ROHDE&SCHWARZ

Test and Measurement
Division

Service Manual

VECTOR SIGNAL GENERATOR

SMIQ02B/03B/04B/06B

10125.5555.02/03/04/06

Volume 4
Service manual consists of 4 volumes

Printed in the Federal
Republic of Germany

Safety Instructions

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

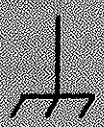
To maintain this condition and to ensure safe operation, the user must observe all instructions and warnings given in this operating manual.

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

Observe operating instructions

Weight indication for units >18 kg

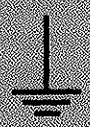
PE terminal



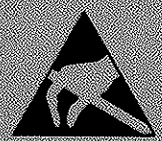
Ground terminal

Danger! Shock hazard

Warning! Hot surfaces



Ground



Attention! Electrostatic sensitive devices require special care

1. The unit may be used only in the operating conditions and positions specified by the manufacturer. Unless otherwise agreed, the following applies to R&S products:
   IP degree of protection 2X, Pollution severity 2, overvoltage category 2, altitude max. 2000 m.
   The unit may be operated only from supply networks fused with max. 16 A.
2. For measurements in circuits with voltages V_{rms} > 30 V, suitable measures should be taken to avoid any hazards.
   (using, for example, appropriate measuring equipment, fusing, current limiting, electrical separation, insulation).
3. If the unit is to be permanently wired, the PE terminal of the unit must first be connected to the PE conductor on site before any other connections are made. Installation and cabling of the unit to be performed only by qualified technical personnel.
4. For permanently installed units without built-in fuses, circuit breakers or similar protective devices, the supply circuit must be fused such as to provide suitable protection for the users and equipment.
5. Prior to switching on the unit, it must be ensured that the nominal voltage set on the unit matches the nominal voltage of the AC supply network.
   If a different voltage is to be set, the power fuse of the unit may have to be changed accordingly.
6. Units of protection class I with disconnectible AC supply cable and appliance connector may be operated only from a power socket with earthing contact and with the PE conductor connected.
7. It is not permissible to interrupt the PE conductor intentionally, neither in the incoming cable nor on the unit itself as this may cause the unit to become electrically hazardous.
   Any extension lines or multiple socket outlets used must be checked for compliance with relevant safety standards at regular intervals.
8. If the unit has no power switch for disconnection from the AC supply, the plug of the connecting cable is regarded as the disconnecting device. In such cases it must be ensured that the power plug is easily reachable and accessible at all times (length of connecting cable approx. 2 m). Functional or electronic switches are not suitable for providing disconnection from the AC supply.
   If units without power switches are integrated in racks or systems, a disconnecting device must be provided at system level.
9. Applicable local or national safety regulations and rules for the prevention of accidents must be observed in all work performed.
   Prior to performing any work on the unit or opening the unit, the latter must be disconnected from the supply network.
   Any adjustments, replacements of parts, maintenance or repair may be carried out only by authorized R&S technical personnel.
   Only original parts may be used for replacing parts relevant to safety (eg power switches, power transformers, fuses). A safety test must be performed after each replacement of parts relevant to safety.
   (visual inspection, PE conductor test, insulation-resistance, leakage-current measurement, functional test).

continued overleaf

10. Ensure that the connections with information technology equipment comply with IEC950 / EN60950.
11. Lithium batteries must not be exposed to high temperatures or fire.

    Keep batteries away from children.

    If the battery is replaced improperly, there is danger of explosion. Only replace the battery by R&S type (see spare part list).

    Lithium batteries are suitable for environmentally-friendly disposal or specialized recycling. Dispose them into appropriate containers, only.

    Do not short-circuit the battery.
12. Equipment returned or sent in for repair must be packed in the original packing or in packing with electrostatic and mechanical protection.
13. Electrostatics via the connectors may damage the equipment. For the safe handling and operation of the equipment, appropriate measures against electrostatics should be implemented.
14. Any additional safety instructions given in this manual are also to be observed.

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ROHDE&SCHWARZ

SERVICE DOCUMENTS

Option MODULATION CODER SMIQ-B20

1085.5250.02

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7 Testing and Repair of the Module

7.1 Function Description

The MCOD module contains a universal modulation coder that converts the digital data streams into analog I/Q modulation signals according to the type of modulation and filtering, an interface to the optional data generator, the conditioning of the power ramp signal and a clock synthesizer for the bit and symbol clock as well as further oversampling clocks. In addition, the MCOD contains an ARB generator as well as a BER tester.

The modulation coder is able to process serial and parallel data, the interface level and the impedance can be set. The symbol rate ranges between 100 Hz and 18 MHz. All interface functions for the modulation data are integrated in the FPGA SCHNITT_TAKT.
The complete baseband signal generation is performed digitally. A programmable coding and mapping table permits matching to the modulation types PSK, QAM and FSK.
The IQ samples may be derived from the mappping RAM as described above, the ARB generator or from the two of them. These data items are then taken via the baseband filters. Baseband filtering is performed by FIR filter ICs; all conventional types of filtering can be set. An additional interpolation filter increases the sampling rate (...128) on demand.
In the case of FSK modulation a frequency integrator (FPGA_FSK) with sine and cosine table converts the FM signal into I/Q signals. Two D/A converters convert the digital I/Q signals into analog signals, subsequent aliasing filters suppress the repeat spectra. Depending on the clock rate, the HIGH FILTER with a cutoff frequency of 12 MHz or the LOW FILTER with a cutoff frequency of 40 kHz is used.

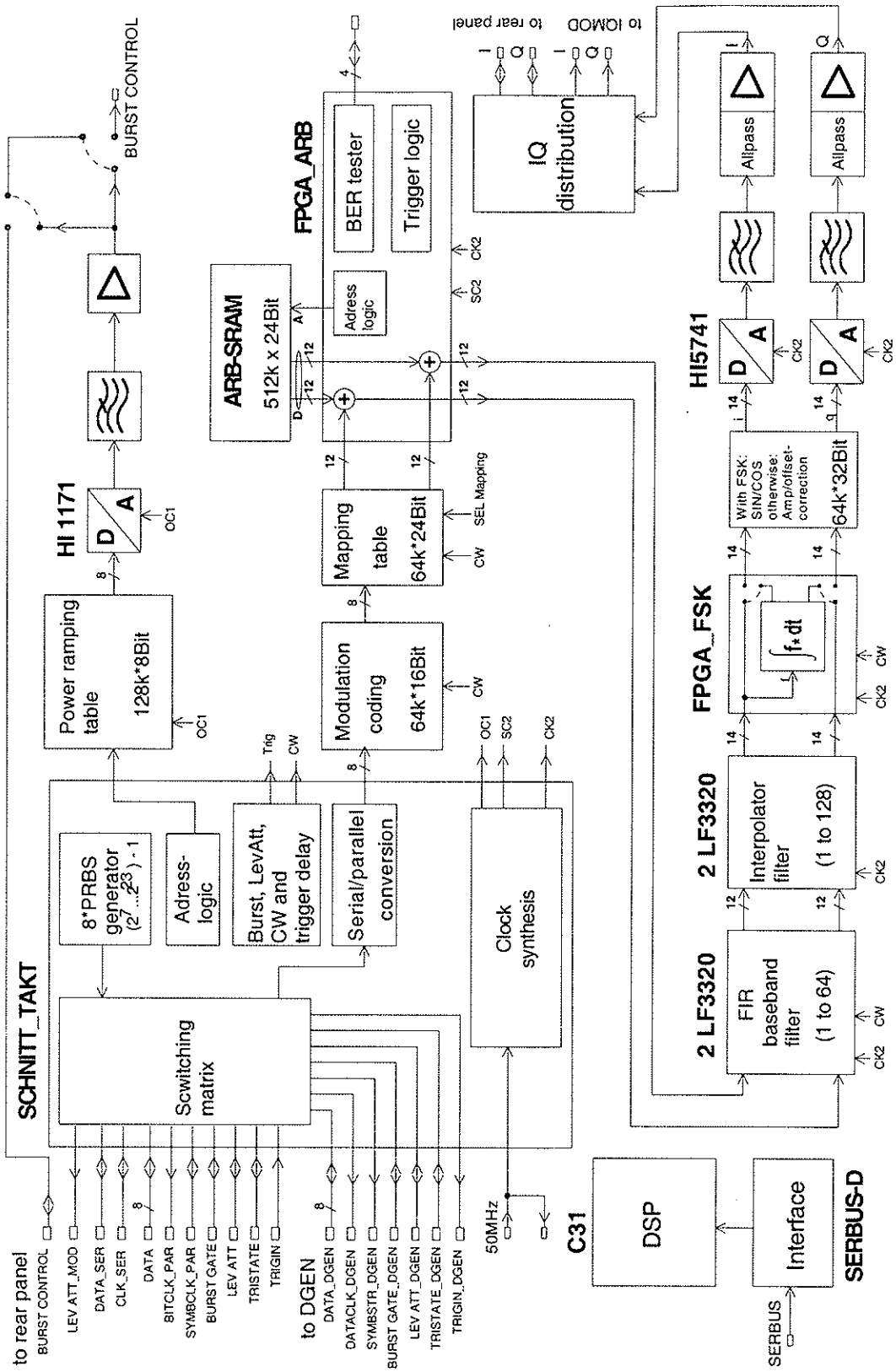
The control of the ARB generator and bit error rate tester is executed by the FPGA ARB. Besides, it includes parts of the trigger logic and interrupt generation.

In order to generate power ramping to the standard, the burst filter permits to set the shape and rise time of the BURST CONTROL signal. The power ramping is controlled by the digital BURST GATE signal, the LEVEL signal permits to additionally switch between two levels; however, this signal is not taken via the burst filter. The BURST CONTROL signal can only be generated in a limited range of the symbol rate of about 100 to 2.5 MHz symbols/s.
The clock synthesizer consists of a VCO (195 to 390 MHz), two ECL prescalers as well as the FPGA SCHNITT_TAKT as main divider and a PLL control loop with four bandwidths. Operation with both internal clock and external bit or symbol clock is possible. In the case of internal clock, the 50 MHz is used as reference for the PLL, with external clock, the bit or symbol clock fed in is directly used. Besides, in this operating mode, the control bandwidth is varied depending on the applied clock rate. The

control of the FIR filters is also integrated in FPGA SCHNITT TAKT.

As a simple internal data source, PRBS generators (2^9-1 to 2^23-1) and a pattern generator (00, 01, 11) are integrated on the module.

The DSP uses the data of the host computer to calculate all setting parameters of the module such as filter coefficients, RAM values for coding, mapping, burst filter, ARB (for the so-called personalities) as well as the parameters of clock synthesis. The communication with the host computer is made in serial mode via the SERBUS-D component.



Block diagram MCOD

7.2 Servicing Concept

The module is a complex hybrid circuit with a mainly digital section. A detailed fault diagnosis at the component level or repair is therefore not possible in the subsidiaries or at the customer side. A faulty module must be replaced by a spare module. The defective module is to be sent to the manufacturing department for more detailed diagnosis and error elimination.
This document is designed such as to enable the servicing engineer to clearly identify a defective module.
To support the manufacturing department with the repair, an error description should be enclosed with the defective module.

7.3 Measuring Instruments and Accessories

- Dual-channel oscilloscope
- Square-wave or pulse generator (4 MHz)
- AC/DC voltmeter, R_i >1 MΩ e. g. URE3

The measuring instruments are required in section 7.5.

7.4 Troubleshooting

If the module is supposed to show malfunctions the selftest is to be called first.

➢ UTILITIES → TEST → **TEST MCOD**

7.4.1 Selftest

The complete selftest consists of several parts that are executed one after the other.

During the internal selftest, the following tests are performed:

Testing the Supply Voltages

The supply voltages +5VA, -5V, +5VD, +3.3VA, +3.3VD, +15V, -15V and +24V are checked using the instrument diagnosis.

Testing the Clock PLL

The tuning voltage and the output level of the clock VCO are measured over the tuning range using the instrument diagnosis. This test does not allow to check the function of the clock PLL with external clock.

Testing the Coding/Mapping/SinCos/Power Ramping RAMs

This test is divided into two parts for each RAM

1. Testing of the data lines:
   The patterns 555555h and AAAAAAh are written to a memory cell and read out again.
2. Testing of the address lines:
   - The pattern 555555h is written to the memory cell with the address 1h.
   - AAAAAAh is written to the other memory cells.
   - Then the first memory cell is read out again. Unless there is an addressing error, its contents must be unchanged.
   - The three test steps are repeated in the same way for addresses 2h, 4h ... (Walking One Address).

Testing the I and Q D/A

With the IQ-RAM, offset and amplitude with HIGH filter, offset and amplitude with LOW filter as well as 001h, 002h to 1000h are applied to the D/A converters and the output voltage is measured using the instrument diagnosis. The measured values are normalized to the offset and the amplitude and checked for the tolerance.

For this test, the signals for I and Q channels are set identically.

Testing the Power Ramping D/A

With the power ramping RAM, the data words 00h (offset), 80h (amplitude), 01h, 02h to 40h are applied to the D/A converter and the output voltage is measured using the instrument diagnosis. The measured values are normalized to the offset and the amplitude and checked for the tolerance.

Testing the I and Q FIR Filters

This test is divided into five parts:

1. Testing of the data inputs and outputs
   With the mapping RAM, the data words 001h, 002h to 800h are applied to the FIR filters. The DC gain of baseband and interpolation FIR filter is set to 1 via the coefficients. The IQ RAM is set such that -1.5 V are generated by the DA converter. The output voltage of the D/A converter is measured using the instrument diagnosis.

2. Testing of the data bus on the baseband filter
   The filter coefficients are set to 001h, 002h . . . 800h, the input word at the FIR filter remains constant. The IQ RAM is set such that -1.5V are generated by the DA converter. The output voltage of the D/A converter is again measured using the instrument diagnosis.

3. Testing of the data bus on the interpolation filter
   This is the same test as described under 2., however for the interpolation filter.

4. Testing of the CSEL lines on the baseband filter
   The filter coefficients are pre-assigned 0, and then a coefficient is set at addresses 001h, 002h . . . 800h. The IQ RAM is set such that -1.5V are generated by the DA converter. The output voltage of the D/A converter is again measured using the instrument diagnosis. For this measurement, the low-frequency aliasing filter (LOW filter) is set for averaging.

5. Testing of the CSEL lines on the interpolation filter
   This is the same test as described under 2., however for the interpolation filter.
   For this test, the signals for I and Q channel are set identically.

Feedbacks of the MCOD Selftest

Remark: The internal selftest is only aborted if a fault has been found after the supply voltage test, i. e. in this case, the remaining tests will not be performed any more.

All the tests are recorded in the MCOD and can then be read out. This report is to be found on DEBUG-PAGE 92 of the SMIQ. The report has the following format:

Error code Diagnostic voltage

With the error code < 0 (-), the test was not successful.
With an error code > 0 (+), the test was passed.

The error code has the following format:
±00AABBCCh

AAh	Testing of	BBh	Error	CCh	Description, condition in case of error
FFh		FFh		FFh	Test not carried out yet.
00h		00h		00h	No error.
01h	Supply voltage	00h	+5VA	01h	Voltage too low
		01h	-5V	02h	Voltage too high
		02h	+5VD		
		03h	+3.3VA		
		04h	+3.3VD		
		05h	+15V		
		06h	-15V		
		07h	+24V		
02h	Clock generation	01h	Tuning voltage (BW=5kHz)	xxh	indicates the frequency point where the error has occurred. (00 to 0Bh)
		02h	Oscillator level (BW=5kHz)		
		03h	Tuning voltage (BW=630Hz)		
		04h	Tuning voltage (BW=80Hz)		
		05h	Tuning voltage (BW=10Hz)		
03h	Coding RAM	01h	Data line	xxh	indicates the data line (00 to 0Fh)
		02h	Address line	xxh	indicates the address line (00 to 0Fh)
04h	Mapping RAM	01h	Data line	xxh	indicates the data line (00 to 1Fh)
		02h	Address line	xxh	indicates the address line (00 to 0Fh)
05h	Burst RAM	01h	Data line	xxh	indicates the data line (00 to 07h)
		02h	Address line	xxh	indicates the address line (00 to 0Eh)
06h	IQ RAM	01h	Data line	xxh	indicates the data line (00 to 1Fh)
		02h	Address line	xxh	indicates the address line (00 to 0Fh)

07h	ARB RAM	01h	Data line	xxh	indicates the data line (00 to 17h)
		02h	Address line	xxh	indicates the address line (00 to 12h)
08h	DA converter I-channel	01h	Offset measurement	00h	no data line at HIGH
09h	DA converter Q-channel	02h	Amplitude measurement	00h	MSB at HIGH
0Ah	DA converter Burst	03h	Offset measurement LOW filter	00h	no data line at HIGH
		04h	Amplitude measurement LOW Filter	00h	MSB at HIGH only IQ-DAC
		05h	DA converter bits	xxh	Data line (00 to 0Dh or 00 to 07h), DA converter bit xxh)* at HIGH
0Bh	FIR filter I-channel	01h	Transmission test BB, INT filter, Mapping RAM on DA converter	xxh	Data line (00 to 0Dh) DA converter bit 13)* at LOW
0Ch	FIR Filter Q-channel				
		02h	Data bus Baseband filter	xxh	Data line (00 to 0Bh) DA converter bit 13)* at LOW
		03h	Data bus Interpolation filter	xxh	Data line (00h to 0Bh) DA converter bit 13)* at LOW
		04h	CSEL Baseband filter	xxh	CSEL line (00 to 04h) Pulse at DA converter bit 13)*
		05h	CSEL Interpolator filter	xxh	CSEL line (00 to 07h) Pulse at DA converter bit 13)*

)* DA converter bit 0 corresponds to D0, LSB
DA converter bit 13 corresponds to D13,MSB etc.

Remark:
If there is a fault in the supply voltages, the test will be aborted. The error report will then only show the supply voltages, the rest consists of zeroes.

7.5 Testing and Adjustment

7.5.1 Checking the Revision Status

Under **UTILITIES:DIAG:CONFIG** the revision status (REV) as well as the variant (VAR) of the module are indicated.

MCOD SMIQB20 VAR... REV...

7.5.2 Jumpers

P1-2 must be connected with P1-3.
P25-1 must be connected with P25-2.

7.5.3 Diagnosis Points

UTILITIES → DIAG → TPOINT → STATE → ON → TP xxxx

Test point	Description	Value range
TP 2200	Reference 10kΩ	-0.01..0.01V
TP 2201	Tuning voltage VCO clock	0 to 18
TP 2202	Output I	-1.5 to 1.5V
TP 2203	Output Q	-1.5 to 1.5V
TP 2204	Output burst	0 to 1.1V
TP 2205	Level VCO clock	0 to 0.5V
TP 2206	Supply +5VA	5.0 to 5.4V
TP 2207	Supply -5V	-5.2 to -4.7V
TP 2208	Supply +5VD	5.0 to 5.2V
TP 2209	Supply +3.3VA	3.2 to 3.5V
TP 2210	Supply +3.3VD	3.2 to 3.4V
TP 2211	Supply +15V	14.6 to 15.8V
TP 2212	Supply -15V	-15.8 to -14.6V
TP 2213	Supply +24V	23.6 to 25.4V

7.5.4 Adjusting the I/Q Output Levels and Offsets

The adjustment of the I/Q output level and offset is automatically performed in the instrument when the calibration of the vector modulation is called up:

➢ UTILITIES → CALIB → VECTOR MOD → CALIBRATE>

If an error occurs, the module must be adjusted in the service department.

7.5.5 Adjusting the Power Ramping Output Level

- Settings: **Press the PRESET key**
  DIG.MOD :STATE:ON
  :SOURCE:SOURCE:PATTERN
  :POWER RAMP CONTROL:SOURCE:EXT_DIGITAL

Feed in high level at connector PARDATA X203.22, BURST GATE, use R2 to adjust to 1000 ± 2 mV at the connector POW RAMP.

7.5.6 Delay Adjustment with External Clock

- Settings: **Press the PRESET key**
  DIG.MOD :STATE:ON
  :MODULATION:BPSK 2b/sym
  :SYMBOL RATE:4Msym/s
  :EXT INPUTS:THRESHOLD:2V
  :EXT INPUTS:CLOCK SLOPE:POS
  :CLOCK:SOURCE:EXT
  :CLOCK:MODE:SYMBOL

Feed in squarewave TTL signal with 4 MHz at SYMBOL CLOCK, using dual-channel oscilloscope measure the applied clock and the internal symbol clock at P11. Use R471 to adjust the difference between the rising edges to 0 ± 5 ns.

7.6 Disassembly and Assembly

After opening the instrument and unlocking the module, it can be removed from its slot. The screening covers of the module are fastened with screws as usually.
For replacing the module, proceed in the reverse order to that of removal.

7.7 External Interfaces

Motherboard:

Pin	Name	Input/ output	Origin/Target	Value range	Signal description
X320.A1	CLK_SER	Bidirectional	A3, FRO, BIT CLK	-5 to 5V	Serial clock
X320.A2	GND		A200, MBIQ		
X320.A3	DATA_SER	Bidirectional	A3, FRO, DATA	-5 to 5V	Serial data
X320.A4	GND		A200, MBIQ		
X320.A5	SYMB_SER	Bidirectional	A3, FRO, SYM CLK	-5 to 5V	Serial symbol clock
X320.A6	GND		A200, MBIQ		
X320.A7	BURST GATE	Bidirectional	PAR. DATA, X203.22	-5 to 5V	Level blanking
X320.A8	LEV ATT	Bidirectional	PAR. DATA, X203.9	-5 to 5V	Level reduction
X320.A9	CW	Bidirectional	PAR. DATA, X203.21	-5 to 5V	Modulation off
X320.A10	LEV ATT_MOD	Output	A240, IQMOD, X240.A10		Level reduction
X320.A11	GND		A200, MBIQ		Ground
X320.A12	SERBUS-CLK	Input	A3, FRO, X31.40	HCT level	SERBUS
X320.A13	GND		A200, MBIQ		
X320.A14	SERBUS-OUT	Output	A3, FRO, X31.39	HCT level	SERBUS
X320.A15	SERBUS-IN	Input	A3, FRO, X31.39	HCT level	SERBUS
X320.A16	SERBUS-SYNC	Input	A3, FRO, X31.37	HCT level	SERBUS
X320.A17	SERBUS-INT	Output	A3, FRO, X31.38	HCT level	SERBUS
X320.A18	RESET-P	Input	A3, FRO, X31.28	HCT level	SERBUS
X320.A19	DIAG-5V	Output	A3, FRO, X31.44	-5 to +5V	Diagnosis
X320.A20	READY_MCOD	Output	A3, FRO, X31.31	HCT level	/DSP-Busy
X320.A21	GND		A200, MBIQ		Ground
X320.A22	VA24-P		A2, POWS1	+23.6 to +25.4V I_{max}=20mA	Current supply
X320.A23	GND		A200, MBIQ		Ground
X320.A24	VA15-P		A2, POWS1	+14.7 to +15.9V I_{max}=0.7A	Current supply
X320.A25	GND		A200, MBIQ		Ground
X320.A26	VA7.5-P		A2, POWS1	+7.4 to +8.0V Imax=0.6A	Current supply
X320.A27	GND		A200, MBIQ		Ground
X320.A28	VD5-P		A2, POWS1	+5.1 to +5.3V I_{max}=1.2A	Current supply
X320.A29	GND		A200, MBIQ		Ground
X320.A30	VA15-N		A2, POWS1	-15.9 to -14.7V I_{max}=50mA	Current supply
X320.A31	GND		A200, MBIQ		Ground
X320.A32	VD5-N		A2, POWS1	-4.8 to -5.3V I_{max}= 0.5A	Current supply

Motherboard:

Pin	Name	Input/ output	Origin/Target	Value range	Signal description
X320.B1	BITCLK_PAR	Bidirectional	PAR. DATA, X203.20	-5 to 5V	Parallel bit clock
X320.B2	GND		A200, MBIQ		Ground
X320.B3	SYMBCLK_PAR	Bidirectional	PAR. DATA, X203.7	-5 to 5V	Parallel symbol clock
X320.B4	DONE	Output	A3, FRO, X50.47	HCT level, OC.	Setting complete
X320.B5	DATA_PAR D0	Bidirectional	PAR. DATA, X203.6	-5 to 5V	Parallel data D0, from/to RW
X320.B6	DATA_PAR D1	Bidirectional	PAR. DATA, X203.18	-5 to 5V	Parallel Data D1
X320.B7	DATA_PAR D2	Bidirectional	PAR. DATA, X203.5	-5 to 5V	Parallel Data D2
X320.B8	DATA_PAR D3	Bidirectional	PAR. DATA, X203.16	-5 to 5V	Parallel Data D3
X320.B9	DATA_PAR D4	Bidirectional	PAR. DATA, X203..4	-5 to 5V	Parallel Data D4
X320.B10	DATA_PAR D5	Bidirectional	PAR. DATA, X203.16	-5 to 5V	Parallel Data D5
X320.B11	DATA_PAR D6	Bidirectional	PAR. DATA, X203.3	-5 to 5V	Parallel Data D6
X320.B12	DATA_PAR D7	Bidirectional	PAR. DATA, X203.15	-5 to 5V	Parallel Data D7
X320.B13	GND		A200, MBIQ		Ground
X320.B14	TRIGIN	Input	PAR. DATA, X203.14	-5 to 5V	Trigger, rear panel
X320.B15	TRIGIN_DGEN	Output	A340, DGEN, X340.B15	HCT level	Trigger, DGEN
X320.B16	CW_DGEN	Bidirectional	A340, DGEN, X340.B16	HCT level	Tristate, DGEN
X320.B17	LEV_ATT_DGEN	Bidirectional	A340, DGEN, X340.B17	HCT level	LEV ATT, DGEN
X320.B18	BURST GATE_DGEN	Bidirectional	A340, DGEN, X340.B18	HCT level	
X320.B19	GND		A200, MBIQ		Ground
X320.B20	DATA_DGEN D0	Bidirectional	A340, DGEN, X340.B20	HCT level	Parallel data D0, from/to DGEN
X320.B21	DATA_DGEN D1	Bidirectional	A340, DGEN, X340.B21	HCT level	Parallel data D1
X320.B22	DATA_DGEN D2	Bidirectional	A340, DGEN, X340.B22	HCT level	Parallel data D2
X320.B23	DATA_DGEN D3	Bidirectional	A340, DGEN, X340.B23	HCT level	Parallel data D3
X320.B24	DATA_DGEN D4	Bidirectional	A340, DGEN, X340.B24	HCT level	Parallel data D4
X320.B25	DATA_DGEN D5	Bidirectional	A340, DGEN, X340.B25	HCT level	Parallel data D5
X320.B26	DATA_DGEN D6	Bidirectional	A340, DGEN, X340.B26	HCT level	Parallel data D6
X320.B27	DATA_DGEN D7	Bidirectional	A340, DGEN, X340.B27	HCT level	Parallel data D7
X320.B28	VD5-P		A2, POWS1	+5.1 to +5.3V I_{max}=2.7A	Current supply
X320.B29	VD5-P		A2, POWS1		Current supply
X320.B30	TRIGOUT3_DGEN	Output	A340, DGEN, X340.B30	HCT level	Trigger signal
X320.B31	GND		A200, MBIQ		Ground
X320.B32	DATACLK_DGEN	Output	A340, DGEN, X340.B32	HCT level	Delayed symbol clock

