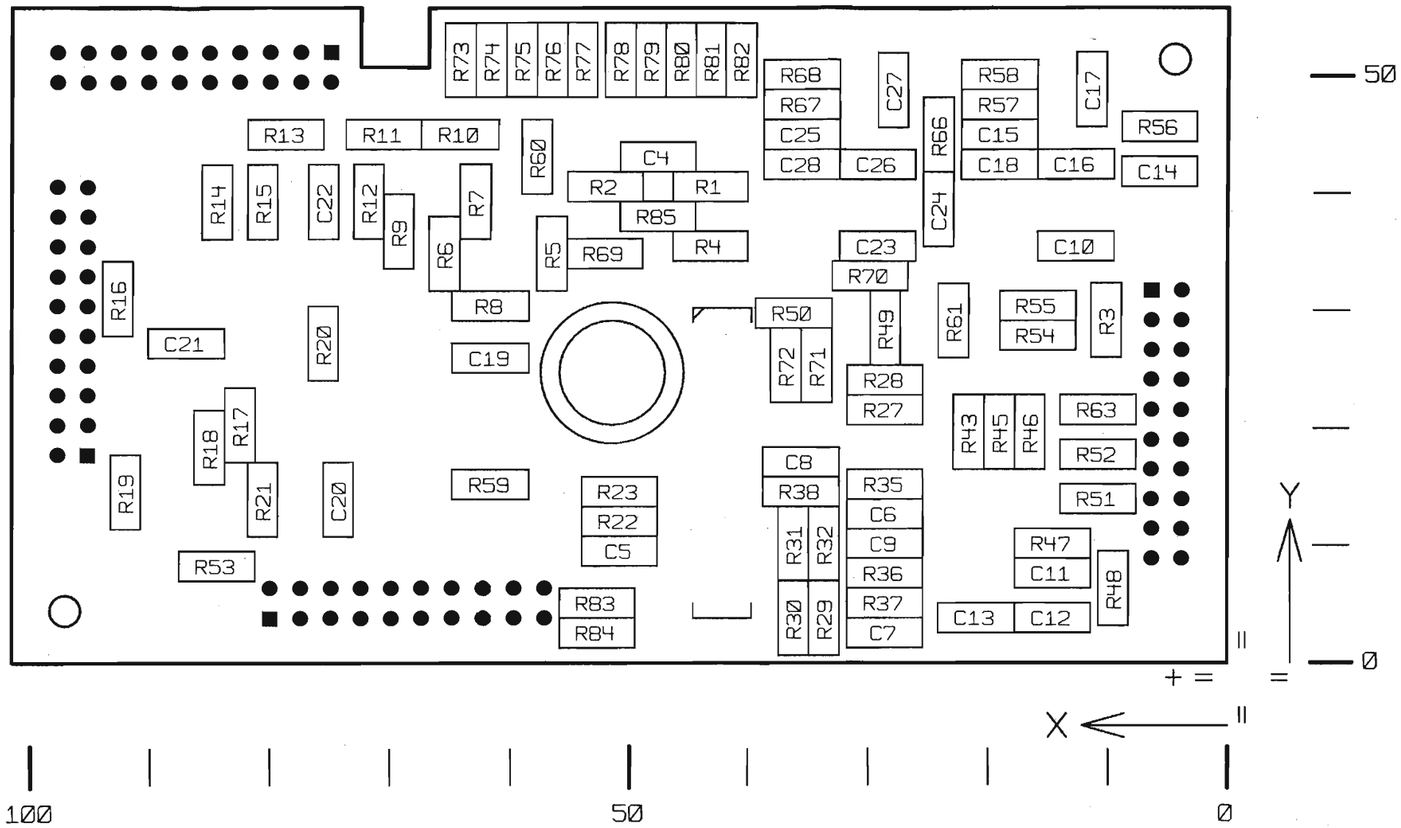
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
07.00			