Coaxial interfaces:

Plug	Name	Input/ output	Origin/target	Value range	Signal description
X327	I_EXT	Input/output	I	-0.5 to +.5V, R_i= 50 Ω	I/Q signals
X330	Q_EXT	Input/output	Q	-0.5 to +.5V, R_i = 50 Ω	I/Q signals
X325	I_MOD	Output	A240, IQMOD, X244 **with FSIM1/2** A360, FSIM1, X361	-0.5 to +.5V, R_i = 50 Ω	I/Q signals
X328	Q_MOD	Output	A240, IQMOD, X245 **with FSIM1/2** A360, FSIM1, X363	-0.5 to +.5V, R_i = 50 Ω	I/Q signals
X323	CTRL_REAR	Input/output	POW RAMP	0 to +1V, R_i = 10k Ω/10 Ω	Level control
X324	CTRL_MOD	Output	A240, IQMOD, X243	0 to +1V, R_i= 10 Ω	Level control
X321	REF50IN	Input	A7, REFSS, X72	50MHz, 9dBm, R_i = 50 Ω	Reference frequency input
X322	REF50OUT	Output	A8, DSYN,X81	50MHz, 9dBm, R_i = 50 Ω	Reference frequency output

SUB-D connector BERT at rear panel:

Plug	Name	Input/ output	Origin/target	Value range	Signal description
X333.1	GND		A320, MCOD, X326.1		Ground
X333.2	GND		A320, MCOD, X326.3		Ground
X333.3	GND		A320, MCOD, X326.5		Ground
X333.4	GND		A320, MCOD, X326.7		Ground
X333.5	GND		A320, MCOD, X326.9		Ground
X333.6	BER_DAT	Input	A320, MCOD, X326.2	HCT level	Data BERT
X333.7	BER_CLK	Input	A320, MCOD, X326.4	HCT level	Clock BERT
X333.8	BER_MASK	Input	A320, MCOD, X326.6	HCT level	Mask BERT
X333.9	BER_RES	Input	A320, MCOD, X326.8	HCT level	Restart BERT

SUB-D connector PARDATA at rear panel:

Pin	Name	Input/ output	Origin/Target	Value range	Signal description
X203.1	GND		A200, MBIQ		
X203.2	GND		A200, MBIQ		
X203.3	DATA_PAR_D6	Output	A320, MCOD, X320.B11	HCT level	DATA signal 6
X203.4	DATA_PAR_D4	Output	A320, MCOD, X320.B9	HCT level	DATA signal 4
X203.5	DATA_PAR_D2	Output	A320, MCOD, X320.B7	HCT level	DATA signal 2
X203.6	DATA_PAR_D0	Output	A320, MCOD, X320.B5	HCT level	DATA signal 0
X203.7	SYMBCLK_PAR	Input/output	A320, MCOD, X320.B3	HCT level	Symbol clock
X203.8	GND		A200, MBIQ		
X203.9	LEV_ATT	Output	A320, MCOD, X320.A8	HCT level	CONTROL signal for level blanking
X203.10	GND		A200, MBIQ		
X203.11	TRIGOUT_1	Output	A340, DGEN, X34.B10	HCT level	CONTROL signal for sync. purposes
X203.12	GND		A200, MBIQ		
X203.13	GND		A200, MBIQ		
X203.14	TRIGIN	Input	A320, MCOD, X320.B14	HCT level	Ext. trigger signal
X203.15	DATA_PAR_D7	Output	A320, MCOD, X320.B12	HCT level	DATA signal 7
X203.16	DATA_PAR_D5	Output	A320, MCOD, X320.B10	HCT level	DATA signal 5
X203.17	DATA_PAR_D3	Output	A320, MCOD, X320.B8	HCT level	DATA signal 3
X203.18	DATA_PAR_D1	Output	A320, MCOD, X320.B6	HCT level	DATA signal 1
X203.19	GND		A200, MBIQ		
X203.20	BITCLK_PAR	Input/output	A320, MCOD, X320.B1	HCT level	Bit clock
X203.21	CW	Output	A320, MCOD, X320.A9	HCT level	CONTROL signal for swiching off the modulation in real time
X203.22	BURST_GATE	Output	A320, MCOD, X320.A7	HCT level	CONTROL signal for level blanking
X203.23	TRIGOUT_2	Output	A340, DGEN, X34.B11	HCT level	CONTROL signal for sync purposes
X203.24	TRIGOUT_3	Output	A340, DGEN, X34.B9	HCT level	Signal for sync purposes
X203.25	HOP	Output	A340, DGEN, X34.A2	HCT level	CONTROL signal for frequency hopping

ROHDE&SCHWARZ

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

Comp. No.	Designation	Stock No.	Manufacturer	Manufacturing Designation	Included in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
C1 ..6	CC 10NF+-1% 50V NPO 1210 SMD-CERAMIC CAPACITOR	0010.3002.00	VITRAMON	VJ1210A103FXAT	
C7 ..9	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K50C500	
C10 ..17	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C18	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K50C500	
C19 ..33	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C34	CC 4,7NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8450.00	AVX	1206 5 C 472 KA 3	
C35	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C36 ..72	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C73	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39C0G***B50ZPT	
C74 ..79	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C80	CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010..D2W	
C81 ..109	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C110	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C111 ..118	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C119	CE 4,7UF+-10% 10V 3528 TANTALUM CHIP CAPACITOR	CE 0007.7275.00	SPRAGUE	293D 475 X9 010 B2T	
C120 ..123	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C124	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C125	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C126	CE 4,7UF+-10% 10V 3528 TANTALUM CHIP CAPACITOR	CE 0007.7275.00	SPRAGUE	293D 475 X9 010 B2T	
C127	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C128 ..133	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C134	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C135 ..139	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C140	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C141 ..144	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C145	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C146	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C147	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C148	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C149	CE 4,7UF+-10% 10V 3528 TANTALUM CHIP CAPACITOR	CE 0007.7275.00	SPRAGUE	293D 475 X9 010 B2T	
C150	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C151	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	AVX	1206 5A 271 F 3	
C152	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C153	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39C0G***B50ZPT	
C154	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C155	CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4609.00	MURATA	GRM39C0G***F50ZPT	
C156	CC 330PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8873.00	AVX	1206 5A 331 FAT2A	

Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C157	CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	AVX	1206 5A 271 F 3	
C158 ..162	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C163	CC 39PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.9730.00	MURATA	GRM39C0G***F50ZPT	
C164	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C165	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C166	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C167	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K50C500	
C168	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K50C500	
C169	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C170	CE 10UF+-20% 25V RM2,5 CAPACITOR	3528.5969.00	SANYO	25 SH 10 M	
C171	CE 10UF+-20% 25V RM2,5 CAPACITOR	3528.5969.00	SANYO	25 SH 10 M	
C172	CE 100UF+-20% 20V RM5 CAPACITOR	3528.5975.00	SANYO	20 SH 100 M	
C173	CE 100UF+-20% 20V RM5 CAPACITOR	3528.5975.00	SANYO	20 SH 100 M	
C174	CC 330PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8873.00	AVX	1206 5A 331 FAT2A	
C175	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C176	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C177	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C178	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C179	CC 3,3PF+-0,1PF50VC0G0603 SMD-CERAMIC CAPACITOR	CC 0008.2125.00	AVX	0603 5J 3R3 BAW	
C180	CC 3,3PF+-0,1PF50VC0G0603 SMD-CERAMIC CAPACITOR	CC 0008.2125.00	AVX	0603 5J 3R3 BAW	
C181	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C182	CC 330P 1% 50V NPO 0603 CERAMIC CAPACITOR	CC 0048.6667.00	PHILLIPS_P	2238 867 18331	
C183	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.8227.00	MURATA	GRM39C0G***F50ZPT	
C184	CK 470NF+-5% 25V PPS 2824 SMD-FILM-CAPACITOR	0010.6853.00	SIEMENS	B32740-A4474-J063	
C185	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C186	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.8227.00	MURATA	GRM39C0G***F50ZPT	
C187	CC 330P 1% 50V NPO 0603 CERAMIC CAPACITOR	CC 0048.6667.00	PHILLIPS_P	2238 867 18331	
C188	CC 270PF+-10% 50VHDK 0603 SMD CERAMIC CAPACITOR	CC 1097.6370.00	VITRAMON	VJ0603Y***KXAT	
C189	CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4538.00	MURATA	GRM39C0G***B50ZPT	
C190	CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4538.00	MURATA	GRM39C0G***B50ZPT	
C191	CC 2,2NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2964.00	MURATA	GRM42-6C0G222F50PT	
C192	CC 3,3NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2970.00	MURATA	GRM42-6C0G332F50PT	
C193	CC 3,3NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2970.00	MURATA	GRM42-6C0G332F50PT	
C194	CC 2,2NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2964.00	MURATA	GRM42-6C0G222F50PT	
C195	CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.8304.00	MURATA	GRM39C0G***B50ZPT	
C196	CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.8304.00	MURATA	GRM39C0G***B50ZPT	
C197	CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.8227.00	MURATA	GRM39C0G***F50ZPT	
C198	CC 680PF 1% 50V NPO 0603 CERAMIC CAPACITOR	CC 0048.6709.00	PHILLIPS_P	2238 867 18681	
C199	CC 3,3NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0048.5390.00	MURATA	GRM39X7R332K50C500	

Comp. No.	Designation	Stock No.	Manufacturer	Manufacturing Designation	Comp. contained in
C200	CC 3,3NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0048.5390.00	MURATA	GRM39X7R332K50C500	
C201	CC 470NF+-10%50V X7R 1812 CERAMIC CHIP CAPACITOR	CC 0007.7498.00	AVX	1812 5C 474KA TOOF	
C202	CC 82NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5220.00	PHILIPS_CO	2238 581 15648	
C203	CE 100UF+-20% 20V RM5 CAPACITOR	3528.5975.00	SANYO	20 SH 100 M	
C204	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C205	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C206 ..209	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C210	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C211	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2W	
C212	CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR	CC 0520.6873.00	KEMET	C2220C105K5RAC	
C213	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C214	CK 330NF+-5% 25V PPS 2824 SMD-FILM-CAPACITOR	0010.6660.00	SIEMENS	B32740-A4334-J063	
C215	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C216	CE 100UF+-20% 20V RM5 CAPACITOR	3528.5975.00	SANYO	20 SH 100 M	
C217	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C218	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C219	CE 100UF+-20%16V RUND SMD SMD-ELECTOLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100F(G)S	
C220	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K50C500	
C221	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K50C500	
C222 ..224	CE 10UF+-20%35V RUND SMD SMD ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100X	
C225	CC 3,3NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2970.00	MURATA	GRM42-6C0G332F50PT	
C226	CC 47NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5195.00	PHILIPS_CO	2238 581 15645	
C227	CE 1UF +-10% 25V 3528 TANTALUM CHIP CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C228	CC 120PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8838.00	AVX	1206 5 A 121 F 3	
C229	CC 470PF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4896.00	MURATA	GRM39X7R***K50C500	
C230 ..233	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C234	CC 39PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.9730.00	MURATA	GRM39C0G***F50ZPT	
C235	CE 100UF+-20%16V RUND SMD SMD-ELECTOLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100F(G)S	
C236 ..242	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C243	CE 10UF+-20%35V RUND SMD SMD ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100X	
C244 ..246	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C247	CE 10UF+-20% 25V RM2,5 CAPACITOR	3528.5969.00	SANYO	25 SH 10 M	
C248	CC 3,3NF+-1% 50V NPO 1206 SMD-CERAMIC CAPACITOR	0010.2970.00	MURATA	GRM42-6C0G332F50PT	
C249	CC 680PF 1% 50V NPO 0603 CERAMIC CAPACITOR	CC 0048.6709.00	PHILLIPS_P	2238 867 18681	
C250	CC 680PF 1% 50V NPO 0603 CERAMIC CAPACITOR	CC 0048.6709.00	PHILLIPS_P	2238 867 18681	
C251	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C252	CC 180PF+-1%50V NPO 1206 CHIP CAPACITOR	CC 0099.8844.00	AVX	1206 5 A 181 F 3	
C253	CC 150PF+-1% 50V NPO 0603 MD-CERAMIC-CAPACITOR	CC 1051.4680.00	MURATA	GRM39C0G***F50ZPT	
C254	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	

Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C255	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C256	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C257	CC 82PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 1097.6363.00	MURATA	GRM39C0G***F50ZPT	
C258	CC 56PF+-1% 50VNPO 0603 SMD CERAMIK CAPACITOR	CC 1093.6417.00	MURATA	GRM39C0G***F50ZPT	
C259	CC 82PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 1097.6363.00	MURATA	GRM39C0G***F50ZPT	
C260	CC 56PF+-1% 50VNPO 0603 SMD CERAMIK CAPACITOR	CC 1093.6417.00	MURATA	GRM39C0G***F50ZPT	
C261	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C262	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C263	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C264	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C265	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C266	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C267 ..272	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C273	CC 39PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.9730.00	MURATA	GRM39C0G***F50ZPT	
C274	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C275	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C276	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C279	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C280	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C281	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C282	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C283	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C284	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C285	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C287	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C291	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C292	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C294	CC 33PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0048.3639.00	MURATA	GRM39C0G***B50ZPT	
C296	CE 10UF+-20% 25V RM2,5 CAPACITOR	3528.5969.00	SANYO	25 SH 10 M	
C297	CE 10UF+-20%35V RUND SMD SMD ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100X	
C298	CE 100UF+-20% 20V RM5 CAPACITOR	3528.5975.00	SANYO	20 SH 100 M	
C299	CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR	CC 1097.6292.00	MURATA	GRM39 X7R 104K 16 PT	
C300 ..323	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C327 ..341	CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR	CC 1051.4697.00	AVX	CM105X7R333K25VAT	
C400	CC 10NF +-10%500VHDK1206 CERAMIC CHIP CAPACITOR	0007.8865.00	AVX	12067C103KAY1A	
D1	BL 74FCT3807PY 3.3V 1-TO-10 CLOCK DRIVER	1085.1310.00	IDT	IDT74FCT3807PY	
D2 ..4	BC KM68V4002B-12J SRAM IC MEMORY	2080.3810.00	SAMSUNG	KM68V4002B-12J	
D5	BL PC74HC4051T 8CH.AN.MUX 8CHANNEL ANAL.MULTIPLEXER	0007.3592.00	PHILIPS_SE	(PC)74HC4051(D/T)	

Comp. No.	Designation	Stock No.	Manufacturer	Bezeichnung Designation	Unterlagen in contained in
D6	BC AM29LV017B-90EC IC FLASH MEMORY	BC 1085.1390.00	AMD	AM29LV017B-90E(C/I)	
D7	BC XCS10XL-4VQ100C FPGA 466 LOGIC CELLS	1085.1426.00	XILINX	XCS10XL-4VQ100C	
D8	BC IS61LV6416-10T SRAM 3.3V STATIC RAM	BC 1104.9180.00	INTEGRATED	IS61LV6416-10T	
D9	BC IS61LV6416-10T SRAM 3.3V STATIC RAM	BC 1104.9180.00	INTEGRATED	IS61LV6416-10T	
D10	BC KM6164002BT-10 SRAM	1085.2400.00	SAMSUNG	KM6164002BT-10	
D11	BC KM6164002BT-10 SRAM	1085.2400.00	SAMSUNG	KM6164002BT-10	
D12	BL 74LVT273DB 8XD-FF 3.3V OCTAL D FLIP-FLOP	1100.4284.00	PHILIPS_SE	(74)LVT273(DB)	
D13	BC AM29LV017B-90EC IC FLASH MEMORY	BC 1085.1390.00	AMD	AM29LV017B-90E(C/I)	
D14	BC AM29LV017B-90EC IC FLASH MEMORY	BC 1085.1390.00	AMD	AM29LV017B-90E(C/I)	
D15	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D16	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D17	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D18	BL 74LVT273DB 8XD-FF 3.3V OCTAL D FLIP-FLOP	1100.4284.00	PHILIPS_SE	(74)LVT273(DB)	
D19	BL 74LVT273DB 8XD-FF 3.3V OCTAL D FLIP-FLOP	1100.4284.00	PHILIPS_SE	(74)LVT273(DB)	
D20	BL 74LVC74ADB 2XD-FF IC DUAL D-TYPE FLIP FLOP	1104.2563.00	PHILIPS_SE	74LVC74A(DB)	
D21	BL 74LVT02DB 4X2NOR 3.3V QUAD 2-IN NOR GATE	0048.3168.00	PHILIPS_SE	74LVT02DB	
D22	BC TMS320C31PQL80 DSP	1085.1378.00	TEXAS_INST	TMS320C31PQL80	
D23 ..26	BO MAX901BESE 4XCOMPAR IC COMPARATOR	1085.2274.00	MAXIM	MAX901BESE	
D27	BL 74LVT00DB 4X2NAND 3.3V QUAD 2-IN NAND GATE	0048.3151.00	PHILIPS_SE	74LVT00DB	
D28	BL PC74HCT4094T 8ST.SHREG 8-STAGE SHIFT&STORE REG.	0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D29	BL 74LVT00DB 4X2NAND 3.3V QUAD 2-IN NAND GATE	0048.3151.00	PHILIPS_SE	74LVT00DB	
D30	BL 74AC00SC 4X2IN NAND QUAD NAND GATE	BL 0820.3477.00	FAIRCHILD	74AC00SC	
D31	BL 74LVT14DB 6XINV.SCHM 3.3V 6-INV SCHMITT-TRIGG.	0048.4335.00	PHILIPS_SE	(74)LVT14(DB)	
D32	BL 74LVC74DB IC DUAL D-TYPE FLIP FLOP	1104.2563.30	PHILIPS_SE	74LVC74DB	
D33	BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE	BL 0009.5792.00	PHILIPS_SE	(74)ABT125(D)	
D34	BL 74LVT08DB 4X2AND 3.3V QUAD 2-IN AND GATE	0048.3180.00	PHILIPS_SE	74LVT08(DB)	
D35	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D36	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D37	BL 74LVT573DB 8XD-LATCH 3.3V OCTAL D-TYPE LATCH	0048.4070.00	PHILIPS_SE	(74)LVT573(DB)	
D38	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D39	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D40	BL 74LVT00DB 4X2NAND 3.3V QUAD 2-IN NAND GATE	0048.3151.00	PHILIPS_SE	74LVT00DB	
D41	BL 74ACT86SC 4X 2IN-EXOR QUAD 2-INPUT EXOR GATE	BL 2005.4307.00	HARRIS	(CD74)ACT86(M)	
D42 ..44	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH	1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D45	BL 74LVT04DB 6XINV. 3.3V HEX INVERTER	0048.3174.00	PHILIPS_SE	74LVT04DB	
D46	BS DG409DY 2X 4CHAN.MUX IC ANALOG MULTIPLEXER	1031.5452.00	SILICONIX	DG409DY	
D47	BL 74LVT32DB 4X2OR 3.3V QUAD 2-INPUT OR GATE	0048.3216.00	PHILIPS_SE	74LVT32DB	
D48	BC AM29LV017B-90EC IC FLASH MEMORY	BC 1085.1390.00	AMD	AM29LV017B-90E(C/I)	
D49	BL MC10E016 8B.BIN.ZAEHL IC 8B BIN COUNTER	BL 1043.9641.00	MOTOROLA	(MC)10E016(FN)	
D50	BL MC10E016 8B.BIN.ZAEHL IC 8B BIN COUNTER	BL 1043.9641.00	MOTOROLA	(MC)10E016(FN)	

Comp. No.	Benennung / Designation		Sachnummer / Stock No.	Hersteller / Manufacturer	Bezeichnung / Designation	enthalten in / contained in
D51	BL 74LVT32DB 4X2OR 3.3V QUAD 2-INPUT OR GATE		0048.3216.00	PHILIPS_SE	74LVT32DB	
D52	BL 74LVT16245BDL 16XTX 3S 3.3V 16BIT TRANSCEIVER 3S		0048.3339.00	PHILIPS_SE	74LVT16245B(DL)	
D53	BL 74LVTO2DB 4X2NOR 3.3V QUAD 2-IN NOR GATE		0048.3168.00	PHILIPS_SE	74LVTO2DB	
D54	BL PC74HC4051T 8CH.AN.MUX 8CHANNEL ANAL.MULTIPLEXER		0007.3592.00	PHILIPS_SE	(PC)74HC4051(D/T)	
D55	BL 74LVT273DB 8XD-FF 3.3V OCTAL D FLIP-FLOP		1100.4284.00	PHILIPS_SE	(74)LVT273(DB)	
D56	BJ CXD1171M 1X8B-DAC IC DAC		1051.5629.00	HARRIS	HI1171JCB	
D57	BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR		1036.4283.00	LINEAR_TEC	LT1117(CST)	
D58	BJ HI5741BIB 1X14B-DAC D/A CONVERTER 100MSPS		1110.3045.00	HARRIS	HI5741BIB	
D59	BJ HI5741BIB 1X14B-DAC D/A CONVERTER 100MSPS		1110.3045.00	HARRIS	HI5741BIB	
D61	BL 74LVT125DB 4XBUFF. 3S 3.3V QUAD BUFFER 3 STATE		0048.3239.00	PHILIPS_SE	74LVT125(DB)	
D62	BL 74AHC1G02DBVR SINGLE NOR GATE		1078.4330.00	TEXAS_INST	A02	
D63	BC XC4020XLA-09BG256C IC FPGA		1085.1449.00	XILINX	XC4020XLA-09BG256C	
D64	BL 74LVTO8DB 4X2AND 3.3V QUAD 2-IN AND GATE		0048.3180.00	PHILIPS_SE	74LVTO8(DB)	
D65	BJ DAC8143FS 1X12B-DAC 12B SERIAL D/A-CONVERTER		1012.9510.00	PMI	DAC8143FS	
D66	BJ DAC8143FS 1X12B-DAC 12B SERIAL D/A-CONVERTER		1012.9510.00	PMI	DAC8143FS	
D68	BL 74LVT16245BDL 16XTX 3S 3.3V 16BIT TRANSCEIVER 3S		0048.3339.00	PHILIPS_SE	74LVT16245B(DL)	
D71 ..74	BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE	BL	0009.5792.00	PHILIPS_SE	(74)ABT125(D)	
D76	BL 74LVC823ADB 9XD-FF 9BIT D-TYPE FLIP-FLOP 3S		1085.1384.00	PHILIPS_SE	(74)LVC823A(DB)	
D77	BC IS61LV6416-10T SRAM 3.3V STATIC RAM	BC	1104.9180.00	INTEGRATED	IS61LV6416-10T	
D79	BL 74LVT16244BDL 16XBUFF OCTAL BUFFER		0048.3322.00	PHILIPS_SE	(74)LVT16244B(DL)	
D81 ..84	BC LF3320QC15 FIR-FILTER IC FIR FILTER		1085.2339.00	LOGIC_DEVI	LF3320QC15	
D91	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	BG	0008.6143.00	THESYS	TH3032.1C	
D93	BL 74LVT244ADB 8XBUFF 3S 3.3V OCTAL BUFFER 3-STATE		0048.3251.00	PHILIPS_SE	(74)LVT244A(DB)	
D94	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH		1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D95	BL PC74HCT132T 4X2IN SCHM NAND SCHMITT TRIGGER	BL	0007.6340.00	PHILIPS	(PC)74HCT132(D/T)	
D107	BL 74LVC74ADB 2XD-FF IC DUAL D-TYPE FLIP FLOP		1104.2563.00	PHILIPS_SE	74LVC74A(DB)	
D108	BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH		1110.3039.00	TEXAS	(SN74)CBT16233(DL)	
D111	BC X24164S8 2KBITX8 I2C-BUS SERIAL EEPROM		2013.8937.00	ATMEL	AT24C164-10SC-2.7	
D113	BL 74LVC138DB 3TO8 DEC LINE DECODER	BL	1104.2592.00	PHILIPS_SE	74LVC138ADB	
D114	BL 74ACT138SC 3TO8 DECOD 3-TO-8 DECODER/DEMUX	BL	2007.5017.00	HARRIS	CD74ACT138(M)	
D119	BC IS61LV6416-10T SRAM 3.3V STATIC RAM	BC	1104.9180.00	INTEGRATED	IS61LV6416-10T	
D120	BL 74LVC169DB 4B BIN CNT IC 4BIT BIN U/D COUNTER	BL	1093.6381.00	PHILIPS_SE	74LVC169DB	
D121	BL 74LVC169DB 4B BIN CNT IC 4BIT BIN U/D COUNTER	BL	1093.6381.00	PHILIPS_SE	74LVC169DB	
D122	BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR		1036.4283.00	LINEAR_TEC	LT1117(CST)	
D123	BC IS61LV6416-10T SRAM 3.3V STATIC RAM	BC	1104.9180.00	INTEGRATED	IS61LV6416-10T	
D124	BC XC4020XLA-09BG256C IC FPGA		1085.1449.00	XILINX	XC4020XLA-09BG256C	
D125	BC KM68V1002A SRAM IC MEMORY		1065.8402.00	SAMSUNG	KM68V1002(A/CJ)-12	
G1	BO REF02CS VREF IC VOLTAGE REFERENCE		0009.6882.00	ANALOG_DEV	REF02CS	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	Eliminated or contained in
G2	EO 80,000 MHZ PROG. Q-OSZ PROGR. QUARTZ CRYST. OSZ.	1085.1332.00	SEIKO	SG-8002JAPHC	
G3	EO 200-380MHZ VCO SMD VOLTAGE CONTR.OSCILLATOR	6100.8798.00	MINI-CIRCU	JTOS-400	
G4	BO REF02CS VREF IC VOLTAGE REFERENCE	0009.6882.00	ANALOG_DEV	REF02CS	
K1 ..3	SN GEPOLT 2XUM 12V MONOST RELAY	1085.1784.00	MATSUSHITA	TQ2SA-12V	
K5	SN GEPOLT 2XUM 12V MONOST RELAY	1085.1784.00	MATSUSHITA	TQ2SA-12V	
K7	SN GEPOLT 2XUM 12V MONOST RELAY	1085.1784.00	MATSUSHITA	TQ2SA-12V	
L1	LD 150NH 10% 0,39A 1210 RF CHOKE	LD 0009.5140.00	SIEMENS	B82422-A3151-J(K)100	
L2	LD 2,7UH 3% 0,37A 1812 SMD INDUCTOR	1085.2297.00	DALE	IMC-1812-2,7UH-3%	
L3	LD 100NH 1%OR26 0.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	
L4	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L5	LD 2,7UH 3% 0,37A 1812 SMD INDUCTOR	1085.2297.00	DALE	IMC-1812-2,7UH-3%	
L6	LD 2,7UH 3% 0,37A 1812 SMD INDUCTOR	1085.2297.00	DALE	IMC-1812-2,7UH-3%	
L7	LD 100NH 1%OR26 0.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	
L8	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L9	LD 100NH 1%OR26 0.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	
L10 ..15	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L16	LD 3UH 2A 0,077 OHM CHOKE	LD 0026.4532.00	FASTRON_GE	MISC-3ROM-01 (00)	
L17	LD 10UH 10% 0,18A 1210 RF CHOKE	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L18 ..21	LD SMD-DR.Z=55 OHM 300MHZ CHOKE	1085.1684.00	PHILIPS	BDS 3/3/4.6-4S2	
L22	LD 1,2UH 3% 0,43A 1812 SMD INDUCTOR	0048.6209.00	DALE	IMC-1812-1.2UH-3%	
L23	LD 1,2UH 3% 0,43A 1812 SMD INDUCTOR	0048.6209.00	DALE	IMC-1812-1.2UH-3%	
L24	LD 100NH 1%OR26 0.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	
L25	LD 3,9UH 3% 0,33A 1812 SMD INDUCTOR	0048.6238.00	DALE	IMC-1812-3.9UH-3%	
L26	LD 3,3UH 10% 0,20A 1210 RF CHOKE	LD 0856.7089.00	SIEMENS	B82422-A1332-J(K)100	
L27	LD 1,20UH10%0,180HM0,620A CHOKE	LD 0067.2870.00	DALE	IM2	
L28	LD 3UH 2A 0,077 OHM CHOKE	LD 0026.4532.00	FASTRON_GE	MISC-3ROM-01 (00)	
L29	LD 330NH 10% 0,20A 1210 RF CHOKE	LD 0520.7534.00	SIEMENS	B82422-A3331-J(K)100	
L30	LD 330NH 10% 0,20A 1210 RF CHOKE	LD 0520.7534.00	SIEMENS	B82422-A3331-J(K)100	
L31	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L32	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L33	LD 2,7UH 3% 0,37A 1812 SMD INDUCTOR	1085.2297.00	DALE	IMC-1812-2,7UH-3%	
L34	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L35	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L36	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 1012200	
L37	LD 100NH10%OR21 660MA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 1012200	
L38	LD 8,2UH 10% 0,22A 1206 CHIP COIL	4038.6830.00	STETTNER	5503 8222400	
L39	LD 10UH 10% 0,18A 1210 RF CHOKE	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L40	LD 100NH 1%OR26 0.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	

Comp. No.	Benennung / Designation	Bestellnummer / Stock No.	Hersteller / Manufacturer	Bezeichnung / Designation	Situation is contained in
L41	LD 82NH +-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-FH82NK(J)	
L42	LD 82NH +-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-FH82NK(J)	
L43	LD 3,3UH 3% 0,355A 1812 SMD INDUCTOR	1085.2280.00	DALE	IMC-1812-3,3UH-3%	
L44 ..58	LD 82NH +-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6853.00	TOKO	LL2012-FH82NK(J)	
L59	LD 10UH 10% 0,18A 1210 RF CHOKE	LD 0007.9255.00	SIEMENS	B82422-A1103-J(K)100	
L60	LD 68ONH 10% 0,6OHM 0,5A CHOKE	LD 0067.2840.00	DALE	IM2	
L61	LD 1OONH1O%OR21 66OMA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 1012200	
L62	LD 1OONH 1%OR26 O.8A 1206 CERAMIC CHIP COIL	0048.4612.00	COILCRAFT	1206CS-101XFBC	
L63	LD SMD-DR.Z=55 OHM 3OOMHZ CHOKE	1085.1684.00	PHILIPS	BDS 3/3/4.6-4S2	
L64 ..66	LD 1OONH 10% 0,44A 1210 RF CHOKE	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L67	LD 1ONH 10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-FH...K(J)	
L68	LD 1ONH 10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6699.00	TOKO	LL1608-FH...K(J)	
L69	LD 1OONH1O%OR21 66OMA1206 CERAMIC CHIP COIL	0691.0733.00	STETTNER	5503 1012200	
L265 ..268	LD 22NH 10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6730.00	TOKO	LL1608-FH...K(J)	
N1	BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER	0007.7823.00	TEXAS	TLO74A(CD)	
N3	BM MAR-6-SM DC-2.OG MMIC MICROWAVE MONOLITHIC CIRC	6024.3666.00	MINI-CIRCU	MAR-6-SM	
N4	BM MAR-6-SM DC-2.OG MMIC MICROWAVE MONOLITHIC CIRC	6024.3666.00	MINI-CIRCU	MAR-6-SM	
N5	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL O72 ACDR	
N6	BO OP97FS LP PREC OPAMP LOW POWER OPAMP	1036.4390.00	PMI	OP97F(S)	
N7	BO OP97FS LP PREC OPAMP LOW POWER OPAMP	1036.4390.00	PMI	OP97F(S)	
N8 ..13	BO MAX4104ESA OPAMP OPAMP 74OMHZ	1085.2300.00	MAXIM	MAX4104ESA	
N14 ..20	BO AD744KR FET OPAMP 5OONS SETTL. BIFET OPAMP	BO 0854.1754.00	ANALOG_DEV	(AD)744KR	
P1	FP E-PRESS STIFTLEISTE 3P CONNECTOR	0048.4712.00			
P2 ..7	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P9 ..24	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P25	FP E-PRESS STIFTLEISTE 3P CONNECTOR	0048.4712.00			
P26 ..28	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P30	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P37	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P45	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P49 ..52	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 56OR +-1% TK100 0603 SMD RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	
R2	RS 0,25W 2KOHM +-20% SMD POTENTIOMETER	RS 0007.9626.00	BI_TECHNOL	23 B R... TR	
R3	RG 56R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.9646.00	PHILIPS_CO	RC 22 H	
R4	RG 56R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.9646.00	PHILIPS_CO	RC 22 H	
R5	RG 4R75 +-1% TK250 0603 SMD RESISTOR EIA0603	0010.8379.00	PHILIPS_CO	RC 22 H	
R6	RG 68R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6930.00	PHILIPS_CO	RC 22 H	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
R7 ..10	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R11	RG 33R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6918.00	PHILIPS_CO	RC 22 H	
R12	RG 7K5 +-1% TK100 0603 SMD RESISTOR EIA0603	0010.8440.00	PHILIPS_CO	RC 22 H	
R13	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R14 ..29	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R30	RG 126 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.9246.00	PHILIPS_CO	MPC 01	
R31	RG 68R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6930.00	PHILIPS_CO	RC 22 H	
R32	RG 137 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.9252.00	PHILIPS_CO	MPC 01	
R33	RG 137 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.9252.00	PHILIPS_CO	MPC 01	
R34	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R35	RG 126 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.9246.00	PHILIPS_CO	MPC 01	
R36	RG 2K2 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7008.00	PHILIPS_CO	RC 22 H	
R37	RG 221 OHM+-0,1%TK25 1206 CHIP RESISTOR	1110.3080.00	PHILIPS_CO	MPC 01	
R38	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R39 ..41	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R42	RG 7K5 +-1% TK100 0603 SMD RESISTOR EIA0603	0010.8440.00	PHILIPS_CO	RC 22 H	
R43	RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR	0009.7666.00	PHILIPS_CO	MPC 01	
R44	RG 698 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206	0009.9946.00	PHILIPS_CO	MPC 01	
R45	RG 220R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R46	RG 20KOH +-0,1% TK25 1206 SMD-RESISTOR	0009.7643.00	PHILIPS_CO	MPC 01	
R47	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R48	RG 56R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.9646.00	PHILIPS_CO	RC 22 H	
R49	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R50	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R51	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R52	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R53	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R54 ..56	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R57	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R58	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R59	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R60	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R61	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R62	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R63	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R64	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R65	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R66 ..69	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R70	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	

Comp. No.	Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R71	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R72	RG 33R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6918.00	PHILIPS_CO	RC 22 H	
R73	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R74	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R75	RG 39R2 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9400.00	PHILIPS_CO	RC 22 H	
R76	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R77	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R78 ..81	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R82	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R83	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R84 ..89	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R90 ..92	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R93	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R94 ..100	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R101	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R102	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R103	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R104	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R105	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R106	RG 12K1 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8462.00	PHILIPS_CO	RC 22 H	
R107 ..109	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R110	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R111	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R112	RG 560R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9630.00	DRALORIC	CR 0603	
R113 ..117	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R118	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R119	RG 130R +-1% TK100 SMD RESISTOR EIA0603	0603	1078.3110.00	PHILIPS_CO	RC 22 H	
R120	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R121	RG 1RO 1% 1W SMD RESISTOR	1218	0048.5219.00	PHILIPS_CO	PRC201-1R 1% TK200	
R122	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R123	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R124	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R125	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R126	RG 4K32 +-1% TK100 SMD-RESISTOR EIA0603	0603	0048.6438.00	DRALORIC	CR 0603	
R127	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R128	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R129	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R130 ..132	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R133	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	ROEDERSTEI	D25	

Comp. No.	Designation		Stock No.	Manufacturer	Designation	contained in
R134	RG 10,0KOHM+-1%TK100 RG CHIP RESISTOR	1206	RG 0007.0793.00	ROEDERSTEI	D25	
R135	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R136	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R137	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R138 ..140	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R141	RG 7K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8440.00	PHILIPS_CO	RC 22 H	
R142	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R143	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R144	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R145	RG 5,11KOH+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8185.00	PHILIPS_CO	MPC 01	
R146	RG 5,11KOH+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8185.00	PHILIPS_CO	MPC 01	
R147	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R148	RG 20K +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9100.00	PHILIPS_CO	RC 22 H	
R149	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R150	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R151	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R152	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R153	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R154	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R155	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R156	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R157	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R158	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R159	RG 1R +-1% TK250 SMD RESISTOR EIA0603	0603	0048.4187.00	PHILIPS_CO	RC 22 H	
R160	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R161	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R162	RG 1R +-1% TK250 SMD RESISTOR EIA0603	0603	0048.4187.00	PHILIPS_CO	RC 22 H	
R163	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R164	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R165	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R166	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R167	RG 3R32 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R168	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R169	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R170	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R171	RG 3R32 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R172	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R173	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R174	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	

Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R175	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R176	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R177	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R178	RG 33R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6918.00	PHILIPS_CO	RC 22 H	
R179	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R180	RG 49R9 1% 1W SMD RESISTOR	1218	0048.5083.00	PHILIPS_CO	PRC201-49R9 1% TK100	
R181	RG 33K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7066.00	PHILIPS_CO	RC 22 H	
R182	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	PHILIPS_CO	RC 22 H	
R183	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	PHILIPS_CO	RC 22 H	
R184	RG 392R+-1% TK100 SMD RESISTOR EIA0603	0603	0010.9300.00	PHILIPS_CO	RC 22 H	
R185	RG 392R+-1% TK100 SMD RESISTOR EIA0603	0603	0010.9300.00	PHILIPS_CO	RC 22 H	
R186	RG 234 OHM+-0,1%TK25 RESISTOR	1206	0010.3990.00	PHILIPS_CO	MPC 01	
R187	RG 234 OHM+-0,1%TK25 RESISTOR	1206	0010.3990.00	PHILIPS_CO	MPC 01	
R188	RG 9K09 +-1% TK100 SMD-RESISTOR EIA0603	0603	RG 0048.7305.00	PHILIPS_CO	RC 22 H	
R189	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R190	RG 1K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6999.00	PHILIPS_CO	RC 22 H	
R191 ..194	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R195	RG 1K62 +-1% TK100 SMD RESISTOR	0603	0048.6038.00	PHILIPS_CO	RC 22 H	
R196	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R197	RG 221 OHM+-0,1%TK25 CHIP RESISTOR	1206	1110.3080.00	PHILIPS_CO	MPC 01	
R198	RG 1,82KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.8010.00	PHILIPS_CO	MPC 01	
R199	RG 2K2 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
R200	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	SMD	RS 0007.9632.00	BI_TECHNOL	23 B R... TR	
R201	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R202	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R203	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R204	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	SMD	RS 0007.9632.00	BI_TECHNOL	23 B R... TR	
R205	RG 20KOH +-0,1% TK25 SMD-RESISTOR	1206	0009.7643.00	PHILIPS_CO	MPC 01	
R206	RG 5R6 1% 1W SMD RESISTOR	1218	0048.5077.00	PHILIPS_CO	PRC201-5R6 1% TK200	
R207	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R208	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R209	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R210	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R211	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R212	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R213	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R214 ..218	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R219	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R220	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	

Comp. No.	Designation		Stock No.	Hersteller / Manufacturer	Bezeichnung / Designation	enthalten in / contained in
R221	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R222	RG 10,0KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.7666.00	PHILIPS_CO	MPC 01	
R223	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R224	RG 10,0KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.7666.00	PHILIPS_CO	MPC 01	
R225	RG 10,0KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.7666.00	PHILIPS_CO	MPC 01	
R226	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R227	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R228	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R229 ..231	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R232	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R233	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R234	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	PHILIPS_CO	RC 22 H	
R235	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	PHILIPS_CO	RC 22 H	
R236	RG 20KOH +-0,1% TK25 SMD-RESISTOR	1206	0009.7643.00	PHILIPS_CO	MPC 01	
R237 ..239	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R240	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R241	RG 33R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6918.00	PHILIPS_CO	RC 22 H	
R242	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R243	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R244 ..250	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R251	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R252	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R253	RG 47K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7072.00	PHILIPS_CO	RC 22 H	
R254	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R255	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R256	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R257	RG 560R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9630.00	DRALORIC	CR 0603	
R258	RG 200R +-1% TK100 SMD RESISTOR EIA0603	0603	1097.6386.00	PHILIPS_CO	RC 22 H	
R259	RG 200R +-1% TK100 SMD RESISTOR EIA0603	0603	1097.6386.00	PHILIPS_CO	RC 22 H	
R260	RG 7K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8440.00	PHILIPS_CO	RC 22 H	
R261	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R262	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R263	RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9269.00	PHILIPS_CO	MPC 01	
R264	RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9269.00	PHILIPS_CO	MPC 01	
R265 ..268	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R269	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R270	RG 511 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8810.00	PHILIPS_CO	MPC 01	
R271	RG 511 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8810.00	PHILIPS_CO	MPC 01	
R272	RG 2K2 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7008.00	PHILIPS_CO	RC 22 H	

Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R273	RG 2K2 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
R274	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R275	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R276	RG 3,48KOH+-0,1%TK25 RESISTOR	1206	0010.2870.00	PHILIPS_CO	MPC 01	
R277	RG 9K09 +-1% TK100 SMD-RESISTOR EIA0603	0603	RG 0048.7305.00	PHILIPS_CO	RC 22 H	
R278	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R279	RG 221 OHM+-0,1%TK25 CHIP RESISTOR	1206	1110.3080.00	PHILIPS_CO	MPC 01	
R280	RG 1K82 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8404.00	PHILIPS_CO	RC 22 H	
R281	RG 1K82 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8404.00	PHILIPS_CO	RC 22 H	
R282	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R283	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R284 ..287	RG 22K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7050.00	PHILIPS_CO	RC 22 H	
R288	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R289	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R290	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R291	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R292	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	PHILIPS_CO	RC 22 H	
R293	RG 825R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8391.00	PHILIPS_CO	RC 22 H	
R294	RG 680R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R295	RG 825R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8391.00	PHILIPS_CO	RC 22 H	
R296	RG 680R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R297	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R298	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R299	RG 1K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6999.00	PHILIPS_CO	RC 22 H	
R300	RG 1K82 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8404.00	PHILIPS_CO	RC 22 H	
R301 ..316	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R317	RG 10,0KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.7666.00	PHILIPS_CO	MPC 01	
R318 ..322	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R323	RG 1K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6999.00	PHILIPS_CO	RC 22 H	
R324	RG 1K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6999.00	PHILIPS_CO	RC 22 H	
R325	RG 1,0 KO +-0,1%TK25 SMD-RESISTOR	1206	0009.7595.00	PHILIPS_CO	MPC 01	
R326	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R327	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R328	RG 1,0 KO +-0,1%TK25 SMD-RESISTOR	1206	0009.7595.00	PHILIPS_CO	MPC 01	
R329	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R330	RG 1,82KOH+-0,1%TK25 SMD-RESISTOR	1206	0009.8010.00	PHILIPS_CO	MPC 01	
R331	RG 348 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8791.00	PHILIPS_CO	MPC 01	
R332	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R333 ..348	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	DRALORIC	CR 1206	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	Element is contained in
R349	RG 100 OHM+-0,1%TK25 1206 SMD-RESISTOR	0009.8033.00	PHILIPS_CO	MPC 01	
R350	RG 100 OHM+-0,1%TK25 1206 SMD-RESISTOR	0009.8033.00	PHILIPS_CO	MPC 01	
R351	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R352	RG 100 OHM+-0,1%TK25 1206 SMD-RESISTOR	0009.8033.00	PHILIPS_CO	MPC 01	
R353 ..357	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	DRALORIC	CR 1206	
R358	RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R359	RG 61R9 +-1%TK100 0603 SMD RESISTOR EIA0603	0048.4841.00	PHILIPS_CO	RC 22 H	
R360	RG 61R9 +-1%TK100 0603 SMD RESISTOR EIA0603	0048.4841.00	PHILIPS_CO	RC 22 H	
R361	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R362	RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R363	RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R364 ..367	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R368	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R369	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R370	RG 392R+-1% TK100 0603 SMD RESISTOR EIA0603	0010.9300.00	PHILIPS_CO	RC 22 H	
R371	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R372	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R373 ..375	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R376	RG 20K +-1% TK100 0603 SMD RESISTOR EIA0603	0010.9100.00	PHILIPS_CO	RC 22 H	
R377	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R378 ..382	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R383	RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R384 ..388	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R389	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R390 ..393	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R394	RG 1R +-1% TK250 0603 SMD RESISTOR EIA0603	0048.4187.00	PHILIPS_CO	RC 22 H	
R395 ..397	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R398	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R399 ..401	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R402	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R403 ..409	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R410	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R411	RG 30K1+-1% TK100 0603 SMD RESISTOR EIA0603	0010.9281.00	PHILIPS_CO	RC 22 H	
R412 ..416	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R417 ..419	RG 30K1+-1% TK100 0603 SMD RESISTOR EIA0603	0010.9281.00	PHILIPS_CO	RC 22 H	
R420 ..425	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R426	RG 20K +-1% TK100 0603 SMD RESISTOR EIA0603	0010.9100.00	PHILIPS_CO	RC 22 H	
R427	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R428	RG 1K5 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6999.00	PHILIPS_CO	RC 22 H	

Comp. No.	Benennung / Designation		Sachnummer / Stock No.	Hersteller / Manufacturer	Bezeichnung / Designation	enthalten in / contained in
R429	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R430	RG 3R32 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R431 ..433	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R434	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R435 ..439	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R440	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R441 ..450	RG 100K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R451	RG 909 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9969.00	PHILIPS_CO	MPC 01	
R452	RG 909 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9969.00	PHILIPS_CO	MPC 01	
R453	RG 100K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R454	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R455	RG 100K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R456	RG 8K25 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8456.00	PHILIPS_CO	RC 22 H	
R457	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R458	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R459	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R460	RG 47K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7072.00	PHILIPS_CO	RC 22 H	
R461	RG 200 OHM+-0,1%TK25 CHIP RESISTOR	1206	1110.3074.00	PHILIPS_CO	MPC 01	
R462	RG 200 OHM+-0,1%TK25 CHIP RESISTOR	1206	1110.3074.00	PHILIPS_CO	MPC 01	
R463	RG 348 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8791.00	PHILIPS_CO	MPC 01	
R464	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R465	RS 0,25W200 OHM+-20% POTENTIOMETER	SMD	RS 0007.9590.00	BI_TECHNOL	23 B R... TR	
R466	RG 909R +-1% TK100 SMD RESISTOR EIA0603	0603	2074.8943.00	PHILIPS_CO	RC 22 H	
R467	RS 0,25W200 OHM+-20% POTENTIOMETER	SMD	RS 0007.9590.00	BI_TECHNOL	23 B R... TR	
R468	RG 909R +-1% TK100 SMD RESISTOR EIA0603	0603	2074.8943.00	PHILIPS_CO	RC 22 H	
R469	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R470	RG 3,48KOH+-0,1%TK25 RESISTOR	1206	0010.2870.00	PHILIPS_CO	MPC 01	
R471	RS 0,25W100KOHM+-20% POTENTIOMETER	SMD	RS 0007.9678.00	BI_TECHNOL	23 B R... TR	
R472	RG 56R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9646.00	PHILIPS_CO	RC 22 H	
R473	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R474	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R475	RG 30K1+-1% TK100 SMD RESISTOR EIA0603	0603	0010.9281.00	PHILIPS_CO	RC 22 H	
R476	RG 33K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7066.00	PHILIPS_CO	RC 22 H	
R477 ..480	RG 1K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6999.00	PHILIPS_CO	RC 22 H	
R481	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R482 ..485	RG 137 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9252.00	PHILIPS_CO	MPC 01	
R486	RG 12K1 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8462.00	PHILIPS_CO	RC 22 H	
R487	RG 221 OHM+-0,1%TK25 CHIP RESISTOR	1206	1110.3080.00	PHILIPS_CO	MPC 01	
R488 ..490	RG 0-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	

Comp. No.	Designation		Stock No.	Manufacturer	Designation	Information in contained in
R491	RG 1R +-1% TK250 SMD RESISTOR EIA0603	0603	0048.4187.00	PHILIPS_CO	RC 22 H	
R492	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R493	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R494	RG 698 OHM+-O,1%TK25 SMD-RESISTOR EIA1206	1206	0009.9946.00	PHILIPS_CO	MPC O1	
R495	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R496	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R497	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R498	RG 22OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R499	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R500	RG 1OR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R501	RG 4R75 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8379.00	PHILIPS_CO	RC 22 H	
R502	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R503	RG 33OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6960.00	PHILIPS_CO	RC 22 H	
R504	RG 33OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6960.00	PHILIPS_CO	RC 22 H	
R505	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	PHILIPS_CO	RC 22 H	
R506	RG 12K1 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8462.00	PHILIPS_CO	RC 22 H	
R507	RG 4R75 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8379.00	PHILIPS_CO	RC 22 H	
R508	RG 2K74 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8410.00	PHILIPS_CO	RC 22 H	
R509	RG 1OOK +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R510	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R511	RG 1OOK +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R512	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R513	RG 1OOK +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R514	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R515	RG 15OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R516	RG 15OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R517	RG 15OK +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7095.00	PHILIPS_CO	RC 22 H	
R518	RG 1O,OKOH+-O,1%TK25 SMD-RESISTOR	1206	0009.7666.00	PHILIPS_CO	MPC O1	
R519	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R520	RG 15OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R521	RG 15OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R522	RG 1OR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R523	RG 1OR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R524	RG 1OOR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R525	RG 1OR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R526	RG 1OR +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R527	RG 15OR +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R528	RG 1OOK +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R529	RG 3R32 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8362.00	PHILIPS_CO	RC 22 H	