	MENP	DATUM	NAME
BEARB.			PF
GEPR.			PF
NORM			
PLOTT	98-04-30		PFLUGER

ROHDE&SCHWARZ
ZU GERAET CMD

BENENNUNG
DITHER UNIT
DITHER UNIT

ZEICHN.-NR. 1051.2859.01 D
BLATT-NR. 1+
V. BL.
REG.I.V. 1050.9008
ERSTE Z. 1051.2407



DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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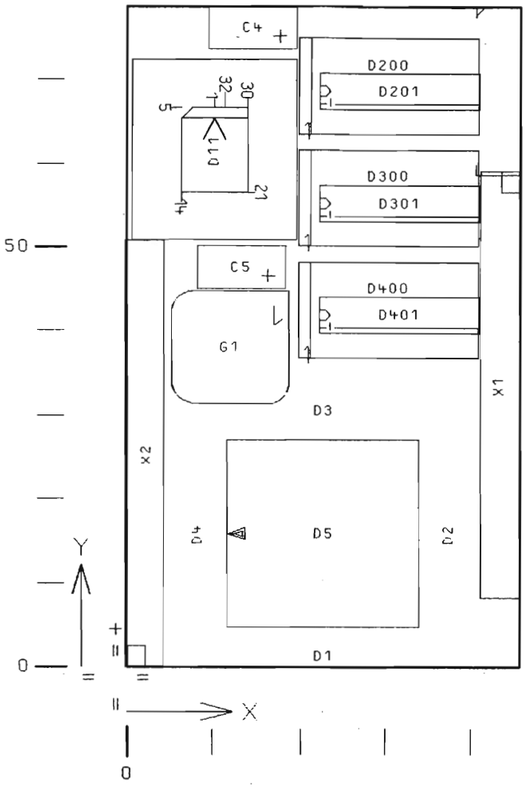
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
07.00			

	DATUM	NAME
MENP		
BEARB.		PF
GEPR.		PF
NORM		
PLOTT	98-04-30	PFLUGER

ROHDE&SCHWARZ
ZU GERAET CMD

BENENNUNG
DITHER UNIT
DITHER UNIT

ZEICHN.-NR. 1051.2859.01 D
BLATT-NR. 2-
V. BL.
REG.I.V. 1050.9008
ERSTE Z. 1051.2407



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

DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
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AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03/01		20.04.94	SC

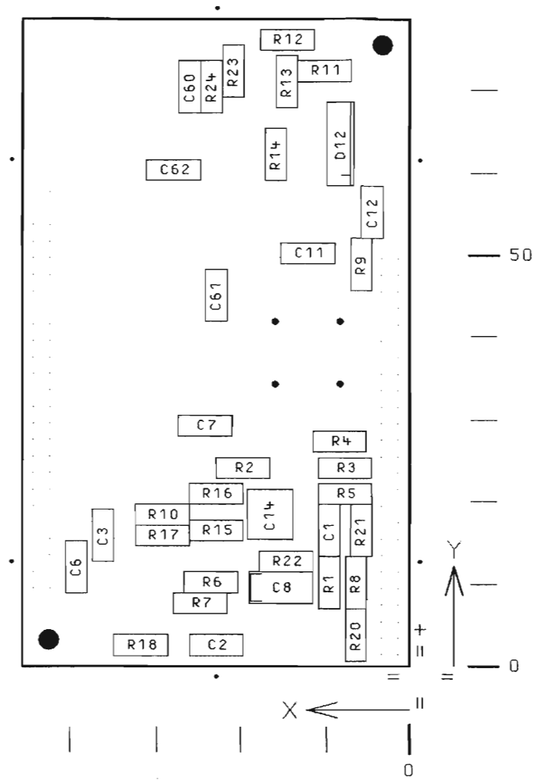
	TAG	NAME
8GEK		
BEARB.		SC
GEPR.		
NORM		
PLOTT	29.04.96	

ROHDE&SCHWARZ
ZU GERAET EP090

BENENNUNG
DSP56002-MODUL
DSP56002-MODUL

Z

ZEICHN.-NR. 4037.2102.01 ED
BLATT-NR. 1+
V. 2 BL.
REG.I.V. 4037.1506
ERSTE Z. 4037.2102



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

DARSTELLUNG SEITE A
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AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
03/01		20.04.94	SC

	TAG	NAME
8GEK		
BEARB.		SC
GEPR.		
NORM		
PLOTT	29.04.96	

ROHDE&SCHWARZ
ZU GEPRUEFT EP090

BENENNUNG
DSP56002-MODUL
DSP56002-MODUL

Z

ZEICHN.-NR. 4037.2102.01 ED
BLATT-NR. 2- v. 2 BL.
REG.I.V. 4037.1506
ERSTE ZI 4037.2102