Comp. No.	Designation		Stock No.	Manufacturer	Designation	enthalten in contained in
R530	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R531	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R532	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R533 ..535	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R536	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R537	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R538	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R539 ..541	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R542	RG 12K1 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8462.00	PHILIPS_CO	RC 22 H	
R543	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R544	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R545	RG 100K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	PHILIPS_CO	RC 22 H	
R546 ..549	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R550	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603 NICHT BESTUECKT/NOT FITTED	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R551	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R552	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R553	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R554	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R555	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R556	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R557	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R558	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R559	RG 5K62 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8433.00	PHILIPS_CO	RC 22 H	
R560	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R561	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R562	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R563	RG O-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 O OHM	
R564	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R565	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	PHILIPS_CO	RC 22 H	
R566	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R567	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R568	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R569	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R570	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R571	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R572	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R573	RG 4K7 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R574	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	Documentation contained in
R575	RG 1OR +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R576	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R577	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R578	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R579	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R580	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R581	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R582	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R583 ..586	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R587	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R588	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R589	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R590	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R591	RG 3R32 +-1% TK250 0603 SMD RESISTOR EIA0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R592	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R593	RL 0,4OW 4,75KOHM+-1%TK50 RESISTOR	RL 0092.1521.00	RESISTA	MK1	
R598 ..615	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R621 ..627	RG 1OOR +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R628	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R629	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R630	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R631	RG 47K +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7072.00	PHILIPS_CO	RC 22 H	
R639	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R641	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R652	RG 1OK +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R666	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R667	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R700	RG 5R6 1% 1W 1218 SMD RESISTOR	0048.5077.00	PHILIPS_CO	PRC201-5R6 1% TK200	
U1	BV PT78HT233S 2A SWITCHING REGULATOR	1085.2397.00	POWER_TREN	PT78HT233S	
U2 ..4	BO LM339D 4X COMPAR COMPARATOR	0007.3757.00	SIGNETICS	LM-339D	
U11	BO LM2903D 2XLP COMPAR DUAL	0520.7734.00	SIGNETICS	LM2903(D)	
V1 ..4	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V5 ..9	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V10	AK BC860B P 45V 150MA TRANSISTOR	AK 0007.7975.00	MOTOROLA	BC860B	
V11 ..15	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V16	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V17	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V18	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	

Comp. No.	Bezeichnung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V19	AE BZV55/C7V5 0,5W ZDI ZENER DIODE	AE 0007.3428.00	PHILIPS_SE	BZV55B7V5	
V20	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V21	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V22	AD BAW56 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0012.9350.00	PHILIPS	BAW56 (A1P)	
V23	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V24	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V25	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V26	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V27	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V28	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V29	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V30	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V31	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V32	AK BFT92 PNP 15V 25MA 5 GHZ WIDEBAND TRANSISTOR	AK 1075.4068.00	SIEMENS	BFT92 (-F1062)	
V33	AK BFT92 PNP 15V 25MA 5 GHZ WIDEBAND TRANSISTOR	AK 1075.4068.00	SIEMENS	BFT92 (-F1062)	
V34	AE BZX284-B2V7 0,4W ZDI ZENER DIODE	0048.3345.00	PHILIPS_SE	BZX284-B2V7	
V35	AK BFS20 N 20V 25MA TRANSISTOR	AK 0010.6482.00	PHILIPS	BFS20	
V36	AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE	0010.9346.00	PHILIPS_SE	BAS216	
V37 ..52	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V53 ..55	AE HSMS2800 SCHOTTKY SCHOTTKY DIODE	AE 0836.8421.00	HEWLETT_PA	HSMS-2800(#L31)	
V59 ..62	AK BC850B N 45V 100MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V64	AK BC850B N 45V 100MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V66	AK BC850B N 45V 100MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V68	AD BAV70 70V DUO UDI DUAL DIODE COMMON CATHODE	0007.9278.00	PHILIPS	BAV70	
V69	AD BAV70 70V DUO UDI DUAL DIODE COMMON CATHODE	0007.9278.00	PHILIPS	BAV70	
V73	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V74	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V75	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V76	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V77	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V78	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V79	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V80	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V81	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V82	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V83	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V84	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V85	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V86	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	

Comp. No.	Designation	Stock No.	Manufacturer	Manufacturer Designation	Comp. No. contained in
V87	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V88 ..90	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V91 ..93	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V94	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V95	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V96	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V97	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V98	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V99	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V100	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V101	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V102	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V103	AM SST108 N-D 25V JFET JUNCTION FET	6007.3949.00	SILICONIX	SST108	
V104	AM BSS138 N-E 50V MOSF MOSFET	0520.7740.00	SIEMENS	BSS138 (-S566)	
V116	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
X1	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1190	
X2	FJ EINLOETBUCHSE MMCX SMD CONNECTOR	1075.4045.00	SUHNER	82MMCX-S50-0-51/1190	
X320	FP STECKERLEISTE 64P. CONNECTOR 64P.	FP 0008.5747.00	DEUT_ELCO	16 8457 064 002 025	
X321 ..325	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KG	
X326	FP STECKERLEISTE 10P.WIN CONNECTOR	FP 0738.5335.00	SIEMENS	V23535-A2210-A102	
X327	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KG	
X328	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KG	
X330	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KG	
X11A	FP E-PRESS STIFTLEISTE 6P CONNECTOR	0048.4741.00			
X11B	FP E-PRESS STIFTLEISTE 6P CONNECTOR NICHT BESTUECKT/NOT FITTED	0048.4741.00			
Z1 ..3	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z4 ..10	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z11 ..14	LD PI-FILTER 2X1NF SMD SMD-CERAMIC-PI-FILTER	4024.7152.00	TUSONIX	4700-003	
Z15 ..46	LD T-FILTER 33PF SMD SMD-T-FILTER 33PF	1062.6744.00	MURATA	NFM61R00T330	
Z47	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z48	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z49	LD PI-FILTER 2X1NF SMD SMD-CERAMIC-PI-FILTER	4024.7152.00	TUSONIX	4700-003	
Z50	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z51	LD PI-FILTER 2X1NF SMD SMD-CERAMIC-PI-FILTER	4024.7152.00	TUSONIX	4700-003	
Z53 ..56	LD T-FILTER 33PF SMD SMD-T-FILTER 33PF	1062.6744.00	MURATA	NFM61R00T330	

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

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
C1	B	275	98	5E	18
C2	B	273	98	5E	18
C3	A	275	76	7E	18
C4	A	296	77	7C	18
C5	B	294	97	5C	18
C6	B	296	97	5C	18
C7	A	175	51	6C	7
C8	A	212	49	2C	7
C9	A	189	52	6A	7
C10	A	223	36	4F	2
C11	B	85	45	4E	2
C12	B	53	105	7E	4
C13	B	33	123	6E	4
C14	B	65	126	6E	4
C15	B	51	137	5E	4
C16	B	27	137	2B	4
C17	B	50	95	8F	4
C18	A	179	36	4A	7
C19	B	81	104	1F	3
C20	B	15	96	8F	4
C21	A	58	127	2F	4
C22	B	42	44	4E	20
C23	B	169	23	3D	2
C24	B	34	96	8F	4
C25	B	31	96	8F	4
C26	A	30	110	1E	4
C27	A	58	120	3E	4
C28	B	41	58	4E	20
C29	A	58	112	3F	4
C30	A	30	72	7F	5
C31	B	83	67	1F	5
C32	A	24	85	6E	5
C33	A	24	69	6E	5
C34	B	227	45	8C	8
C35	B	227	58	8B	8
C36	B	45	84	2F	5
C37	B	33	84	3F	5
C38	B	21	84	2F	5
C39	A	48	69	5E	5
C40	B	105	70	1E	12
C41	B	101	79	1F	12
C42	B	112	83	2E	12
C43	A	247	91	3E	12
C44	A	46	54	2F	6
C45	B	76	49	2F	6
C46	A	34	63	3F	6
C47	A	68	59	3F	6
C48	A	179	52	7C	7
C49	A	193	53	7A	7
C50	A	195	58	1E	7
C51	B	166	62	3E	7
C52	A	166	88	9D	9
C53	A	170	93	10D	9
C54	A	176	87	11D	9
C55	A	171	82	11D	9
C56	B	198	60	4D	7
C57	A	254	59	1E	8
C58	A	232	60	7E	8
C59	A	247	43	3F	8
C60	B	236	51	6F	8
C61	B	236	60	5E	8
C62	A	238	88	3E	12
C63	A	247	50	3F	8
C64	A	142	63	4F	10
C65	B	150	50	3E	10
C66	A	145	78	5E	10
C67	B	151	66	4E	10
C68	A	103	51	3E	11
C69	B	126	64	4E	11
C70	A	115	51	6E	11
C71	B	110	64	4E	11
C72	B	246	47	4E	8
C73	A	25	28	10C	19
C74	B	88	50	2C	12
C75	A	48	85	5E	5
C76	A	65	69	5E	5
C77	A	65	85	6E	5
C78	A	106	120	1F	13
C79	A	120	120	1F	13
C80	B	149	70	3F	10
C81	A	71	92	5F	3
C82	A	87	69	5F	3
C83	A	29	116	2E	4
C84	A	230	40	5A	2
C85	B	197	105	8D	15
C86	B	225	114	8D	15
C87	B	205	142	9D	15
C88	B	189	118	9D	15
C89	B	223	107	9D	15
C90	B	85	40	5B	2
C91	B	189	126	4D	15
C92	B	170	141	4D	15
C93	B	188	138	5D	15
C94	B	154	122	5D	15
C95	B	166	105	5D	15
C96	A	173	37	5B	2
C97	A	208	37	5C	2
C98	B	115	41	5D	2
C99	B	216	36	5E	2
C100	B	223	90	4D	16
C101	B	200	104	4D	16
C102	B	187	87	5D	16
C103	B	187	100	4D	16
C104	B	220	102	5D	16
C105	B	232	104	9D	16
C106	B	258	74	8D	16
C107	B	223	83	9D	16
C108	B	258	86	8D	16
C109	B	225	74	8D	16
C110	A	71	99	10B	3
C111	A	242	122	4E	17
C112	B	242	130	2E	17
C113	B	225	135	2E	17
C114	B	258	130	2E	17
C115	B	242	135	2E	17
C116	A	66	90	6D	3
C117	B	292	132	3A	18
C118	A	276	132	7F	18
C119	B	266	124	4D	18
C120	B	272	101	3E	18
C121	B	266	108	3F	18
C122	B	277	68	3E	18
C123	B	273	69	3F	18
C124	A	299	128	6F	18
C125	B	269	133	3C	18
C126	B	288	124	4B	18
C127	A	300	118	2A	18
C128	A	296	132	6F	18
C129	B	294	100	2E	18
C130	B	288	108	2F	18
C131	B	294	69	5F	18
C132	B	59	84	4F	5
C133	A	274	29	12D	18
C134	A	278	115	2C	18
C135	A	291	28	12B	18
C136	B	292	40	2F	18
C137	B	271	40	1F	18
C138	B	286	33	2E	18
C139	B	269	32	1E	18
C140	A	278	128	7F	18
C141	A	72	45	5F	6
C142	A	23	19	9B	19
C143	B	63	42	2F	20
C144	B	36	30	4E	20
C145	B	44	26	4F	20
C146	A	50	24	5C	20
C147	A	61	21	6B	20
C148	A	61	13	6C	20
C149	B	62	26	5A	20
C150	B	297	69	5E	18
C151	A	289	88	6C	18
C152	A	87	79	3F	3
C153	B	193	37	3B	7
C154	A	43	116	3E	4
C155	B	12	16	8D	19
C156	B	17	29	8C	19
C157	A	267	89	6E	18
C158	B	286	73	10A	18
C159	B	286	72	10A	18
C160	B	286	51	11A	18
C161	B	265	84	9C	18
C162	B	286	84	9A	18
C163	B	24	16	9D	19
C164	B	179	44	4B	7
C165	A	185	47	4C	7
C166	B	265	83	9C	18
C167	A	207	43	2B	7
C168	B	168	38	4C	7
C169	A	172	47	4D	7
C170	B	114	19	2A	2
C171	B	182	24	2D	2
C172	B	104	20	3A	2
C173	B	199	20	3D	2
C174	B	22	30	9C	19
C175	B	265	51	11C	18
C176	B	265	73	10C	18
C177	B	63	58	2F	20
C178	B	286	98	9A	18
C179	A	277	87	6D	18
C180	A	299	87	6B	18
C181	A	47	64	4F	6
C182	B	187	45	4B	7
C183	B	193	46	3B	7
C184	B	211	66	8B	8
C185	B	17	111	1F	4
C186	B	180	37	3C	7
C187	B	173	45	4C	7
C188	B	55	30	8B	20
C189	A	277	71	7D	18
C190	A	298	70	7B	18
C191	A	273	96	6E	18
C192	A	272	56	8D	18
C193	A	293	56	8B	18
C194	A	294	96	6C	18
C195	A	278	52	8D	18
C196	A	299	52	8B	18
C197	B	41	35	9B	20
C198	B	46	30	9B	20
C199	B	248	60	4A	8
C200	B	256	60	4B	8
C201	B	222	44	8C	8
C202	B	224	59	8B	8
C203	B	226	14	3F	2
C204	A	79	63	4F	6
C205	A	45	109	3F	4
C206	B	286	83	9A	18
C207	B	286	61	10A	18
C208	B	286	63	10A	18
C209	B	286	52	10A	18
C210	B	285	136	2D	18
C211	B	267	136	2E	18
C212	B	58	17	6C	20
C213	B	230	52	7A	8
C214	B	220	64	8B	8
C215	A	203	88	8E	9
C216	B	164	21	2C	2
C217	A	236	43	6D	8
C218	B	112	97	6F	13
C219	B	203	4	2E	2
C220	A	204	37	3B	7
C221	B	102	70	5B	12
C222	B	203	60	2B	7

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
C223	B	234	64	5E	8
C224	B	238	39	6F	8
C225	A	294	73	7C	18
C226	B	225	43	8C	8
C227	B	218	43	8D	8
C228	B	251	44	3B	8
C229	B	238	49	5C	8
C230	B	265	72	10C	18
C231	B	265	63	10C	18
C232	B	265	61	10C	18
C233	B	265	52	10C	18
C234	B	293	38	10B	18
C235	B	16	44	7B	19
C236	A	14	56	3F	20
C237	A	28	55	3F	20
C238	A	62	32	5A	20
C239	B	155	40	3F	10
C240	B	157	57	3F	10
C241	B	130	53	3F	11
C242	B	116	54	4F	11
C243	B	232	34	5D	8
C244	B	146	50	5D	10
C245	B	146	58	11D	10
C246	B	108	64	6D	11
C247	B	217	21	2F	2
C248	A	273	74	7E	18
C249	B	239	62	6A	8
C250	A	236	60	6B	8
C251	B	120	59	11D	11
C252	A	38	16	10B	20
C253	B	56	25	8B	20
C254	B	136	53	2A	10
C255	B	129	69	4C	10
C256	B	107	75	4B	12
C257	B	272	117	3D	18
C258	B	273	113	3D	18
C259	B	294	116	3B	18
C260	B	294	112	4B	18
C261	B	275	36	10D	18
C262	B	297	34	10B	18
C263	B	124	79	9A	10
C264	B	99	54	2A	11
C265	A	276	135	4F	18
C266	A	47	19	5D	20
C267	A	299	121	6E	18
C268	A	279	127	7E	18
C269	A	299	127	6F	18
C270	A	301	127	7F	18
C271	A	278	121	8F	18
C272	A	278	127	8F	18
C273	B	272	39	10D	18
C274	B	235	24	10B	12
C275	B	232	24	10B	12
C276	B	131	47	2C	10
C279	A	45	127	2E	4
C280	B	286	36	11A	18
C281	A	181	58	2E	7
C282	B	265	98	9C	18
C283	B	265	36	11C	18
C284	A	98	71	4F	3
C285	A	93	82	4F	3
C287	A	169	63	3E	7
C291	A	77	87	3F	3
C292	A	85	96	9D	3
C294	B	56	22	7B	20
C296	B	148	24	2C	2
C297	B	209	5	2A	2
C298	B	132	21	2B	2
C299	A	201	64	2B	7
C300	B	252	108	3E	17
C301	B	229	108	4E	17
C302	B	252	114	3E	17
C303	B	229	114	4E	17
C304	B	106	127	8E	14

el. Kennz Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
C305	B	119	124	8E	14
C306	B	90	124	9E	14
C307	B	104	124	9E	14
C308	B	75	124	9E	14
C309	B	89	124	10E	14
C310	B	128	97	6F	13
C311	A	104	119	2F	13
C312	A	90	121	2F	13
C313	A	94	96	2F	13
C314	A	108	98	2F	13
C315	B	93	97	6F	13
C316	B	109	98	7F	13
C317	A	132	96	3F	13
C318	A	147	98	3F	13
C319	A	161	98	4F	13
C320	A	147	93	3F	13
C321	B	131	97	4F	13
C322	B	148	98	4F	13
C323	A	125	90	5F	13
C327	A	226	112	5F	17
C328	A	240	114	5F	17
C329	A	243	112	6F	17
C330	A	257	112	5F	17
C331	A	240	132	6F	17
C332	A	226	134	6F	17
C333	A	243	132	7F	17
C334	A	257	133	7F	17
C335	A	141	130	9D	14
C336	A	144	129	9D	14
C337	A	134	130	10D	14
C338	A	140	118	10D	14
C339	A	133	122	11D	14
C340	A	143	122	11D	14
C341	A	134	118	11D	14
C400				9C	10
D1	A	172	60	2E	7
D1	A	172	60	7D	7
D2	B	77	135	8B	14
D2	B	77	135	9E	14
D3	B	92	135	9B	14
D3	B	92	135	9E	14
D4	B	108	135	11B	14
D4	B	108	135	8E	14
D5	A	91	71	11D	3
D5	A	91	71	4F	3
D6	B	17	62	2F	5
D6	B	17	62	5A	5
D7	B	233	120	2C	17
D7	B	233	120	3F	17
D8	B	228	141	2F	17
D8	B	228	141	8B	17
D9	B	244	141	2F	17
D9	B	244	141	8C	17
D10	B	47	87	10C	4
D10	B	47	87	8F	4
D11	B	29	87	11C	4
D11	B	29	87	8F	4
D12	A	55	63	3F	6
D12	A	55	63	8A	6
D13	B	54	62	11A	5
D13	B	54	62	4F	5
D14	B	29	62	3F	5
D14	B	29	62	7A	5
D15	A	150	87	2A	13
D15	A	150	87	3F	13
D16	A	135	90	3F	13
D16	A	135	90	6A	13
D17	A	79	19	1F	3
D17	A	79	19	2B	3
D17	A	79	19	2B	3
D17	A	79	19	2C	3
D17	A	79	19	3A	3
D18	A	77	59	3F	6
D18	A	77	59	8C	6

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
D19	A	43	63	4F	6
D19	A	43	63	8B	6
D20	B	83	51	2F	6
D20	B	83	51	3D	6
D20	B	83	51	3E	6
D21	A	49	112	10A	4
D21	A	49	112	10B	4
D21	A	49	112	10B	4
D21	A	49	112	10C	4
D21	A	49	112	3F	4
D22	B	36	121	4A	4
D22	B	36	121	5F	4
D23	B	148	43	3E	10
D23	B	148	43	5B	10
D23	B	148	43	5C	10
D23	B	148	43	5C	10
D23	B	148	43	5C	10
D24	B	148	59	11C	10
D24	B	148	59	11C	10
D24	B	148	59	11C	10
D24	B	148	59	11C	10
D24	B	148	59	4E	10
D25	B	123	57	11B	11
D25	B	123	57	11C	11
D25	B	123	57	11C	11
D25	B	123	57	11C	11
D25	B	123	57	4E	11
D26	B	108	57	4E	11
D26	B	108	57	6C	11
D26	B	108	57	6C	11
D26	B	108	57	6C	11
D26	B	108	57	6C	11
D27	A	49	127	2F	4
D27	A	49	127	8D	4
D27	A	49	127	8D	4
D27	A	49	127	9D	4
D27	A	49	127	9D	4
D28	A	76	91	2F	3
D28	A	76	91	8C	3
D29	A	188	61	2E	7
D29	A	188	61	4E	7
D29	A	188	61	4F	7
D29	A	188	61	7B	7
D29	A	188	61	7B	7
D30	A	16	19	10C	19
D30	A	16	19	8C	19
D30	A	16	19	8C	19
D30	A	16	19	9B	19
D30	A	16	19	9C	19
D31	A	247	82	3E	12
D31	A	247	82	5E	12
D31	A	247	82	5F	12
D31	A	247	82	8A	12
D31	A	247	82	8B	12
D31	A	247	82	8B	12
D31	A	247	82	8C	12
D32	A	247	60	1F	8
D32	A	247	60	3A	8
D32	A	247	60	3B	8
D33	A	238	81	3E	12
D33	A	238	81	8D	12
D33	A	238	81	8D	12
D33	A	238	81	8E	12
D33	A	238	81	8E	12
D34	A	21	116	2E	4
D34	A	21	116	8B	4
D34	A	21	116	9B	4
D34	A	21	116	9C	4
D34	A	21	116	2C	6
D35	B	54	46	2F	20
D35	B	54	46	4B	20
D36	A	96	89	2F	13
D36	A	96	89	8A	13
D37	A	55	54	1F	6

ROHDE & SCHWARZ

Benennung: EE MODULATIONSCODER
Designation: MODULATION-CODER

Sprache: *Lang.:* de

Blatt: *Sh.:* 2 +

Aei: *C.I.:* 03.00

Typ: *Type:* SMIQB20

Datum: *Date:* 99-11-02

Abteilung: *Dpt:* 1GPK

Name: *Name:* HM

Sachnr.: *Part No.:* **1085.5250.01 XY**

Bl.-Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
D37	A	55	54	3A	6
D38	A	92	111	11A	13
D38	A	92	111	2F	13
D39	A	16	46	2B	20
D39	A	16	46	3F	20
D40	A	21	110	1E	4
D40	A	21	110	7B	4
D40	A	21	110	8A	4
D40	A	21	110	1D	5
D40	A	21	110	1D	6
D41	A	79	68	10B	3
D41	A	79	68	10E	3
D41	A	79	68	5F	3
D41	A	79	68	8E	3
D41	A	79	68	9D	3
D42	A	108	111	11C	13
D42	A	108	111	1F	13
D43	A	238	121	10A	17
D43	A	238	121	5F	17
D44	A	255	121	10C	17
D44	A	255	121	6F	17
D45	A	64	47	10A	6
D45	A	64	47	10B	6
D45	A	64	47	10B	6
D45	A	64	47	10C	6
D45	A	64	47	10C	6
D45	A	64	47	10E	6
D45	A	64	47	5F	6
D46	B	227	53	5F	8
D46	B	227	53	9B	8
D47	A	49	120	3E	4
D47	A	49	120	4F	4
D47	A	49	120	8C	4
D47	A	49	120	8C	4
D47	A	49	120	8D	4
D48	B	41	62	3F	5
D48	B	41	62	9A	5
D49	B	174	52	4E	7
D49	B	174	52	5C	7
D50	B	190	52	4E	7
D50	B	190	52	5A	7
D51	A	36	109	10A	4
D51	A	36	109	10A	4
D51	A	36	109	10B	4
D51	A	36	109	10C	4
D51	A	36	109	3F	4
D52	A	37	82	5F	5
D52	A	37	82	6C	5
D53	B	253	48	1C	8
D53	B	253	48	2B	8
D53	B	253	48	2C	8
D53	B	253	48	2C	8
D53	B	253	48	4F	8
D54	A	79	79	3F	3
D54	A	79	79	9D	3
D55	A	70	63	4F	6
D55	A	70	63	8D	6
D56	A	52	12	5B	20
D57	B	218	10	2E	2
D58	A	287	114	2A	18
D58	A	287	114	6F	18
D59	A	265	114	2C	18
D59	A	265	114	7F	18
D61	A	202	79	3B	9
D61	A	202	79	8D	9
D61	A	202	79	8D	9
D61	A	202	79	8D	9
D61	A	202	79	9E	9
D62	A	47	21	5D	20
D63	B	158	100	9A	7
D63	B	158	100	10E	9
D63	B	158	100	4A	9
D64	A	267	135	2C	18
D64	A	267	135	4D	18
D64	A	267	135	4E	18
D64	A	267	135	4E	18
D64	A	267	135	4F	18
D65	A	236	47	7A	8
D65	A	236	47	7E	8
D65	A	236	47	8D	8
D66	B	109	71	2E	12
D66	B	109	71	3B	12
D66	B	109	71	5D	12
D68	A	54	82	5F	5
D68	A	54	82	8C	5
D71	A	142	56	2B	10
D71	A	142	56	2D	10
D71	A	142	56	4A	10
D71	A	142	56	4D	10
D71	A	142	56	4F	10
D72	A	145	71	10B	10
D72	A	145	71	10D	10
D72	A	145	71	5F	10
D72	A	145	71	7B	10
D72	A	145	71	8D	10
D73	A	103	43	2B	11
D73	A	103	43	2D	11
D73	A	103	43	3E	11
D73	A	103	43	5B	11
D73	A	103	43	5D	11
D74	A	115	43	10A	11
D74	A	115	43	10D	11
D74	A	115	43	6E	11
D74	A	115	43	8A	11
D74	A	115	43	8D	11
D76	A	123	83	3C	13
D76	A	123	83	5F	13
D77	B	134	107	4B	13
D77	B	134	107	4F	13
D79	A	28	72	10C	5
D79	A	28	72	10C	5
D79	A	28	72	10D	5
D79	A	28	72	10D	5
D79	A	28	72	6F	5
D81	B	156	134	3A	15
D81	B	156	134	4E	15
D82	B	196	107	7A	15
D82	B	196	107	8E	15
D83	B	189	98	3A	16
D83	B	189	98	4E	16
D84	B	256	75	7A	16
D84	B	256	75	8E	16
D91	B	64	96	2F	3
D91	B	64	96	6A	3
D93	A	29	81	11C	5
D93	A	29	81	11D	5
D93	A	29	81	7F	5
D94	A	238	141	6A	17
D94	A	238	141	6F	17
D95	A	64	92	10B	3
D95	A	64	92	5F	3
D95	A	64	92	6D	3
D95	A	64	92	6F	3
D95	A	64	92	7D	3
D107	B	74	67	1F	5
D107	B	74	67	3C	5
D107	B	74	67	4C	5
D108	A	255	141	6C	17
D108	A	255	141	7F	17
D111	B	17	118	1F	4
D111	B	17	118	2A	4
D113	A	36	127	2E	4
D113	A	36	127	7B	4
D114	A	36	116	3E	4
D114	A	36	116	6C	4
D119	B	114	107	5D	13
D119	B	114	107	6F	13
D120	A	254	49	3D	8
D120	A	254	49	3F	8
D121	A	254	42	2D	8
D121	A	254	42	3F	8
D122	B	193	24	2D	2
D123	B	95	107	7F	13
D123	B	95	107	8D	13
D124	B	125	137	10D	14
D124	B	125	137	4C	14
D125	B	32	46	3B	20
D125	B	32	46	4F	20
G1	A	60	33	5A	20
G2	B	17	133	2B	4
G3	B	211	40	2C	7
G4	B	96	85	3A	12
K1	B	279	81	5D	18
K1	B	279	81	7C	18
K1	B	279	81	8C	18
K2	B	301	81	5B	18
K2	B	301	81	7A	18
K2	B	301	81	8A	18
K3	B	288	25	5B	19
K3	B	288	25	5D	19
K3	B	288	25	6C	19
K5	B	267	25	2B	19
K5	B	267	25	3C	19
K5	B	267	25	3D	19
K7	B	36	23	10A	20
K7	B	36	23	10B	20
K7	B	36	23	7E	20
L1	B	17	16	8D	19
L2	B	265	96	9C	18
L3	B	265	89	9C	18
L4	B	265	70	10C	18
L5	B	265	43	11C	18
L6	B	286	96	9A	18
L7	B	286	89	9A	18
L8	B	286	70	10A	18
L9	B	286	49	11A	18
L10	B	298	138	1D	18
L11	B	274	139	1E	18
L12	B	17	23	8C	19
L13	B	53	17	6C	20
L14	B	181	42	4B	7
L15	B	167	42	4C	7
L16	B	154	18	2B	2
L17	B	137	23	2C	2
L18	B	210	35	3D	2
L19	B	116	37	3C	2
L20	B	94	37	4A	2
L21	B	225	37	4E	2
L22	B	269	118	3D	18
L23	B	291	118	3B	18
L24	B	14	106	8E	4
L25	B	52	21	7B	20
L26	B	49	33	9B	20
L27	B	194	14	2E	2
L28	B	186	18	2C	2
L29	B	27	16	9D	19
L30	B	27	27	9C	19
L31	B	249	40	4B	8
L32	B	286	59	10A	18
L33	B	286	43	11A	18
L34	B	265	80	9C	18
L35	B	265	59	10C	18
L36	A	223	101	3E	17
L37	A	223	136	2E	17
L38	B	52	28	8B	20
L39	B	55	33	8B	20
L40	B	265	49	11C	18
L41	A	126	36	8E	2
L42	A	121	36	8E	2
L43	B	286	80	9A	18
L44	A	119	36	8D	2
L45	A	130	36	8D	2

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
L46	A	100	36	8D	2
L47	A	103	36	8D	2
L48	A	105	36	8C	2
L49	A	115	36	8C	2
L50	B	141	36	8C	2
L51	B	136	36	8C	2
L52	B	126	37	8B	2
L53	B	131	36	8B	2
L54	B	138	36	8B	2
L55	A	185	36	8B	2
L56	A	160	36	8A	2
L57	B	120	36	8A	2
L58	B	123	36	8A	2
L59	B	208	15	2A	2
L60	B	123	24	2A	2
L61	A	199	53	4D	7
L62	B	25	121	5E	4
L63	B	94	41	3E	2
L64	A	175	93	9D	9
L65	A	150	138	9C	14
L66	B	69	120	8D	14
L67	B	91	97	6E	13
L68	B	130	95	4E	13
L69	A	168	58	2E	7
L265	B	223	106	8D	15
L266	B	188	137	4D	15
L267	B	225	72	8D	16
L268	B	220	101	4D	16
N1	B	240	58	10C	8
N1	B	240	58	5E	8
N1	B	240	58	6A	8
N1	B	240	58	7A	8
N1	B	240	58	7F	8
N3	B	178	40	4C	7
N4	B	192	42	4B	7
N5	B	104	77	1E	12
N5	B	104	77	4B	12
N5	B	104	77	5B	12
N6	B	272	127	3C	18
N7	B	294	126	3A	18
N8	B	274	108	3E	18
N8	B	274	108	4D	18
N9	B	295	107	2E	18
N9	B	295	107	4B	18
N10	B	273	47	1F	18
N10	B	273	47	9D	18
N11	B	276	30	11D	18
N11	B	276	30	1E	18
N12	B	295	30	11B	18
N12	B	295	30	2F	18
N13	B	294	46	2E	18
N13	B	294	46	9B	18
N14	A	270	84	3E	18
N14	A	270	84	6D	18
N15	A	271	50	3E	18
N15	A	271	50	8D	18
N16	A	270	67	4E	18
N16	A	270	67	7D	18
N17	A	292	50	5E	18
N17	A	292	50	8B	18
N18	A	291	67	5E	18
N18	A	291	67	7B	18
N19	A	292	84	5E	18
N19	A	292	84	6B	18
N20	B	38	28	4E	20
N20	B	38	28	9B	20
P1	B	28	141	3B	4
P2	B	88	53	2C	12
P3	B	199	62	7B	7
P4	B	167	46	7D	7
P5	B	188	73	12B	7
P6	B	109	84	3A	12
P7	B	191	72	12C	7
P9	B	153	81	8C	7
P10	B	226	64	10B	8
P11	B	156	70	8C	7
P12	B	256	53	3C	8
P13	B	215	43	10A	8
P14	B	158	107	9C	7
P15	B	102	65	6B	12
P16	B	153	78	9C	7
P17	B	153	72	9C	7
P18	B	39	141	5B	4
P19	B	36	141	5B	4
P20	B	49	141	5B	4
P21	B	268	30	12D	18
P22	B	286	29	12B	18
P23	B	71	79	5A	4
P24	B	43	141	6A	4
P25	B	215	47	10B	8
P26	B	69	141	4B	4
P27	B	55	141	3C	4
P28	B	58	141	3C	4
P30	B	46	141	5A	4
P37	B	52	141	5B	4
P45	B	239	65	6A	8
P49	B	256	64	3B	8
P50	B	289	102	4A	18
P51	B	267	103	4C	18
P52	B	49	18	7B	20
R1	A	180	40	4A	7
R2	B	64	34	6A	20
R3	B	195	46	3B	7
R4	B	189	35	3C	7
R5	B	39	43	4E	20
R6	B	290	44	9B	18
R7	A	90	36	4D	3
R8	A	111	36	3B	2
R9	A	77	36	4A	3
R10	A	83	36	4C	3
R11	A	186	64	8B	7
R12	A	230	39	5A	2
R13	B	181	105	9D	7
R14	B	152	41	6B	10
R15	B	154	41	6C	10
R16	B	154	50	6C	10
R17	B	152	50	6C	10
R18	B	152	66	11D	10
R19	B	154	66	11C	10
R20	B	154	57	11C	10
R21	B	152	57	11C	10
R22	B	112	55	6C	11
R23	B	112	64	6C	11
R24	B	114	64	6C	11
R25	B	113	55	6C	11
R26	B	129	64	11C	11
R27	B	128	55	11C	11
R28	B	126	55	11C	11
R29	B	128	64	11C	11
R30	B	274	115	3D	18
R31	B	269	44	9D	18
R32	A	275	59	8C	18
R33	A	296	59	8A	18
R34	B	271	110	4D	18
R35	B	295	114	3B	18
R36	A	298	58	8A	18
R37	B	298	37	10B	18
R38	B	27	21	9C	19
R39	A	152	106	3C	13
R40	A	130	104	5C	13
R41	B	72	44	4D	20
R42	A	240	62	11C	8
R43	A	271	98	5E	18
R44	A	296	79	6B	18
R45	B	247	63	3B	8
R46	B	298	127	3A	18
R47	B	291	109	4B	18
R48	B	197	43	3C	7
R49	A	201	61	2B	7
R50	B	79	82	5A	3
R51	B	84	90	5A	3
R52	B	76	82	5A	3
R53	B	74	82	6A	3
R54	B	73	82	6A	3
R55	B	71	81	6A	3
R56	B	70	82	6A	3
R57	A	86	12	2C	3
R58	B	84	91	8B	3
R59	B	86	93	8B	3
R60	B	85	94	8B	3
R61	B	85	96	8B	3
R62	B	84	98	8B	3
R63	B	85	99	8B	3
R64	B	84	101	9B	3
R65	B	85	102	9B	3
R66	A	88	83	10C	3
R67	B	78	107	6B	3
R68	A	83	91	8C	3
R69	B	252	34	2A	8
R70	A	254	43	2E	8
R71	A	234	43	5D	8
R72	B	144	36	10A	2
R73	B	240	48	5B	8
R74	B	249	46	4E	8
R75	A	24	27	10C	19
R76	B	258	42	2D	8
R77	A	240	41	5F	8
R78	B	133	52	2A	10
R79	B	133	50	2B	10
R80	B	132	49	2C	10
R81	B	136	40	2D	10
R82	B	256	41	1E	8
R83	B	258	36	2D	8
R84	A	131	67	4D	10
R85	B	126	69	4C	10
R86	B	135	63	4A	10
R87	B	143	61	4C	10
R88	A	135	53	2C	10
R89	A	138	54	2A	10
R90	B	256	38	2E	8
R91	B	256	39	2E	8
R92	B	258	49	3D	8
R93	B	105	64	6B	12
R94	A	121	79	10B	10
R95	B	134	75	9A	10
R96	B	138	75	10D	10
R97	B	138	72	7D	10
R98	B	134	72	7A	10
R99	B	125	80	9A	10
R100	B	96	53	10D	10
R101	B	258	48	3D	8
R102	B	258	46	3D	8
R103	B	97	65	2B	11
R104	B	256	45	3D	8
R105	B	254	46	3D	8
R106	B	221	56	8B	8
R107	B	98	52	2A	11
R108	A	97	40	2A	11
R109	A	100	40	2D	11
R110	B	229	57	8B	8
R111	A	99	52	4D	11
R112	A	226	43	9C	8
R113	A	96	52	4A	11
R114	A	111	52	9A	11
R115	A	107	52	9C	11
R116	A	109	40	7D	11
R117	A	112	40	7A	11
R118	A	25	24	9B	19
R119	B	195	20	3D	2
R120	B	195	23	3D	2
R121	B	175	22	2D	2
R122	B	279	40	10D	18

ROHDE & SCHWARZ

Benennung: EE MODULATIONSCODER
Designation: MODULATION-CODER

Sprache: Lang.: de

Blatt: Sh.: 4 +

Aei: C.I.: 03.00

Typ: Type: SMIQB20

Datum: Date: 99-11-02

Abteilung: Dpt: 1GPK

Name: Name: HM

Sachnr.: Part No.: **1085.5250.01 XY**

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
R123	B	300	39	10B	18
R124	B	250	122	2B	17
R125	B	230	123	2B	17
R126	B	87	50	1C	12
R127	B	91	51	1B	12
R128	B	229	123	2B	17
R129	B	120	138	6A	14
R130	B	242	141	8B	17
R131	B	258	141	8C	17
R132	A	169	107	3C	15
R133	B	279	78	6D	18
R134	B	300	77	6B	18
R135	A	179	107	3E	15
R136	A	294	26	6C	19
R137	A	222	115	7C	15
R138	B	14	27	7C	19
R139	A	272	26	3C	19
R140	A	40	29	7E	20
R141	B	56	36	6A	20
R142	A	45	16	5D	20
R143	A	222	130	7E	15
R144	A	249	102	7C	16
R145	A	268	82	6D	18
R146	A	289	82	6B	18
R147	A	231	102	7E	16
R148	A	39	18	10B	20
R149	A	236	36	9A	12
R150	A	150	45	1B	10
R151	A	133	45	2D	10
R152	A	236	37	9B	12
R153	A	155	46	4B	10
R154	A	233	36	9B	12
R155	A	233	37	9C	12
R156	A	132	71	4D	10
R157	A	155	61	7D	10
R158	B	83	70	1E	5
R159	B	23	85	2E	5
R160	A	150	61	7B	10
R161	A	115	69	9B	10
R162	B	47	85	3E	5
R163	B	74	47	2E	6
R164	A	96	60	9D	10
R165	A	90	60	2D	11
R166	A	73	61	3E	6
R167	A	239	90	3E	12
R168	A	104	60	2B	11
R169	A	114	61	4B	11
R170	A	248	92	3E	12
R171	B	148	66	3E	10
R172	A	109	60	4D	11
R173	A	124	58	7B	11
R174	A	241	78	9B	12
R175	A	245	91	4F	12
R176	A	125	46	7D	11
R177	A	120	46	9D	11
R178	A	238	79	9D	12
R179	A	89	73	11D	3
R180	A	129	59	9B	11
R181	A	14	24	8B	19
R182	A	93	36	4E	3
R183	A	85	23	3D	3
R184	B	197	44	3B	7
R185	B	190	37	3C	7
R186	B	272	124	3D	18
R187	B	293	123	4B	18
R188	A	270	95	5E	18
R189	A	224	36	4F	2
R190	B	253	44	1B	8
R191	A	213	72	3E	16
R192	A	196	72	3C	16
R193	A	157	124	3B	15
R194	A	170	137	3C	15
R195	A	61	23	6C	20
R196	B	132	69	5E	10

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
R197	B	276	38	10D	18
R198	A	294	91	6B	18
R199	A	277	58	8C	18
R200	B	300	135	3A	18
R201	B	278	38	10D	18
R202	A	51	26	5C	20
R203	B	85	44	4E	2
R204	B	277	136	3C	18
R205	B	276	128	3C	18
R206	B	209	21	2E	2
R207	A	99	108	9C	13
R208	B	148	104	3B	13
R209	A	33	72	11E	5
R210	A	92	132	11C	13
R211	A	107	132	11E	13
R212	B	110	105	8D	13
R213	B	130	105	5D	13
R214	A	77	23	3A	3
R215	A	80	23	3C	3
R216	A	90	23	3D	3
R217	A	93	23	3E	3
R218	A	83	23	3C	3
R219	A	144	36	3B	2
R220	A	75	36	4B	3
R221	A	85	36	4D	3
R222	A	293	99	5C	18
R223	B	29	137	2B	4
R224	B	300	125	3A	18
R225	B	278	124	3C	18
R226	A	69	89	6F	3
R227	A	27	107	1E	4
R228	A	25	107	7B	4
R229	A	241	82	9B	12
R230	A	233	78	9D	12
R231	A	246	78	9A	12
R232	A	44	53	1E	6
R233	A	57	50	3B	6
R234	A	179	49	7C	7
R235	A	193	50	7A	7
R236	B	104	83	4A	12
R237	A	198	59	2E	7
R238	A	256	62	1E	8
R239	A	230	61	7E	8
R240	A	187	124	3D	15
R241	A	234	88	9E	12
R242	A	61	35	6C	20
R243	A	265	134	2C	18
R244	A	173	137	3E	15
R245	A	206	137	7D	15
R246	A	192	121	7C	15
R247	A	206	107	7B	15
R248	A	192	124	7E	15
R249	A	174	107	4C	15
R250	A	168	93	9D	7
R251	A	43	19	10B	20
R252	A	39	19	10B	20
R253	B	247	34	5A	8
R254	A	222	122	8C	15
R255	A	177	50	6C	7
R256	A	191	52	6A	7
R257	A	168	39	4C	7
R258	B	44	30	9B	20
R259	B	56	20	7B	20
R260	A	172	37	4B	2
R261	A	173	58	6D	7
R262	A	186	62	6B	7
R263	B	271	112	4D	18
R264	B	292	111	4B	18
R265	A	296	17	5C	19
R266	A	274	17	2C	19
R267	A	268	23	2B	19
R268	A	290	22	5B	19
R269	A	184	138	4E	15
R270	B	276	108	4D	18

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
R271	B	298	107	4B	18
R272	B	239	60	6A	8
R273	A	234	60	6B	8
R274	B	272	28	11D	18
R275	A	15	65	3D	20
R276	A	298	99	5C	18
R277	A	291	95	5C	18
R278	B	32	58	3C	20
R279	B	296	40	10B	18
R280	A	182	47	5B	7
R281	A	170	47	5D	7
R282	A	273	77	7D	18
R283	A	294	77	7B	18
R284	A	24	132	2D	4
R285	A	25	132	2D	4
R286	A	21	132	2D	4
R287	A	19	132	3D	4
R288	A	81	11	2A	3
R289	A	76	19	2A	3
R290	A	146	37	11A	2
R291	A	57	51	3B	6
R292	B	223	10	3F	2
R293	B	247	61	4A	8
R294	B	246	60	5A	8
R295	B	258	62	4B	8
R296	B	252	58	5B	8
R297	A	192	134	8E	15
R298	A	221	43	9D	8
R299	A	223	43	9C	8
R300	A	224	43	9C	8
R301	A	149	49	1B	10
R302	A	131	44	1D	10
R303	A	156	42	3B	10
R304	A	131	75	3D	10
R305	A	156	65	6D	10
R306	A	149	65	6B	10
R307	A	113	69	9B	10
R308	A	99	62	9D	10
R309	A	90	56	1D	11
R310	A	104	56	1B	11
R311	A	114	65	4B	11
R312	A	109	56	4D	11
R313	A	123	62	7B	11
R314	A	125	50	7D	11
R315	A	122	50	9D	11
R316	A	131	55	9B	11
R317	B	107	78	5B	12
R318	A	241	102	8C	16
R319	A	207	72	4C	16
R320	A	225	85	7D	16
R321	A	255	85	7B	16
R322	A	207	102	3E	16
R323	A	270	58	8D	18
R324	A	291	57	8B	18
R325	A	293	111	2B	18
R326	A	190	88	3B	16
R327	A	204	102	3C	16
R328	A	272	111	2D	18
R329	B	37	43	3B	20
R330	A	271	91	6D	18
R331	B	299	94	5B	18
R332	A	36	18	10B	20
R333	A	146	51	1A	10
R334	A	131	46	1C	10
R335	B	141	56	3A	10
R336	A	136	66	3C	10
R337	A	145	68	6D	10
R338	A	134	68	6A	10
R339	A	137	81	9D	10
R340	A	132	80	9A	10
R341	B	106	39	1D	11
R342	B	93	45	1A	11
R343	B	105	53	4D	11
R344	B	93	48	4A	11

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
R345	B	107	47	9C	11
R346	B	122	45	7A	11
R347	B	107	45	7D	11
R348	B	122	47	9A	11
R349	A	287	22	5B	19
R350	A	298	17	5D	19
R351	A	155	36	11E	2
R352	A	276	17	2D	19
R353	B	279	72	6C	18
R354	B	296	71	6A	18
R355	A	265	25	3C	19
R356	A	287	25	6C	19
R357	A	37	26	7D	20
R358	B	187	49	4B	7
R359	A	278	123	2D	18
R360	A	299	124	2B	18
R361	A	220	88	3D	16
R362	B	199	37	3B	7
R363	A	202	35	3A	7
R364	A	241	72	7C	16
R365	A	238	72	7E	16
R366	A	217	102	4D	16
R367	A	231	72	8D	16
R368	A	207	37	5C	2
R369	B	85	38	5B	2
R370	A	72	100	10B	3
R371	B	116	40	5D	2
R372	B	118	38	5D	2
R373	A	57	53	3B	6
R374	B	55	137	4C	4
R375	B	33	132	3B	4
R376	B	87	42	4E	2
R377	A	226	37	4F	2
R378	B	13	91	11D	4
R379	B	78	49	3D	6
R380	B	74	50	3D	6
R381	B	32	91	9D	4
R382	A	60	130	8D	4
R383	B	217	55	8B	8
R384	B	82	106	2E	3
R385	A	88	77	3E	3
R386	A	72	94	5E	3
R387	A	59	117	3E	4
R388	B	19	108	1E	4
R389	A	62	56	3A	6
R390	A	57	126	2E	4
R391	A	46	107	3E	4
R392	A	22	68	6E	5
R393	A	47	88	5E	5
R394	B	35	85	3E	5
R395	A	73	97	10B	3
R396	A	77	73	9C	3
R397	A	88	71	9D	3
R398	A	151	36	11D	2
R399	A	88	74	8D	3
R400	A	199	64	3F	7
R401	A	172	51	5C	7
R402	B	214	38	5D	2
R403	A	171	51	5C	7
R404	A	168	51	5C	7
R405	A	182	51	5A	7
R406	A	185	61	7A	7
R407	A	184	46	4B	7
R408	A	173	46	4D	7
R409	A	186	51	5A	7
R410	B	218	36	5E	2
R411	A	228	37	5A	2
R412	A	185	51	5A	7
R413	B	253	37	1A	8
R414	B	254	64	3A	8
R415	B	254	60	2A	8
R416	A	224	47	7E	8
R417	B	87	37	5A	2
R418	A	170	35	4B	2
R419	A	205	35	5C	2
R420	A	31	113	8A	4
R421	A	58	122	4F	4
R422	A	179	135	3D	15
R423	A	195	132	7D	15
R424	A	225	57	7D	8
R425	A	214	104	3C	16
R426	B	229	44	6C	8
R427	A	234	72	7C	16
R428	B	239	48	6B	8
R429	B	118	68	5D	12
R430	A	278	137	4E	18
R431	B	122	79	5D	12
R432	B	114	84	5D	12
R433	A	277	138	4E	18
R434	B	109	36	3B	2
R435	B	150	92	9D	7
R436	B	116	138	2F	14
R437	B	117	138	3F	14
R438	B	119	138	3F	14
R439	A	158	138	3F	14
R440	B	237	34	5D	8
R441	A	144	45	2C	10
R442	A	161	48	4B	10
R443	A	141	49	2E	10
R444	A	125	72	4E	10
R445	A	161	59	7E	10
R446	A	93	52	9E	10
R447	A	123	70	9C	10
R448	A	153	57	7B	10
R449	A	98	68	2C	11
R450	A	92	69	2E	11
R451	B	290	121	4B	18
R452	B	269	121	4D	18
R453	A	108	70	4E	11
R454	A	45	115	3E	4
R455	A	126	56	9C	11
R456	A	217	64	10D	8
R457	A	272	29	12D	18
R458	A	290	28	12B	18
R459	A	23	22	10D	19
R460	B	237	46	5B	8
R461	B	273	111	4D	18
R462	B	294	110	4B	18
R463	B	278	95	5D	18
R464	B	300	37	10B	18
R465	B	298	105	4B	18
R466	B	279	41	10D	18
R467	B	276	106	4D	18
R468	B	300	41	10B	18
R469	B	292	28	11B	18
R470	A	276	98	5E	18
R471	B	235	49	6C	8
R472	B	172	50	4C	7
R473	B	155	36	11E	2
R474	B	121	81	5D	12
R475	A	240	59	11C	8
R476	A	56	27	5A	20
R477	A	271	48	8D	18
R478	A	274	48	8D	18
R479	A	292	48	8B	18
R480	A	296	48	8B	18
R481	B	152	36	11D	2
R482	A	278	94	5C	18
R483	A	299	95	5A	18
R484	B	269	39	9D	18
R485	B	290	40	9B	18
R486	B	14	30	8C	19
R487	B	274	41	10D	18
R488	A	273	65	7D	18
R489	B	277	67	3E	18
R490	B	271	68	3F	18
R491	B	60	85	4E	5
R492	A	295	65	7B	18
R493	B	150	97	8D	7
R494	A	275	82	6D	18
R495	B	22	60	6A	5
R496	B	293	68	5F	18
R497	B	298	67	5E	18
R498	A	169	132	2A	14
R499	B	36	33	4E	20
R500	B	46	28	5F	20
R501	B	294	94	5B	18
R502	B	59	60	11A	5
R503	A	170	56	6C	7
R504	A	185	58	6B	7
R505	B	168	21	2C	2
R506	A	296	81	6C	18
R507	B	273	94	5D	18
R508	A	212	59	10C	8
R509	A	126	38	7E	11
R510	B	34	60	8A	5
R511	A	64	90	6D	3
R512	A	32	121	6D	4
R513	A	119	57	4C	11
R514	B	46	60	9A	5
R515	A	115	92	3D	13
R516	A	172	134	3F	15
R517	B	240	49	5B	8
R518	B	101	68	5A	12
R519	A	213	56	11D	8
R520	A	197	124	7F	15
R521	A	235	102	4D	17
R522	A	125	93	5E	13
R523	A	170	99	3E	13
R524	A	142	36	11D	2
R525	A	129	98	3E	13
R526	A	92	100	2E	13
R527	A	223	62	10E	8
R528	A	125	54	7C	11
R529	A	18	32	7B	19
R530	A	87	119	1E	13
R531	B	235	22	10B	12
R532	B	85	66	2C	5
R533	A	223	111	5E	17
R534	A	242	135	6E	17
R535	A	298	134	6E	18
R536	B	72	67	3C	5
R537	A	278	134	7E	18
R538	A	172	76	9A	7
R539	A	199	88	8E	9
R540	A	133	111	5F	14
R541	B	149	102	4C	13
R542	A	275	80	6E	18
R543	A	116	80	3D	13
R544	A	118	80	3D	13
R545	A	123	39	9E	11
R546	A	31	130	7B	4
R547	A	32	128	7B	4
R548	A	32	131	7B	4
R549	B	217	142	8A	17
R550	A	30	122	6C	4
R551	B	212	141	9C	17
R552	B	219	140	9C	17
R553	B	220	142	8C	17
R554	A	22	108	1E	5
R555	A	247	53	3E	8
R556	A	231	63	5E	8
R557	A	265	136	2B	18
R558	B	232	22	10B	12
R559	A	217	41	10D	8
R560	B	247	37	5C	8
R561	B	258	137	9E	17
R562	B	215	141	9E	17
R563	A	203	91	9D	9
R564	A	47	125	2E	4
R565	A	167	132	2A	14
R566	A	241	106	2D	17

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
R567	B	132	46	2C	10
R568	B	136	52	2A	10
R569	A	265	23	2B	19
R570	B	125	68	4C	10
R571	A	141	36	11C	2
R572	B	15	120	1B	4
R573	B	16	111	1B	4
R574	B	221	11	3F	2
R575	A	67	67	5E	5
R576	B	77	61	4D	5
R577	A	28	115	1E	6
R578	A	17	118	9B	4
R579	B	121	76	9A	10
R580	B	97	53	2A	11
R581	A	125	83	3C	13
R582	A	31	119	9B	4
R583	A	237	102	10C	17
R584	A	256	102	10E	17
R585	A	242	126	7C	17
R586	A	257	121	7E	17
R587	A	13	85	10C	5
R588	A	30	85	11C	5
R589	A	167	75	5E	9
R590	B	154	110	6F	14
R591	B	132	54	4F	10
R592	A	254	99	2B	17
R593				4B	2
R598	A	183	51	5A	7
R599	A	169	51	5C	7
R600	A	181	76	5B	7
R601	A	184	75	6B	7
R602	A	184	72	6B	7
R603	A	184	73	6B	7
R604	A	185	78	6B	7
R605	A	180	71	5B	7
R606	A	181	75	5B	7
R607	A	177	84	5B	7
R608	A	189	81	5D	7
R609	A	173	75	6D	7
R610	A	189	84	6D	7
R611	A	189	85	6D	7
R612	A	189	82	6D	7
R613	A	189	79	5D	7
R614	A	175	84	5D	7
R615	A	189	78	5D	7
R621	A	138	36	11C	2
R622	A	134	36	11C	2
R623	B	151	36	11B	2
R624	A	157	36	11B	2
R625	B	157	36	11B	2
R626	B	128	36	11B	2
R627	A	80	36	4C	3
R628	A	83	94	9D	3
R629	A	75	23	3B	3
R630	A	229	59	7D	8
R631	A	219	56	11D	8
R639	A	226	124	2B	17
R641	B	231	106	3A	17
R652	B	13	109	2A	4
R666	A	130	81	9A	10
R667	A	224	60	11D	8
R700				2E	2
U1	B	99	19	2A	2
U2	B	135	43	1F	10
U2	B	135	43	2D	10
U2	B	135	43	3A	10
U2	B	135	43	3B	10
U2	B	135	43	3C	10
U3	B	124	71	10A	10
U3	B	124	71	10B	10
U3	B	124	71	2F	10
U3	B	124	71	5C	10
U3	B	124	71	5E	10
U4	B	96	57	10E	10

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
U4	B	96	57	2F	10
U4	B	96	57	3A	11
U4	B	96	57	3C	11
U11	A	215	58	10D	8
U11	A	215	58	10D	8
U11	A	215	58	6F	8
V1	A	247	77	9A	12
V2	A	242	77	9B	12
V3	A	234	91	9D	12
V4	A	235	77	9D	12
V5	A	144	46	2B	10
V6	A	160	45	4B	10
V7	A	140	52	2D	10
V8	A	127	72	4D	10
V9	A	160	63	7E	10
V10	B	252	41	1A	8
V11	A	90	49	10E	10
V12	A	120	72	9B	10
V13	A	152	60	7B	10
V14	A	102	68	2B	11
V15	A	90	69	2E	11
V16	A	219	44	10C	8
V17	A	110	70	4E	11
V18	A	127	56	9B	11
V19	A	238	40	5F	8
V20	B	234	42	5C	8
V21	A	237	42	5D	8
V22	B	79	57	4D	5
V23	B	275	74	7C	18
V24	B	298	73	7A	18
V25	A	124	42	7E	11
V26	A	118	53	4B	11
V27	A	273	22	3C	19
V28	A	125	53	7B	11
V29	A	294	22	6C	19
V30	A	123	44	9E	11
V31	A	43	22	7E	20
V32	A	178	55	6C	7
V33	A	192	56	6A	7
V34	A	228	65	5E	8
V35	A	233	42	5C	8
V36				4B	2
V37	A	144	40	1B	10
V38	A	134	39	1D	10
V39	A	157	52	4B	10
V40	A	125	66	4D	10
V41	A	156	54	7E	10
V42	A	144	54	7B	10
V43	A	116	76	9B	10
V44	A	96	54	9E	10
V45	A	88	66	2E	11
V46	A	96	67	2B	11
V47	A	112	55	4B	11
V48	A	107	66	4E	11
V49	A	120	62	7B	11
V50	A	131	39	7E	11
V51	A	116	38	9D	11
V52	A	131	65	9B	11
V53	A	174	55	6D	7
V54	B	195	39	3A	7
V55	A	188	55	6B	7
V59	B	250	36	2A	8
V60	B	271	76	7D	18
V61	B	293	76	7B	18
V62	A	277	25	3C	19
V64	A	299	25	6C	19
V66	A	41	27	7E	20
V68	A	217	52	11D	8
V69	B	251	64	3B	8
V73	B	136	56	4A	10
V74	A	160	52	4B	10
V75	B	139	64	4C	10
V76	A	122	66	4D	10
V77	A	135	51	2D	10

el. Kennz. Part	Seite Side	X	Y	Planq. Sqr	Bl. Pg
V78	A	129	51	2C	10
V79	A	141	41	2B	10
V80	B	140	51	2A	10
V81	B	136	78	9A	10
V82	A	122	75	9B	10
V83	B	140	78	9D	10
V84	A	93	53	9E	10
V85	A	159	55	7E	10
V86	B	142	69	7D	10
V87	A	148	54	7B	10
V88	B	138	69	7A	10
V89	B	98	44	2A	11
V90	B	102	44	2D	11
V91	A	90	66	2E	11
V92	A	98	67	2B	11
V93	A	110	66	4E	11
V94	B	103	48	4D	11
V95	A	115	54	4B	11
V96	B	100	48	4A	11
V97	B	115	46	7A	11
V98	A	120	52	7B	11
V99	B	112	44	7D	11
V100	A	127	39	7E	11
V101	A	119	39	9E	11
V102	B	114	48	9C	11
V103	A	126	63	9B	11
V104	B	117	48	9A	11
X1	B	274	120	3D	18
X2	B	296	120	3B	18
X11A	B	29	128	2D	4
X11B	B	29	126	1D	4
X320	B	189	11	6A	2
X321	B	17	9	8D	19
X322	B	27	9	9D	19
X323	B	37	9	11A	20
X324	B	44	9	11B	20
X325	B	271	9	3D	19
X326	B	253	22	10D	12
X327	B	278	9	2B	19
X328	B	286	9	6D	19
X330	B	296	9	5B	19
Z1	B	202	27	3C	2
Z2	B	227	27	3A	2
Z3	A	19	35	7B	19
Z4	A	83	27	3C	3
Z5	A	85	27	3D	3
Z6	A	90	27	3D	3
Z7	A	80	27	3C	3
Z8	A	77	27	3A	3
Z9	A	75	27	3B	3
Z10	A	93	27	3E	3
Z11	B	222	27	3E	2
Z12	B	116	27	3C	2
Z13	B	105	27	3E	2
Z14	B	177	27	3B	2
Z15	A	123	27	7E	2
Z16	A	121	27	6D	2
Z17	A	128	27	7D	2
Z18	A	100	27	6D	2
Z19	A	126	27	6E	2
Z20	B	144	27	10A	2
Z21	A	146	27	10A	2
Z22	B	128	27	10B	2
Z23	B	159	27	10B	2
Z24	A	156	27	10B	2
Z25	B	151	27	10B	2
Z26	A	131	27	10C	2
Z27	A	136	27	10C	2
Z28	A	138	27	10C	2
Z29	A	141	27	10D	2
Z30	B	154	27	10D	2
Z31	A	151	27	10D	2
Z32	A	154	27	10E	2
Z33	B	156	27	10E	2

ROHDE & SCHWARZ

Benennung: EE MODULATIONSCODER
Designation: MODULATION-CODER

Sprache: Lang.: de

Blatt: Sh.: 7 +

Aei: C.I.: 03.00

Typ: Type: SMIQB20

Datum: Date: 99-11-02

Abteilung: Dpt: 1GPK

Name: Name: HM

Sachnr.: Part No.: 1085.5250.01 XY

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
Z34	B	123	27	6A	2
Z35	B	121	27	7A	2
Z36	A	159	27	6A	2
Z37	A	182	27	7B	2
Z38	B	138	27	6B	2
Z39	B	131	27	7B	2
Z40	B	126	27	6B	2
Z41	B	136	27	7C	2
Z42	B	141	27	6C	2
Z43	A	116	27	7C	2
Z44	A	105	27	6C	2

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
Z45	A	103	27	7D	2
Z46	A	144	27	3B	2
Z47	A	110	27	3B	2
Z48	B	110	27	3B	2
Z49	B	100	27	3A	2
Z50	A	24	35	9B	19
Z51	B	207	27	3D	2
Z53	A	235	34	10A	12
Z54	A	232	34	10B	12
Z55	A	230	34	10B	12
Z56	A	227	34	10C	12

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*

ROHDE & SCHWARZ

Benennung: *Designation:* EE MODULATIONSCODER MODULATION-CODER

Sprache: *Lang.:* de

Blatt: *Sh.:* 8 –

Aei: *C.I.:* 03.00

Typ: *Type:* SMIQB20

Datum: *Date:* 99-11-02

Abteilung: *Dpt:* 1GPK

Name: *Name:* HM

Sachnr.: *Part No.:* **1085.5250.01 XY**

ROHDE&SCHWARZ

SERVICE INSTRUCTIONS
for the
DATA GENERATOR and
MEMORY EXTENSION Options

1085.4560.02
1085.2845.02

Contents

7. Testing and Repair of the Module

7.1 Function Description

The Data Generator module (DGEN) is used as internal digital modulation source for the modulation-coder board (MCOD). The clock for generation and transmission of the digital data signals is supplied by the MCOD board. Two types of data signal are distinguished. The maximum eight so-called DATA signals are used by MCOD for the digital modulation. The six so-called CONTROL signals are assigned various control functions such as output-level blanking.

There are two fundamental operating modes:

In the DIGITAL MOD mode, the signals are entered by means of a list editor, stored in a battery-backed memory area on DGEN and read to the signal outputs at clock frequency. Besides, the real-time data read in via an individual RS232 interface (SERDATA socket on the rear panel) can be read to the DATA outputs.

In the DIGITAL STD mode, signals are generated at real-time operation which correspond to the different mobile-radio standards. The user enters mainly standard-specific parameters of the „physical layer". The conventional multiplex methods FDMA, TDMA and CDMA are supported.
Real-time data entered via the RS232 interface are integrated as wanted data in the DATA sequence.

An external trigger signal (TRIGIN) can start a data sequence. For synchronization to further instruments, a clock-synchronous pulse (TRIGOUT_3) is derived from this trigger signal.

The block diagram appended illustrates the board setup. The digital signal processor (DSP) TMS320C32 from Texas Instruments is the nucleus. A fast 2-Mbit SRAM is connected directly to the DSP bus which is loaded with the program subsequent to switch-on and which is not battery-backed. The battery-backed SRAMs for storage of the signal data in the DIGITAL MOD mode are connected to the DSP bus via two bus drivers (BUFFERs 1 and 2) and are accordingly slower.
The modules 8MBIT-SRAM1 and 8MBIT-SRAM2 are optional (MEMORY EXTENSION, abbreviated DMXT, SMIQ-B12) and are plugged on the pin-connector pairs X350 and X351.
A connection to the motherboard (UBEXIT) is provided which allows for the battery voltage to be supplied by a central battery in the instrument.

The signal data are read off via two DMA channels by the DSP via BUFFER1 and the FIFO-FPGA. This FPGA chip processes all clock, trigger and signal data. Its master clock is supplied by the DSP and is half the DSP clock of 60 MHz. The FIFO-FPGA requests the DMA data wordwise from the DSP by means of an interrupt signal, each. The FPGA configuration is part of the instrument firmware and is loaded into the FPGA subsequent to loading the DSP software by the host (download).

Communication with the controller board (host) is accomplished serially via the SERBUS-D-component.

The PARPORT component supplies various signals for the handshake or host and DGEN and for control of the FIFO-FPGA configuration.

The RS232 module is directly connected to the SERDATA input on the rear panel via a ribbon cable.

7.2 Service Conception

The module is a very complex hybrid circuit which is essentially set up in digital form. An exact error diagnosis on the component level or repair cannot be performed in the R&S departments or by the customer. A faulty module (DGEN or DMXT) has to be replaced. The defective module must be shipped to the manufacturer for detailed diagnosis and repair.

This document is organized, accordingly. The service engineer is intended to be able to unambiguously identify a faulty module.

The faulty module should be sent to the manufacturer together with an error description to support repair.

7.3 Test Instruments and Utilities

- Storage oscilloscope or logic analyzer (100-MHz cut-off frequency)
- Square-wave or pulse generator (1 kHz)

Both test instruments are required in Section 7.5.5.

7.4 Troubleshooting

A memory-test program is intended to be installed which can be started by the user and which is to indicate errors in the battery-backed memory (4-MBIT SRAM, 2 x 8-MBIT SRAM) without deleting stored data.

7.5 Testing and Adjustment

7.5.1 Boot-Check after Switch-on

After switching on the instrument, the DSP program and the FIFO-FPGA configuration are loaded. If booting was successful, the message

„Download DSP OK"

is displayed.

If an error occurred with booting the host, the message

„Firmware download error DGEN"

is displayed.

7.5.2 Requesting the Revision

The revision (REV) and the variant (VAR) of the individual modules are indicated under **UTILITIES:DIAG:CONFIG.**

If both of the DMXT modules (8-MBIT SRAM, SMIQ-B12 option) are fitted to the DGEN, the display reads as follows:

DGEN SMIQB11 VAR... REV...
DMXT SMIQB12 VAR... REV...
DMXT SMIQB12 VAR... REV...

7.5.3 Jumpers

X21A must be connected to X21B.
X58A must be connected to X58B.
X63A must be connected to X63B.
X59A must be connected to X59B.
P86 must be connected to P87.
P84 must be connected to P85.
P1 must be connected to P2.

7.5.4 Diagnosis

- Settings: **UTILITIES:DIAG:TPOINT :STATE ON**
  :TEST POINT 2300

➢ The indicated battery voltage must be > 2V to ensure the the DATA and CONTROL data are retained with switch-off.

7.5.5 Testing the Output Signals and the External Trigger Signal

- Settings: **Press PRESET key**
  DIG.MOD :MODULATION TYPE:256QAM 8b/sym
  :SYMBOL RATE:7500000.0sym/s
  :TRIGGER:TRIGGER SOURCE:EXT
  :MODE:RETRIG
  :SOURCE :SOURCE:DATA_LIST
  :SELECT DATA LIST:CREATE NEW LIST
  :EDIT DATA LIST:EDIT/VIEW

SELECT DATA LIST... CURRENT: DLIST0
EDIT DATA LIST... FREE 03330496 LEN 00000152

-BIT--------	-DATA---------			
00000001	10101111	01010101	01010101	01010101
00000033	00110011	00110011	00110011	00110011
00000065	00010001	00010001	00010001	00010001
00000097	01110111	01110111	01110111	01110111
00000129	00000000	00000000	00001110	

- Connect storage oscilloscope or logic analyzer at the PARDATA connector on the rear panel to the outputs DATA_PAR_D0...D7, BURST_GATE, LEV_ATT, CW, HOP, TRIGOUT_2, TRIGOUT_1, TRIGOUT_3, SYMBCLK_PAR and to the input TRIGIN.
  Trigger to the rising edge of the TRIOUT_3 signal.

- Apply a squarewave or pulse signal with a frequency of 1 kHz to the TRIGIN input using the square-wave generator. (The rising edge is active.)

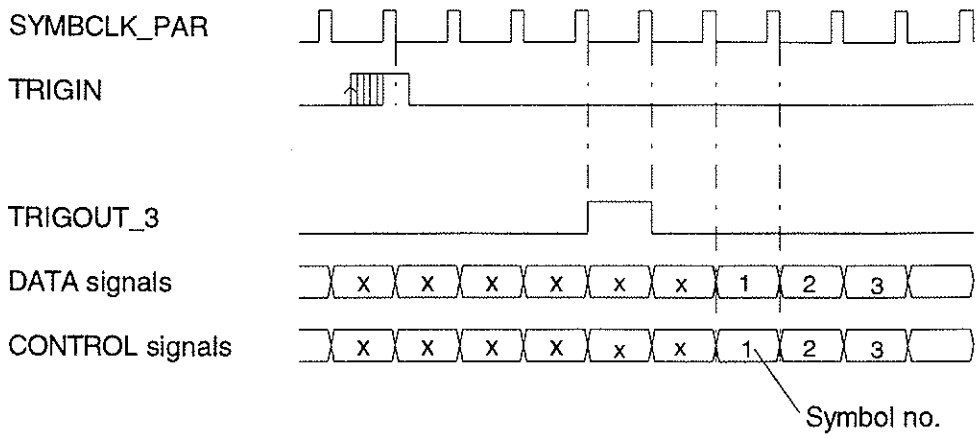
➢ The output signals must be stable with the rising edge (see quality timing diagram below).

➢ The TRIGIN signal is read in with the falling edge of SYMBCLK_PAR (7.5MHz). Three symbol-clock periods later the TRIGOUT_3 signal must assume HIGH level after the falling edge of SYMBCLK_PAR and remain stable to the next rising edge (see quality timing diagram below).

➢ Two symbol-clock periods after the TRIGOUT_3 signal the eight DATA signals DATA_PAR_D0...D7 appear. A DATA sequence comprises 19 symbol-clock periods and is repeated cyclically at this length. The table below indicates the 19 states, each of the DATA signals must assume at the rising edge of SYMBCLK_PAR.

➢ The delay between the falling edge of SYMBCLK_PAR and the DATA signal edge must be < 50 ns.

➢ The delay between the falling edge of SYMBCLK_PAR and the edge of the TRIGOUT_3 signal must be < 100ns.



Symbol	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
D_7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D_6	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
D_5	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0
D_4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
D_3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
D_2	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1
D_1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1
D_0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0

- Settings: **DIG.MOD :SYMBOL RATE:2500000.0sym/s**
  :SOURCE :CONTROL STATE ON
  :SEL.CONTROL LIST:CREATE NEW LIST
  :EDIT CONTROL LIST:EDIT/VIEW

```
SELECT CONTROL LIST...                                  CURRENT: CLIST0
EDIT CONTROL LIST...     FREE 00104080    LEN 00000019
-SYMBOL-----------BGATE-LATT--CW----HOP---TRIG2-TRIG1--
00000001             1     0     0     0     0     0
00000002             1     1     0     0     0     0
00000003             0     1     1     0     0     0
00000004             0     0     1     1     0     0
00000005             0     0     0     1     1     0
00000006             0     0     0     0     1     1
00000007             0     0     0     0     0     1
00000008             0     0     0     0     0     0
00000010             1     1     1     1     1     1
00000012             0     0     0     0     0     0
00000018             1     1     1     1     1     1
00000019             0     0     0     0     0     0
```

➢ Two symbol-clock periods after the TRIGOUT_3 signal the six CONTROL signals BURST_GATE, LEV_ATT ... appera. A CONTROL sequence consists of 19 Symbol-clock periods and is repeated cyclically at this length. The table below indicates the 19 states, each of the DATA signals must assume at the rising edge of SYMBCLK_PAR.

➢ The delay between the falling edge of SYMBCLK_PAR and the edge of the CONTROL signal must be < 100ns.

Symbol	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BURST_GATE	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0
LEV_ATT	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0
CW	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0
HOP	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0
TRIGOUT_2	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0
TRIGOUT_1	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0

7.5.6 Testing the RS-232 Interface

Is described in the following.

7.6 Removal and Assembly

After opening the instrument and unlocking the module, it can be removed from its slot. The screening covers of the module are conventionally screwed.

The two boards „Option B12", Memory Extension (DMXT), are not screwed to DGEN but only plugged on the pin-connector pairs X350 and X351.

If one DMXT module is fitted, only, the pin-connector pair X350 must be used in order to obtain a
continuous address range.
If the DMXT module is plugged onto X351, an error message is output after switching on the instrument.

To assemble the module, proceed in the reverse order.

7.7 External Interfaces

Motherboard:

Pin	Name	Input/Output	Origin/ Destination	Specified range	Signal description
X340.A1					
X340.A2	HOP	Output	A3, FRO, X203.25 X50.42	HCT level	CONTROL signal for frequency hopping
X340.A3					
X340.A4					
X340.A5					
X340.A6					
X340.A7					
X340.A8					
X340.A9					
X340.A10					
X340.A11	GND		A200, MBIQ		Ground
X340.A12	SERBUS-CLK	Input	A3, FRO, X31.40	HCT level	Serbus Clock
X340.A13	GND		A200, MBIQ		Ground
X340.A14	SERBUS-OUT	Output	A3, FRO, X31.39	HCT level	Serbus data
X340.A15	SERBUS-IN	Input	A3, FRO, X31.39	HCT level	Serbus data
X340.A16	SERBUS-SYNC	Input	A3, FRO, X31.37	HCT level	Serbus sync
X340.A17	SERBUS-INT	Output	A3, FRO, X31.38	HCT level	Serbus interrupt
X340.A18	Reset-P	Input	A3, FRO, X31.28	HCT level	Serbus reset
X340.A19	DIAG-5V	Output	A3, FRO, X31.44	-5 V to +5 V	Diagnosis
X340.A20	READY_DGEN	Output	A3, FRO, X50.32	HCT level	Serbus handshake 1
X340.A21	GND		A200, MBIQ		Ground
X340.A22					
X340.A23	GND		A200, MBIQ		Ground
X340.A24					
X340.A25	GND		A200, MBIQ		Ground
X340.A26					
X340.A27	GND		A200, MBIQ		Ground
X340.A28	VD5-P	Input	A2, POWs1	5.15 to 5.25 V max. 1400 mA	5-V power supply
X340.A29	GND		A200, MBIQ		Ground
X340.A30					
X340.A31	GND		A200, MBIQ		Ground
X340.A32	VD5-N	Input	A2, POWs1	-5.05 to -5.35 V max 10 mA	-5-V power supply

Motherboard:

Pin	Name	Input/ Output	Origin/Destination	Specified range	Signal description
X340.B1	GND		A200, MBIQ		Ground
X340.B2	GND		A200, MBIQ		Ground
X340.B3					
X340.B4	DONE	Output	A3, FRO, X50.47	HCT level, open collektor	Serbus handshake 2
X340.B5					
X340.B6	UBEXT	Input	A3, FRO, X50.46 RAM-BATT, X27.4/5	2.2 .to3.6 V	Central battery voltage.
X340.B7	GND		A200, MBIQ		Ground
X340.B8	GND		A200, MBIQ		Ground
X340.B9	TRIGOUT3	Output	PARDATA, X203.24	HCT level	Signal for sync. purposes
X340.B10	TRIGOUT1	Output	PARDATA, X203.11	HCT level	CONTROL signal for sync.purposes
X340.B11	TRIGOUT2	Output	PARDATA, X203.23	HCT level	CONTROL signal for sync.purposes
X340.B12	GND		A200, MBIQ		Ground
X340.B13	GND		A200, MBIQ		Ground
X340.B14	GND		A200, MBIQ		Ground
X340.B15	TRIGIN_DGEN	Input	A320, MCOD, X320.B15	HCT level	Ext. Trigger signal
X340.B16	CW_DGEN	Output	A320, MCOD, X320.B16	HCT level	CONTROL signal for real-time switching off the modulation
X340.B17	LEV_ATT_DGEN	Output	A320, MCOD, X320.B17	HCT level	CONTROL signal for level blanking
X340.B18	BURST_GATE_DGEN	Output	A320, MCOD, X320.B18	HCT level	CONTROL signal for level blanking
X340.B19	GND		A200, MBIQ		Ground
X340.B20	DATA_DGEN_D0	Output	A320, MCOD, X320.B20	HCT level	DATA signal 0
X340.B21	DATA_DGEN_D1	Output	A320, MCOD, X320.B21	HCT level	DATA signal 1
X340.B22	DATA_DGEN_D2	Output	A320, MCOD, X320.B22	HCT level	DATA signal 2
X340.B23	DATA_DGEN_D3	Output	A320, MCOD, X320.B23	HCT level	DATA signal 3
X340.B24	DATA_DGEN_D4	Output	A320, MCOD, X320.B24	HCT level	DATA signal 4
X340.B25	DATA_DGEN_D5	Output	A320, MCOD, X320.B25	HCT level	DATA signal 5
X340.B26	DATA_DGEN_D6	Output	A320, MCOD, X320.B26	HCT level	DATA signal 6
X340.B27	DATA_DGEN_D7	Output	A320, MCOD, X320.B27	HCT level	DATA signal 7
X340.B28	VD5-P	Input	A2, POWs1	5.15 to 5.25V	5-V power supply
X340.B29	VD5-P	Input	A2, POWs1	5.15 to 5.25V	5-V power supply
X340.B30	SYMBSTR_DGEN	Input	A320, MCOD, X320.B30	HCT level	Symbol-strobe signal
X340.B31	GND		A200, MBIQ		Ground
X340.B32	DATACLK_DGEN	Input	A320, MCOD, X320.B32	HCT level	Data-clock signal

Memory extension(DMXT):

Pin	Name	Input/Output	Origin/ Destination	Specified range	Signal description
X350.A1	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.A2	+5VBATT	Input	A340, DGEN	5.15 to 5.25 V	5-V battery-backed
X350.A3	+5VBATT	Input	A340, DGEN	5.15 to 5.25 V	5-V battery-backed
X350.A4	OE	Input	A340, DGEN	HCT level	Output-Enable signal
X350.A5	CD	Input	A340, DGEN	HCT level	Power-Down signal
X350.A6	8MEN	Input	A340, DGEN	HCT level	Select signal
X350.A7	GND		A340, DGEN		
X350.A8	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.A9	HV_D0	Output	A340, DGEN	HCT level	Version (REV)
X350.A10	HV_D1	Output	A340, DGEN	HCT level	Version (REV)
X350.A11	HV_D2	Output	A340, DGEN	HCT level	Version (REV)
X350.A12	HV_D3	Output	A340, DGEN	HCT level	Version (REV)
X350.A13	R/WB	Input	A340, DGEN	HCT level	Read-Write signal
X350.A14	GND		A340, DGEN		
X350.A15	AB18	Input	A340, DGEN	HCT level	Address bus
X350.A16	AB17	Input	A340, DGEN	HCT level	Address bus
X350.A17	AB16	Input	A340, DGEN	HCT level	Address bus
X350.A18	GND		A340, DGEN		
X350.A19	AB15	Input	A340, DGEN	HCT level	Address bus
X350.A20	AB14	Input	A340, DGEN	HCT level	Address bus
X350.A21	GND		A340, DGEN		
X350.A22	AB13	Input	A340, DGEN	HCT level	Address bus
X350.A23	AB12	Input	A340, DGEN	HCT level	Address bus
X350.A24	GND		A340, DGEN		
X350.A25	AB11	Input	A340, DGEN	HCT level	Address bus
X350.A26	AB10	Input	A340, DGEN	HCT level	Address bus
X350.A27	GND		A340, DGEN		
X350.A28	AB9	Input	A340, DGEN	HCT level	Address bus
X350.A29	AB8	Input	A340, DGEN	HCT level	Address bus
X350.A30	GND		A340, DGEN		
X350.A31	AB7	Input	A340, DGEN	HCT level	Address bus
X350.A32	AB6	Input	A340, DGEN	HCT level	Address bus
X350.A33	+5V	Input	A340, DGEN	5.15 to 5.25 V	5 V power supply
X350.A34	AB5	Input	A340, DGEN	HCT level	Address bus
X350.A35	AB4	Input	A340, DGEN	HCT level	Address bus
X350.A36	+5V	Input	A340, DGEN	5.15 to 5.25 V	5 V power supply
X350.A37	AB3	Input	A340, DGEN	HCT level	Address bus
X350.A38	AB2	Input	A340, DGEN	HCT level	Address bus
X350.A39	GND		A340, DGEN		
X350.A40	AB1	Input	A340, DGEN	HCT level	Address bus
X350.A41	AB0	Input	A340, DGEN	HCT level	Address bus
X350.A42	GND		A340, DGEN		
X350.A43	STRB1B_B3	Input	A340, DGEN	HCT level	Strobe signal
X350.A44	STRB1B_B2	Input	A340, DGEN	HCT level	Strobe signal
X350.A45	STRB1B_B1	Input	A340, DGEN	HCT level	Strobe signal
X350.A46	STRB1B_B0	Input	A340, DGEN	HCT level	Strobe signal
X350.A47	GND		A340, DGEN		
X350.A48	GND		A340, DGEN		
X350.A49	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.A50	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply

Memory extension(DMXT):

Pin	Name	Input/Output	Origin/ Destination	Specified range	Signal description
X350.B1	GND		A340, DGEN		
X350.B2	+5VBATT	Input	A340, DGEN	5.15 to 5.25 V	5-V battery-backed
X350.B3	+5VBATT	Input	A340, DGEN	5.15 to 5.25 V	5-V battery-backed
X350.B4	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B5	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B6	IO31	Input/Output	A340, DGEN	HCT level	Data bus
X350.B7	IO30	Input/Output	A340, DGEN	HCT level	Data bus
X350.B8	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B9	IO29	Input/Output	A340, DGEN	HCT level	Data bus
X350.B10	IO28	Input/Output	A340, DGEN	HCT level	Data bus
X350.B11	IO27	Input/Output	A340, DGEN	HCT level	Data bus
X350.B12	GND		A340, DGEN		
X350.B13	IO26	Input/Output	A340, DGEN	HCT level	Data bus
X350.B14	IO25	Input/Output	A340, DGEN	HCT level	Data bus
X350.B15	IO24	Input/Output	A340, DGEN	HCT level	Data bus
X350.B16	GND		A340, DGEN		
X350.B17	IO23	Input/Output	A340, DGEN	HCT level	Data bus
X350.B18	IO22	Input/Output	A340, DGEN	HCT level	Data bus
X350.B19	IO21	Input/Output	A340, DGEN	HCT level	Data bus
X350.B20	GND		A340, DGEN		
X350.B21	IO20	Input/Output	A340, DGEN	HCT level	Data bus
X350.B22	IO19	Input/Output	A340, DGEN	HCT level	Data bus
X350.B23	IO18	Input/Output	A340, DGEN	HCT level	Data bus
X350.B24	GND		A340, DGEN		
X350.B25	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B26	IO17	Input/Output	A340, DGEN	HCT level	Data bus
X350.B27	IO16	Input/Output	A340, DGEN	HCT level	Data bus
X350.B28	IO15	Input/Output	A340, DGEN	HCT level	Data bus
X350.B29	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B30	IO14	Input/Output	A340, DGEN	HCT level	Data bus
X350.B31	IO13	Input/Output	A340, DGEN	HCT level	Data bus
X350.B32	IO12	Input/Output	A340, DGEN	HCT level	Data bus
X350.B33	GND		A340, DGEN		
X350.B34	IO11	Input/Output	A340, DGEN	HCT level	Data bus
X350.B35	IO10	Input/Output	A340, DGEN	HCT level	Data bus
X350.B36	IO9	Input/Output	A340, DGEN	HCT level	Data bus
X350.B37	GND		A340, DGEN		
X350.B38	IO8	Input/Output	A340, DGEN	HCT level	Data bus
X350.B39	IO7	Input/Output	A340, DGEN	HCT level	Data bus
X350.B40	IO6	Input/Output	A340, DGEN	HCT level	Data bus
X350.B41	GND		A340, DGEN		
X350.B42	IO5	Input/Output	A340, DGEN	HCT level	Data bus
X350.B43	IO4	Input/Output	A340, DGEN	HCT level	Data bus
X350.B44	IO3	Input/Output	A340, DGEN	HCT level	Data bus
X350.B45	GND		A340, DGEN		
X350.B46	IO2	Input/Output	A340, DGEN	HCT level	Data bus
X350.B47	IO1	Input/Output	A340, DGEN	HCT level	Data bus
X350.B48	IO0	Input/Output	A340, DGEN	HCT level	Data bus
X350.B49	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply
X350.B50	+5V	Input	A340, DGEN	5.15 to 5.25 V	5-V power supply

The pin assignment of X351 corresponds to that of X350.

SUB-D connector PARDATA on the rear panel:

Pin	Name	Input/ Output	Origin/Destination	Specified range	Signal description
X203.1	GND		A200, MBIQ		
X203.2	GND		A200, MBIQ		
X203.3	DATA_PAR_D6	Output	A320, MCOD, X320.B11	HCT level	DATA signal 6
X203.4	DATA_PAR_D4	Output	A320, MCOD, X320.B9	HCT level	DATA signal 4
X203.5	DATA_PAR_D2	Output	A320, MCOD, X320.B7	HCT level	DATA signal 2
X203.6	DATA_PAR_D0	Output	A320, MCOD, X320.B5	HCT level	DATA signal 0
X203.7	SYMBCLK_PAR	Input/ Output	A320, MCOD, X320.B3	HCT level	Symbol clock
X203.8	GND		A200, MBIQ		
X203.9	LEV_ATT	Output	A320, MCOD, X320.A8	HCT level	CONTROL signal for level blanking
X203.10	GND		A200, MBIQ		
X203.11	TRIGOUT_1	Output	A340, DGEN, X34.B10	HCT level	CONTROL signal for sync. Purposes
X203.12	GND		A200, MBIQ		
X203.13	GND		A200, MBIQ		
X203.14	TRIGIN	Input	A320, MCOD, X320.B14	HCT level	Ext. Trigger signal
X203.15	DATA_PAR_D7	Output	A320, MCOD, X320.B12	HCT level	DATA signal 7
X203.16	DATA_PAR_D5	Output	A320, MCOD, X320.B10	HCT level	DATA signal 5
X203.17	DATA_PAR_D3	Output	A320, MCOD, X320.B8	HCT level	DATA signal 3
X203.18	DATA_PAR_D1	Output	A320, MCOD, X320.B6	HCT level	DATA signal 1
X203.19	GND		A200, MBIQ		
X203.20	BITCLK_PAR	Input/ Output	A320, MCOD, X320.B1	HCT level	Bit clock
X203.21	CW	Output	A320, MCOD, X320.A9	HCT level	CONTROL signal for real-time switch-off of the modulation
X203.22	BURST_GATE	Output	A320, MCOD, X320.A7	HCT level	CONTROL signal for level blanking
X203.23	TRIGOUT_2	Output	A340, DGEN, X34.B11	HCT level	CONTROL signal for sync. purposes
X203.24	TRIGOUT_3	Output	A340, DGEN, X34.B9	HCT level	Signal for sync. purposes
X203.25	HOP	Output	A340, DGEN, X34.A2	HCT level	CONTROL signal for frequency hopping

ROHDE&SCHWARZ

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

Comp. No.	Designation	Stock No.	Manufacturer	Designation	Contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS				
1	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747	
2	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 0078.2747.00	-	R&S-ZCHNG.078.2747	
C1	CE 100UF+-20%16V RUND SMD SMD-ELECTOLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100F(G)S	
C2	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C3	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C4 ..14	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C15 ..17	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6C0G 330F50ZPT	
C18 ..35	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C36	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C37	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C38	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C39	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6C0G 330F50ZPT	
C40 ..42	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C43 ..46	CE 10UF+-20%35V RUND SMD SMD ELECTROLYTIC CAPACIT.	CE 0009.5605.00	PANASONIC	EEV HB 1V 100X	
C47	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C48 ..62	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C63	CE 100UF+-20%16V RUND SMD SMD-ELECTOLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100F(G)S	
C64	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C65	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C66	CE 100UF+-20%16V RUND SMD SMD-ELECTOLYTIC CAPACIT.	CE 0009.6553.00	SANYO	16CV100F(G)S	
C67	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C68	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C69	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C70	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39C0G***F50ZPT	
C71	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C72	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C73	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C74 ..78	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C79	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	AVX	1206 5A 102 FAT00J	
C80 ..84	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6C0G 330F50ZPT	
D1	BL 74ACT86SC 4X 2IN-EXOR QUAD 2-INPUT EXOR GATE	BL 2005.4307.00	HARRIS	(CD74)ACT86(M)	
D2	BC KM6164002BJ-15 SRAM	1085.1361.00	SAMSUNG	KM6164002(A/BJ)-15	
D3	BC KM6164002BJ-15 SRAM	1085.1361.00	SAMSUNG	KM6164002(A/BJ)-15	
D4	BL PC74HCT04T 6XINVERT HEXINVERTER	BL 0007.5372.00	PHILIPS_SE	(PC)74HCT04(D/T)	
D5 ..11	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D12	BC XC4013E-3C 13K GAT LCA 13K LOGIC CELL ARRAY	1085.2016.00	XILINX	XC4013E-3PQ208C	
D13	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	contained in
D14	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D15	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D16	BC AM29F010 10% FL.EPROM FLASH-EPROM	BC 0009.0361.00	AMD	AM29F010(A)-120JC	
D17 ..19	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D20	BL PC74HC02T 4X2IN.NORG QUAD 2INPUT NOR GATE	BL 0007.3470.00	PHILIPS_SE	(PC)74HC02(D/T)	
D21	BC TMS320C32PQL FLPTR DSP DIGITAL SIGNAL PROCESSOR	0010.8262.00	TEXAS	TMS320C32PCM-60	
D22	BO MAX691AESE SUPERVISOR IC UP VOLTAGE SUPERVISOR	0009.8333.00	MAXIM	MAX691AESE	
D23	BL PC74HCT165T 8B SHREG SHIFT REGISTER	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
D24 ..27	BL PC74HCT245T 8XTRANSC OCTAL BUS TRANSCEIVER	BL 0007.5414.00	PHILIPS_SE	(PC)74HCT245(D/T)	
D28	BC TC551001FL 128KX8 SRAM STATIC RAM 128KX8 NUR VAR/ONLY MOD: 02	BC 1046.3938.00	SAMSUNG	KM681000(B/C)LG-7	
..28 ..31					
D31	BC HM628512L 512KX8 SRAM IC STATIC RAM 512KX8 NUR VAR/ONLY MOD: 04	BC 2068.9193.00	SAMSUNG	KM684000(B/C)LG-7	
D32	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D33	BJ LT1181ACS RS232 2TX2RX RS-232 TRANSCEIVER	1008.2915.00	LINEAR_TEC	LT1181ACSW	
D34	BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER	BL 0007.4018.00	PHILIPS_SE	(PC)74HC14(D/T)	
D35	BL PC74HCT4094T 8ST.SHREG 8-STAGE SHIFT&STORE REG.	0007.6885.00	PHILIPS	(PC)74HCT4094(D)	
D36	BL 74ACT02SC 4X2NOR O.C IC QUAD 2INP NOR GATE	BL 0008.0674.00	RCA	CD74ACT02M	
D37	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D38	BL PC74HCT173T 4XD-FF 3S QUAD D-TYPE FLIPFLOP	BL 0007.6933.00	PHILIPS	(PC)74HCT173(T)	
D39	BL PC74HCT173T 4XD-FF 3S QUAD D-TYPE FLIPFLOP	BL 0007.6933.00	PHILIPS	(PC)74HCT173(T)	
D40	BL PC74HC138T LINE DECOD LINE DECODER	BL 0007.3534.00	PHILIPS_SE	(PC)74HC138D(T)	
D41	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	BG 0008.6143.00	THESYS	TH3032.1C	
D42	BL PC74HCT541T 8XBUSDRIV OCTAL BUFFER/LINE DRIVER	BL 1006.4104.00	PHILIPS_SE	(PC)74HCT541(D/T)	
D43	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D44	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D45	BL PC74HCT273T 8XD-FF OCTAL D-TYPE FLIPFLOP	BL 0007.6610.00	PHILIPS_SE	(PC)74HCT273(D/T)	
D46 ..48	BL PC74HCT165T 8B SHREG SHIFT REGISTER	BL 0007.5408.00	PHILIPS_SE	(PC)74HCT165(D/T)	
D49	BC N82510 ASYNC SER CONTR ASYNC SERIAL CONTROLLER	0008.1764.10	INTEL	N82510	
D50	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D51	BL 74ACT32SC 4X2-IN OR IC QUAD 2-INPUT OR GATE	BL 1012.9385.00	HARRIS	CD74ACT32M	
D52	BL PC74HC04T 6XINVERTER HEXINVERTER NUR VAR/ONLY MOD: 04	BL 0007.4001.00	PHILIPS_SE	(PC)74HC04(D/T)	
G1	EO 18,432MHZ-QU.OSZ 5V CLOCK OSCILLATOR	0008.1770.00	TELEQUARZ	R&S-SACHNUMMER	
G2	EB 3,4V LITHIUM-BATTERIE LI BATTERY	0565.1687.00	ACCU_SONNE	SL-750/P/009 1110750	
G3	EO 60,000MHZ QUARZOSZ QUARTZ CRYSTAL UNIT	1078.3427.00	SEIKO	SG 615 PH-C	
L1	LD 100NH 10% 0,08OHM 1,4A CHOKE	LD 0067.2740.00	DALE	IM2	
L2	LD 100NH 10% 0,08OHM 1,4A CHOKE	LD 0067.2740.00	DALE	IM2	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
L3	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L4	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L5 ..17	LD 100NH 10% 0,44A 1210 RF CHOKE	LD 0007.9249.00	SIEMENS	B82422-A3101-J(K)100	
L18	LD 470NH10%OR5 0,1A1206 SMD-MULTILAYER INDUCTOR	0007.9226.00	TOKO	MLF 3216 D R47 KL	
L19	LD 470NH10%OR5 0,1A1206 SMD-MULTILAYER INDUCTOR	0007.9226.00	TOKO	MLF 3216 D R47 KL	
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	
P4	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	
P8	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P9	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	
P11	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	
P13	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P14	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P15	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P16	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P17	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P18	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P19	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P20	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P21	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P22	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P23	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P24	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P25	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P26	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P27	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P28	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P29	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P30	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P31	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P32	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P33	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	contained in
P34	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P35	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P36	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P37	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P38	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P39	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P40	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P41	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P42	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P43	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P44	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P45	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P46	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P47	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P48	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P49	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P50	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P51	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P52	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P53	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P54	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P55	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P56	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P57	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P60	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P61	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P62	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P64	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P65	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P66	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P67	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P68	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P69	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P70	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P71	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P72	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P73	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P74	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P75	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
P76	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P77	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P78	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P79	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P80	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P81	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P82	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P83	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P84 ..87	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P88	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P89	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P90	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P91	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P92	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P93	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P94	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P97	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P98	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P99	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P100	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P101	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P102	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P103	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P104	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P105	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P119	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P120	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P121	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P122	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P124	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P125	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P127	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P128	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
P129	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R2	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R3	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R4 ..9	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	

Kennz. Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	contained in
R10	RG 100K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5363.00	DRALORIC	CR 0603	
R11	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R12	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R13	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R14	RG 10K +-1% TK100 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R15	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R16	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R17 ..19	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R20 ..22	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R23	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R24 ..33	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R34	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R35	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R36	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R37	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R38	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R39	RG 10K +-1% TK100 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R41 ..46	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R47 ..57	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R58	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R59 ..74	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R76 ..87	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R88 ..94	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	DRALORIC	CR 0603	
R95	RG 47K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7072.00	PHILIPS_CO	RC 22 H	
R96 ..112	RG 47R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R113 ..118	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R119	RG 2K2 +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
R120	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R121 ..124	RG 22K +-1% TK100 SMD RESISTOR EIA0603	0603	0009.7050.00	DRALORIC	CR 0603	
R125	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R126 ..131	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R132 ..135	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R136	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R137	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R138	RG 330R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6960.00	DRALORIC	CR 0603	
R139 ..188	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R189	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R190	RG 82,5 OHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.8861.00	PHILIPS_CO	RCO2	

Comp. No.	Designation		Stock No.	Manufacturer	Designation	contained in
R191	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..194	SMD RESISTOR EIA0603					
R195	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R196	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..198	SMD RESISTOR EIA0603					
R199	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R200	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..209	SMD RESISTOR EIA0603					
R210	RG 47R +-1% TK100	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
..213	SMD RESISTOR EIA0603					
R214	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..216	SMD RESISTOR EIA0603					
R217	RG 47K +-1% TK100	0603	0009.7072.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R218	RG 47R +-1% TK100	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R219	RG 47R +-1% TK100	0603	0009.6924.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R220	RG 4K7 +-1% TK100	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R221	RG 4K7 +-1% TK100	0603	0009.7020.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R222	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R223	RG 100K +-1% TK100	0603	RG 0009.5363.00	DRALORIC	CR 0603	
..238	SMD RESISTOR EIA0603					
R239	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R240	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R241	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R242	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R243	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R244	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R245	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R246	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R247	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R248	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R249	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R250	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R251	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					
R252	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R253	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 04					
R254	RG 0-OHM WIDERSTAND	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
	SMD RESISTOR EIA0603					
	NUR VAR/ONLY MOD: 02					

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	contained in
R255	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R256	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R257	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 02	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R258	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R259	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 04	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R260	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
V2	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V3	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V4 ..6	AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE	AD 0911.0092.00	VALVO	BAV99	
V7	AE HSMS2810 SCHOTTKY SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS-2810	
V9	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V10	AK BCP69-25 P 20V TRANS MEDIUM POWER TRANSISTOR	0008.2002.00	PHILIPS	BCP 69-16 (25)	
X5	FP STIFTLEISTE 6P.R2,54 PIN CONNECTOR	FP 0009.6160.00			
X6	FP STIFTLEISTE 6P.R2,54 PIN CONNECTOR	FP 0009.6160.00			
X340	FP STECKERLEISTE 64P. CONNECTOR 64P.	FP 0008.5747.00	DEUT_ELCO	16 8457 064 002 025	
X341	FP STECKERLEISTE 10P.WIN CONNECTOR	FP 0738.5335.00	SIEMENS	V23535-A2210-A102	
X21A	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X21B	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X21C	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X21D	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X350A	FP STECKERLEISTE 50P.R=2 CONNECTOR 50P	FP 1051.4516.00	BERG_ELEKT	87131-550	
X350B	FP STECKERLEISTE 50P.R=2 CONNECTOR 50P	FP 1051.4516.00	BERG_ELEKT	87131-550	
X351A	FP STECKERLEISTE 50P.R=2 CONNECTOR 50P	FP 1051.4516.00	BERG_ELEKT	87131-550	
X351B	FP STECKERLEISTE 50P.R=2 CONNECTOR 50P	FP 1051.4516.00	BERG_ELEKT	87131-550	
X58A	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X58B	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X59A	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X59B	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X63A	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
X63B	VL EINPRESSSTIFT 5,6 PIN	VL 0010.7250.00	AMP	1-928776-5	
Z1 ..5	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z6	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z7 ..10	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z11	LD T-FILTER 33PF SMD SMD-T-FILTER 33PF	1062.6744.00	MURATA	NFM61R00T330	
Z12 ..33	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
Z34	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R2OT332T1	
Z35	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61ROOT101T1	

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

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
1	B	187	105	7F	2
2	B	220	105	7F	2
C1	B	228	22	2C	2
C2	B	297	39	6D	2
C3	A	79	24	8D	2
C4	B	174	110	8E	2
C5	A	250	59	5C	7
C6	B	213	41	7B	7
C7	A	20	67	5A	7
C8	A	185	77	5B	7
C9	A	165	96	5B	7
C10	A	242	59	5C	7
C11	A	185	92	6C	7
C12	A	165	81	5C	7
C13	A	275	64	2E	7
C14	A	238	65	3E	7
C15	A	50	71	1A	7
C16	A	84	64	1A	7
C17	A	70	51	1B	7
C18	A	185	49	7C	7
C19	A	290	46	7C	7
C20	A	23	37	5E	7
C21	A	66	72	7A	7
C22	A	18	20	4C	7
C23	A	277	46	4E	7
C24	A	77	72	8A	7
C25	A	257	66	1E	7
C26	A	171	50	7A	7
C27	B	211	69	7B	7
C28	B	209	55	8B	7
C29	B	170	104	6A	7
C30	A	73	118	7D	7
C31	A	37	65	5A	7
C32	A	25	118	5D	7
C33	A	163	45	6C	7
C34	A	165	68	6B	7
C35	A	282	12	8C	7
C36	A	154	83	7C	7
C37	A	214	10	4C	7
C38	A	58	118	6D	7
C39	A	68	85	1A	7
C40	A	293	66	2E	7
C41	A	128	57	6E	7
C42	A	185	63	5C	7
C43	B	274	30	3C	2
C44	B	274	36	3C	2
C45	B	282	36	4C	2
C46	B	282	30	4C	2
C47	B	100	55	7C	2
C48	A	41	118	5D	7
C49	A	121	86	6E	7
C50	A	107	62	7E	7
C51	A	138	64	7E	7
C52	A	125	55	7E	7
C53	B	80	118	7D	7
C54	A	52	38	5B	7
C55	A	37	37	5B	7
C56	A	65	37	6B	7
C57	A	47	20	3A	7
C58	A	32	19	3B	7
C59	A	62	20	4B	7
C60	B	65	118	8D	7
C61	B	49	118	8C	7
C62	B	32	118	7C	7
C63	B	228	14	2C	2
C64	B	150	112	8B	7
C65	B	150	97	8B	7
C66	B	215	18	2C	2
C67	B	293	40	6D	2
C68	B	288	41	6D	2
C69	B	78	16	8D	2
C70	B	83	17	8D	2
C71	A	80	43	7B	7
C72	A	92	98	7B	7

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
C73	A	280	33	5D	2
C74	A	274	27	4D	2
C75	A	75	85	1A	7
C76	A	61	53	1B	7
C77	A	84	70	1A	7
C78	A	52	67	1A	7
C79	A	131	86	6D	7
C80	A	114	59	7D	7
C81	A	113	51	7D	7
C82	A	128	60	7D	7
C83	A	14	69	4A	7
C84	A	31	66	5A	7
D1	A	71	61	7C	2
D1	A	71	61	1C	7
D1	A	71	61	1C	7
D1	A	71	61	1D	7
D1	A	71	61	8A	7
D2	B	40	53	11A	2
D2	B	40	53	6A	7
D3	B	24	53	11C	2
D3	B	24	53	5A	7
D4	A	159	48	6C	2
D4	A	159	48	6E	2
D4	A	159	48	6A	5
D4	A	159	48	2C	7
D4	A	159	48	2C	7
D4	A	159	48	2D	7
D4	A	159	48	6C	7
D5	A	198	77	2B	4
D5	A	198	77	5B	7
D6	A	198	48	2D	4
D6	A	198	48	7C	7
D7	A	198	92	2A	4
D7	A	198	92	6C	7
D8	A	198	63	2C	4
D8	A	198	63	6C	7
D9	A	179	80	3B	4
D9	A	179	80	5C	7
D10	A	179	65	3D	4
D10	A	179	65	6B	7
D11	A	179	95	3C	4
D11	A	179	95	6B	7
D12	B	135	83	6A	5
D12	B	135	83	7E	7
D13	A	204	9	2A	2
D13	A	204	9	2A	2
D13	A	204	9	2B	2
D13	A	204	9	2B	2
D13	A	204	9	4C	7
D14	B	23	23	2A	5
D14	B	23	23	4C	7
D15	B	23	116	2A	3
D15	B	23	116	7C	7
D16	B	150	81	4A	5
D16	B	150	81	7C	7
D17	B	40	116	2B	3
D17	B	40	116	8C	7
D18	B	56	116	2C	3
D18	B	56	116	8D	7
D19	B	71	116	2D	3
D19	B	71	116	7D	7
D20	A	268	46	3A	4
D20	A	268	46	3B	4
D20	A	268	46	3B	4
D20	A	268	46	4B	4
D20	A	268	46	4E	7
D21	B	84	58	9A	2
D21	B	84	58	2A	7
D22	B	173	107	7E	2
D22	B	173	107	6A	7
D23	A	17	24	3A	5
D23	A	17	24	5E	7
D24	A	33	115	3A	3
D24	A	33	115	5D	7

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
D25	A	50	115	3B	3
D25	A	50	115	6D	7
D26	A	66	115	3C	3
D26	A	66	115	6D	7
D27	A	81	115	3D	3
D27	A	81	115	7D	7
D28	B	264	58	4B	4
D28	B	264	58	1E	7
D29	B	245	58	4C	4
D29	B	245	58	3E	7
D30	B	282	58	7B	4
D30	B	282	58	3E	7
D31	B	301	58	7C	4
D31	B	301	58	2E	7
D32	B	53	23	2B	5
D32	B	53	23	4A	7
D33	A	272	15	3C	2
D33	A	272	15	4C	2
D33	A	272	15	4E	2
D33	A	272	15	4E	2
D33	A	272	15	5D	2
D33	A	272	15	8C	7
D34	A	62	61	7C	2
D34	A	62	61	2B	7
D34	A	62	61	2C	7
D34	A	62	61	2C	7
D34	A	62	61	2C	7
D34	A	62	61	2D	7
D34	A	62	61	7A	7
D35	B	218	43	5C	2
D35	B	218	43	7A	7
D36	A	281	46	4D	2
D36	A	281	46	8E	4
D36	A	281	46	9E	4
D36	A	281	46	1D	7
D36	A	281	46	7C	7
D37	B	221	55	6A	2
D37	B	221	55	8A	7
D38	A	236	46	10B	4
D38	A	236	46	6C	7
D39	A	248	46	10A	4
D39	A	248	46	5C	7
D40	A	118	58	7E	4
D40	A	118	58	6E	7
D41	B	170	47	4A	2
D41	B	170	47	7A	7
D42	B	221	72	6B	2
D42	B	221	72	7A	7
D43	B	147	109	6E	2
D43	B	147	109	8B	7
D44	B	38	23	2C	5
D44	B	38	23	4A	7
D45	B	67	23	2D	5
D45	B	67	23	4B	7
D46	A	47	24	3B	5
D46	A	47	24	5A	7
D47	A	32	24	3C	5
D47	A	32	24	6A	7
D48	A	61	24	3D	5
D48	A	61	24	6A	7
D49	B	271	19	4E	2
D50	A	89	101	2D	3
D50	A	89	101	3C	7
D50	A	89	101	3C	7
D50	A	89	101	3D	7
D50	A	89	101	7B	7
D51	A	74	45	8B	2
D51	A	74	45	8B	2
D51	A	74	45	8C	2
D51	A	74	45	4E	4
D51	A	74	45	7B	7
D52	A	258	46	3A	4
D52	A	258	46	3B	7
D52	A	258	46	3C	7

ROHDE & SCHWARZ

Benennung: EE DATENGENERATOR
Designation: DATA_GENERATOR

Sprache: *Lang.:* de

Blatt: *Sh.:* 1 +

Aei: *C.I.:* 04.02

Typ: *Type:* SMIQB11

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* DR

Sachnr.: *Part No.:* **1085.4560.01 XY**

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
D52	A	258	46	3C	7
D52	A	258	46	3C	7
D52	A	258	46	3D	7
D52	A	258	46	4E	7
G1	B	288	34	6D	2
G2	B	185	105	7F	2
G3	B	80	28	9D	2
L1	B	225	22	2C	2
L2	B	211	6	2C	2
L3	A	298	40	6D	2
L4	A	291	40	6D	2
L5	A	83	20	8D	2
L6	B	79	13	8D	2
L7	A	281	30	4D	2
L8	A	48	64	1A	7
L9	A	80	67	1A	7
L10	A	64	48	1B	7
L11	A	71	82	1A	7
L12	A	128	84	7D	7
L13	A	114	66	7D	7
L14	A	119	51	7D	7
L15	A	131	65	8D	7
L16	A	31	62	5A	7
L17	A	14	63	4A	7
L18	B	91	72	7A	7
L19	B	140	64	6E	7
P1	B	290	22	5D	2
P2	B	293	22	5D	2
P3	B	170	98	8E	2
P4	B	174	113	8E	2
P5	B	180	110	7E	2
P6	B	286	20	5D	2
P7	B	267	13	4D	2
P8	B	156	45	4C	2
P9	B	153	45	4C	2
P10	B	141	100	6A	5
P11	B	138	116	7D	5
P12	B	138	105	7D	5
P13	B	136	100	8C	5
P14	B	133	100	8C	5
P15	B	136	110	7D	5
P16	B	133	116	7D	5
P17	B	131	110	7D	5
P18	B	128	116	7D	5
P19	B	128	105	7D	5
P20	B	126	110	7D	5
P21	B	131	100	8C	5
P22	B	126	100	7D	5
P23	B	123	116	7D	5
P24	B	123	105	7D	5
P25	B	118	116	7D	5
P26	B	121	110	7E	5
P27	B	121	100	7E	5
P28	B	116	110	7E	5
P29	B	118	105	7E	5
P30	B	116	100	7E	5
P31	B	113	116	7E	5
P32	B	113	105	7E	5
P33	B	110	110	7E	5
P34	B	110	100	7E	5
P35	B	108	116	7E	5
P36	B	108	105	7E	5
P37	B	105	110	7E	5
P38	B	105	100	7E	5
P39	B	103	105	7E	5
P40	B	103	116	7E	5
P41	B	141	70	4C	2
P42	B	152	97	4C	5
P43	B	152	94	4C	5
P44	B	141	73	6C	5
P45	B	118	46	6F	5
P46	B	156	52	4C	2
P47	B	210	46	5C	2
P48	B	155	57	6C	2

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
P49	B	210	43	5C	2
P50	B	222	46	5C	2
P51	B	153	49	6C	2
P52	B	153	52	6C	2
P53	B	97	58	7C	2
P54	B	206	47	6D	2
P55	B	222	44	6C	2
P56	B	210	49	6D	2
P57	B	206	50	6D	2
P60	B	159	95	5A	5
P61	B	156	95	5A	5
P62	B	130	50	6A	5
P64	B	98	95	6E	5
P65	B	102	43	9B	2
P66	B	90	48	9B	2
P67	B	88	48	9B	2
P68	B	103	95	7C	5
P69	B	100	48	9B	2
P70	B	93	48	9B	2
P71	B	98	48	9B	2
P72	B	86	32	9C	2
P73	B	90	43	10A	2
P74	B	100	43	10A	2
P75	B	97	43	10A	2
P76	B	87	43	10B	2
P77	B	95	48	10B	2
P78	B	92	43	10B	2
P79	B	95	43	10B	2
P80	B	138	100	8C	5
P81	B	140	61	7C	5
P82	B	152	69	6B	5
P83	B	155	69	6B	5
P84	B	81	32	9C	2
P85	B	78	32	9C	2
P86	B	183	106	7E	2
P87	B	183	104	7E	2
P88	B	163	106	6E	2
P89	B	222	49	4A	4
P90	B	97	68	6D	4
P91	B	182	72	6D	4
P92	B	184	69	6D	4
P93	B	186	66	6D	4
P94	B	183	41	6D	4
P97	B	222	41	11A	4
P98	B	207	62	11A	4
P99	B	210	51	11B	4
P100	B	207	59	11B	4
P101	B	138	50	7C	5
P102	B	141	75	6F	5
P103	B	146	75	6F	5
P104	B	141	80	6F	5
P105	B	110	48	7B	5
P119	B	104	48	6A	5
P120	B	107	48	6A	5
P121	B	100	110	6C	5
P122	B	115	46	6F	5
P124	B	121	46	6F	5
P125	B	133	50	5F	5
P127	B	140	58	5F	5
P128	B	98	105	4F	5
P129	B	100	100	5F	5
R1	B	207	19	2B	2
R2	B	188	78	8A	4
R3	B	183	111	7E	2
R4	B	275	10	5D	2
R5	B	157	56	4B	2
R6	B	157	103	7F	2
R7	B	22	119	1A	3
R8	B	88	61	9A	2
R9	B	206	43	5C	2
R10	B	229	55	6A	2
R11	B	229	57	7A	2
R12	B	229	59	7A	2
R13	B	229	61	7A	2

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R14	B	229	63	7A	2
R15	B	181	98	7F	2
R16	B	185	49	3A	2
R17	B	159	92	5A	5
R18	B	112	88	6A	5
R19	B	107	82	6A	5
R20	B	122	50	6A	5
R21	B	161	69	5B	5
R22	B	185	51	3A	2
R23	B	185	53	3A	2
R24	B	187	25	10E	5
R25	B	187	38	9E	5
R26	B	182	38	9E	5
R27	B	182	25	9E	5
R28	B	176	25	10D	5
R29	B	176	38	9D	5
R30	B	171	25	9D	5
R31	B	171	38	9D	5
R32	B	166	38	9D	5
R33	B	166	25	10D	5
R34	B	185	55	4A	2
R35	B	185	59	4A	2
R36	B	185	61	4A	2
R37	B	185	63	4A	2
R38	B	88	64	9A	2
R39	B	229	65	7A	2
R40	B	229	67	8A	2
R41	B	73	51	9A	2
R42	B	62	51	9A	2
R43	B	177	73	3C	4
R44	B	181	90	3D	4
R45	B	180	70	3E	4
R46	B	273	83	6A	4
R47	B	161	38	9D	5
R48	B	156	38	9C	5
R49	B	156	25	10C	5
R50	B	151	38	9C	5
R51	B	151	25	9C	5
R52	B	148	38	9C	5
R53	B	148	25	10C	5
R54	B	139	38	9C	5
R55	B	139	25	9C	5
R56	B	136	38	9C	5
R57	B	136	25	10C	5
R58	B	196	78	8A	4
R59	B	126	38	9A	5
R60	B	161	25	9D	5
R61	B	121	38	9A	5
R62	B	123	27	10A	5
R63	B	113	27	9A	5
R64	B	115	38	9A	5
R65	B	110	38	9B	5
R66	B	110	25	10B	5
R67	B	105	38	9B	5
R68	B	105	25	9B	5
R69	B	100	38	9B	5
R70	B	100	25	10B	5
R71	B	95	38	9B	5
R72	B	95	25	9B	5
R73	B	131	25	10A	5
R74	B	131	38	9A	5
R75	B	229	69	8A	2
R76	B	39	119	1B	3
R77	B	55	119	1C	3
R78	B	248	52	11A	4
R79	B	250	52	11B	4
R80	B	72	90	3B	6
R81	B	282	89	3B	6
R82	B	70	119	1D	3
R83	B	121	41	5E	5
R84	B	25	18	3A	5
R85	B	55	19	3B	5
R86	B	40	18	3C	5
R87	B	69	19	3D	5

ROHDE & SCHWARZ

Benennung: EE DATENGENERATOR
Designation: DATA_GENERATOR

Sprache: *Lang.:* de

Blatt: *Sh.:* 2 +

Aei: *C.I.:* 04.02

Typ: *Type:* SMIQB11

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* DR

Sachnr.: *Part No.:* **1085.4560.01 XY**

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R88	B	217	36	3C	2
R89	B	192	36	3A	2
R90	B	212	23	2B	2
R91	B	207	36	3B	2
R92	B	202	23	2A	2
R93	B	220	36	3F	2
R94	B	218	23	2F	2
R95	B	287	22	5E	2
R96	B	189	25	2A	2
R97	B	199	25	2A	2
R98	B	207	23	2B	2
R99	B	216	23	2C	2
R100	B	197	36	3A	2
R101	B	202	36	3A	2
R102	B	212	36	3B	2
R103	B	49	58	9C	2
R104	B	258	25	2D	2
R105	B	258	34	3D	2
R106	B	126	25	9A	5
R107	B	251	25	2E	2
R108	B	250	36	3E	2
R109	B	248	36	3E	2
R110	B	248	25	2E	2
R111	B	253	25	2E	2
R112	B	253	36	3E	2
R113	B	191	82	8A	4
R114	B	192	86	8A	4
R115	B	193	82	8A	4
R116	B	194	86	8A	4
R117	B	196	82	8A	4
R118	B	197	86	8A	4
R119	B	167	100	8D	2
R120	B	160	107	6F	2
R121	B	91	68	10A	2
R122	B	89	66	10A	2
R123	B	89	68	10A	2
R124	B	91	66	11A	2
R125	B	135	47	5E	5
R126	B	28	50	11B	2
R127	B	30	50	11B	2
R128	B	32	50	11B	2
R129	B	16	50	11C	2
R130	B	15	50	11C	2
R131	B	13	50	11C	2
R132	B	147	93	4A	5
R133	B	115	41	5E	5
R134	B	155	92	4B	5
R135	B	140	54	6E	5
R136	B	217	11	2A	2
R137	B	218	11	2B	2
R138	B	155	60	6C	2
R139	B	194	76	8B	4
R140	B	196	75	8B	4
R141	B	193	73	8B	4
R142	B	196	71	8B	4
R143	B	193	70	8B	4
R144	B	196	68	8B	4
R145	B	193	67	8B	4
R146	B	196	65	8B	4
R147	B	193	62	8B	4
R148	B	196	61	8B	4
R149	B	193	60	8C	4
R150	B	196	58	8C	4
R151	B	193	57	8C	4
R152	B	196	55	8C	4
R153	B	193	54	8C	4
R154	B	196	52	8C	4
R155	B	193	51	8C	4
R156	B	196	50	8C	4
R157	B	193	48	8C	4
R158	B	196	46	8C	4
R159	B	193	45	8D	4
R160	B	196	43	8D	4
R161	B	193	41	8D	4

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R162	B	196	40	8D	4
R163	B	180	80	6B	4
R164	B	179	77	6B	4
R165	B	177	77	6B	4
R166	B	178	82	6B	4
R167	B	173	78	6C	4
R168	B	172	78	6C	4
R169	B	170	78	6C	4
R170	B	169	78	6C	4
R171	B	179	90	6D	4
R172	B	174	87	6D	4
R173	B	179	88	6D	4
R174	B	179	94	6D	4
R175	B	179	92	6D	4
R176	B	174	95	6D	4
R177	B	171	90	6D	4
R178	B	169	90	6D	4
R179	B	175	73	6D	4
R180	B	169	73	6E	4
R181	B	182	77	5D	4
R182	B	182	84	5D	4
R183	B	183	78	5D	4
R184	B	185	81	5D	4
R185	B	183	46	5D	4
R186	B	128	50	6A	5
R187	B	155	100	6F	2
R188	B	141	106	7C	5
R189	B	120	49	6E	5
R190	A	114	55	7E	4
R191	B	90	109	2E	3
R192	B	290	53	9E	4
R193	B	257	53	10B	4
R194	B	233	46	10C	4
R195	B	84	105	2E	3
R196	B	97	112	3D	7
R197	B	207	45	5C	2
R198	B	204	48	7D	2
R199	B	84	106	2E	3
R200	B	169	76	3B	4
R201	B	169	95	3C	4
R202	B	169	70	3D	4
R203	B	261	51	3D	7
R204	B	235	55	11B	4
R205	B	118	41	4E	5
R206	B	90	63	1D	7
R207	B	290	50	1D	7
R208	B	93	63	2D	7
R209	B	167	42	2D	7
R210	B	221	23	2D	2
R211	B	222	36	3D	2
R212	B	240	26	9E	5
R213	B	237	38	9E	5
R214	B	136	105	8C	5
R215	B	131	103	7D	5
R216	B	133	103	8D	5
R217	B	160	105	6E	2
R218	B	242	25	2D	2
R219	B	245	36	3D	2
R220	B	101	69	6A	5
R221	B	133	88	6B	5
R222	B	155	107	6F	2
R223	B	226	55	6A	2
R224	B	226	57	7A	2
R225	B	226	59	7A	2
R226	B	226	61	7A	2
R227	B	226	63	7A	2
R228	B	226	65	7A	2
R229	B	226	67	8A	2
R230	B	226	69	8A	2
R231	B	224	70	6B	2
R232	B	229	70	6B	2
R233	B	225	72	7B	2
R234	B	225	74	7B	2
R235	B	225	76	7B	2

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
R236	B	225	78	7B	2
R237	B	225	80	7B	2
R238	B	225	82	8B	2
R239	B	226	49	3A	4
R240	B	226	51	4A	4
R241	A	174	41	5E	4
R242	A	175	42	3F	4
R243	A	245	70	4A	4
R244	A	246	69	4A	4
R245	A	255	62	4B	4
R246	A	255	60	4A	4
R247	A	236	72	4C	4
R248	A	235	71	4C	4
R249	A	235	65	4C	4
R250	A	235	63	4C	4
R251	A	273	69	6A	4
R252	A	271	71	6A	4
R253	A	264	62	7A	4
R254	A	264	60	6B	4
R255	A	291	71	6C	4
R256	A	290	69	6C	4
R257	A	291	62	6C	4
R258	A	291	60	7C	4
R259	B	116	90	7E	5
R260	B	89	105	2E	3
V2	B	165	98	5E	2
V3	B	239	52	11B	4
V4	B	136	44	8E	5
V5	B	131	44	8C	5
V6	B	125	44	9C	5
V7	B	183	115	7E	2
V9	B	158	101	7E	2
V10	B	166	107	8D	2
X5	B	102	77	11A	2
X6	B	102	75	11A	2
X21A	B	93	60	8A	2
X21B	B	93	57	8A	2
X21C	B	91	57	8A	2
X21D	B	88	57	8A	2
X58A	B	91	52	8A	2
X58B	B	89	52	8A	2
X59A	B	103	52	8A	2
X59B	B	100	52	8A	2
X63A	B	95	52	8A	2
X63B	B	97	52	8A	2
X340	B	189	11	1A	2
X341	B	254	22	2F	2
X350A	B	236	93	3A	6
X350B	B	236	41	1A	6
X351A	B	22	93	4A	6
X351B	B	22	41	2A	6
Z1	B	207	27	2B	2
Z2	B	202	27	2A	2
Z3	B	197	27	2A	2
Z4	B	192	27	2A	2
Z5	B	220	27	2F	2
Z6	B	232	27	2C	2
Z7	B	255	27	2D	2
Z8	B	250	27	2E	2
Z9	B	187	34	10E	5
Z10	B	177	34	10D	5
Z11	B	171	34	9D	5
Z12	B	166	34	10D	5
Z13	B	161	34	9D	5
Z14	B	156	34	10C	5
Z15	B	151	34	9C	5
Z16	B	148	34	10C	5
Z17	B	139	34	9C	5
Z18	B	136	34	10C	5
Z19	B	126	34	9A	5
Z20	B	182	34	9E	5
Z21	B	121	34	10A	5
Z22	B	116	34	9A	5
Z23	B	110	34	10B	5

Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*
Z24	B	105	34	9B	5
Z25	B	100	34	10B	5
Z26	B	95	34	9B	5
Z27	B	131	34	10A	5
Z28	B	248	27	2E	2
Z29	B	253	27	2E	2
Z30	B	212	27	2B	2
Z31	B	217	27	2C	2
Z32	B	222	27	2D	2
Z33	B	237	34	9E	5
Z34	B	227	27	2C	2
Z35	B	245	27	2D	2

el. Kennz *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*

el. Kennz. *Part*	Seite *Side*	X	Y	Planq. *Sqr*	Bl. *Pg*

ROHDE & SCHWARZ	Benennung: *Designation:* EE DATENGENERATOR / DATA_GENERATOR	Sprache: *Lang.:* de	Blatt: *Sh.:* 4 +	Aei: *C.I.:* 04.02	
Typ: *Type:* SMIQB11	Datum: *Date:* 99–06–10	Abteilung: *Dpt:* 1GPK	Name: *Name:* DR	Sachnr.: *Part No.:* **1085.4560.01 XY**	

ROHDE&SCHWARZ

SERVICE Instructions for the Fading-Simulator Module

1085.4060.02

Contents

7. Testing and Repair of the Module

7.1 Function Description

The Fading Simulator (FSIM1) may optionally be looped in the complex modulation signal (I and Q) of the SMIQ. The modulation signal may either be obtained from the modulation-coder board (Option SMIQ B10, MCOD) or from an external source, depending on the equipment fitted and the cabling. With fading active, the analog input signal is digitalized (AD converter), it is influenced digitally according to the selected fading profile and, finally, converted to a complex analog signal again by means of a DA converter.

An SMIQ may be equipped with one or two Fading Simulator modules, which are designated FSIM1 and FSIM2. If one Fading Simulator is fitted, it provides 1 channel and 6 paths. If two modules are fitted, they can be configured either as 1 channel and 12 paths or 2 channels with 6 paths, each. For two-channel operation, a second SMIQ is required, since only one I/Q modulator is provided per instrument.

7.2 Service Conception

The module is a very complex hybrid circuit which is essentially set up in digital form. An exact error diagnosis on the component level or repair cannot be performed in the R&S departments or by the customer. A faulty module has to be replaced. The defective module must be shipped to the manufacturer for detailed diagnosis and repair.

This document is organized, accordingly. The service engineer is intended to be able to unambiguously identify a faulty fading module.

7.3 Test Instruments and Utilities

- Spectrum analyzer, frequency range 1.5 GHz e.g., FSA
- Dual Arbitrary Waveform Generator with variable dc offset e.g., ADS
- DC voltmeter e.g., UDS5

7.4 Troubleshooting

If a failure of the Fading Simulator is assumed, call the selftest first.

➢ UTILITIES --> TEST --> **TEST FSIM**

7.4.1 Selftest

The complete selftest consists of various steps which are processed successively. If an error occurs in one of the selftest steps, the selftest is not continued since each step requires trouble-free processing of the preceding steps (e.g., the internal selftest of the fading board need not be triggered until all of the supply voltages have been measured correctly). If the instrument contains two FSIMs, each of the modules is tested, individually.

7.4.1.1 Test of the Supply Voltages

The supply voltages of the fading board are partly applied externally (via filters) and partly derived from these external voltages onboard. The voltages can be connected to the DIAG-5V measurement bus (X360.A19) via the diagnosis multiplexer (D91) of the fading board. The diagnosis A/D converter of the SMIQ is used to check the voltages from the host computer (A3, FRO).

The following voltages are measured :

Designation	Permitted range	Test point
3.3 V Voltage supply Delay RAM	3.15 V <= V <= 3.45 V	TP 2500 (FSIM1) TP 2600 (FSIM2)
5VCL Voltage supply clock generator	4.76 V <= V <= 5.24 V	TP 2503 (FSIM1) TP 2603 (FSIM2)
5VD Voltage supply digital unit	4.96 V <= V <= 5.44 V	TP 2504 (FSIM1) TP 2604 (FSIM2)

7.4.1.2 Internal Selftest of the Fading Board

This part of the selftest is triggered automatically, if all supply voltages have been measured correctly.

The following tests are performed during the internal selftest:

Reading and Writing to the Delay RAMs

The delay RAM of each path of the DSP can be read or written in a special ASIC mode. To test the delay RAM, the patterns 0555h and 0AAAh are written to one memory cell per path, each, and read.

Delay-RAM Address Test

This test is provided for error identification in the delay-RAM addressing.
The test is performed as follows:

1) The memory cell with the address 1h is occupied with the pattern 555h for the I-data and AAAh for the Q-data.

2)All other memory cells are written with AAAh for the I-data and 555h for the Q-data.
3)Subsequently, the first memory cell is read. If no addressing error occurred, the contents must be unchanged.

Test steps 1) to 3) are repeated analogously for the addresses 2h, 4h ... (walking one address).

DC Compensation

The input and output offsets of the I/Q paths are determined automatically and compensated in the digital unit. To this end, the I/Q inputs are first connected to GND via 50 Ω and the offset voltages are determined and corrected. In the following, the I/Q inputs are directly connected to the inputs via relays and the output offsets are measured using the input AD converters.

ADC/DAC Loop Back Test

The constant output mode of ASIC3 (paths 5 and 6) allows for generating a dc voltage at the I/Q-DA converters and measuring it via the loop-back using the appropriate AD converter.

The following 4 measurements are performed with +/- 0.4V for the I andd Q-paths, each.

Results of the Internal Selftest of the Fading Board

The internal selftest provides the following error codes

Selftest error code	Description
00000000h	no error
00000001h	ASIC-I/O-error path 1
00000002h	ASIC-I/O-error path 2
00000003h	ASIC-I/O-error path 3
00000004h	ASIC-I/O-error path 4
00000005h	ASIC-I/O-error path 5
00000006h	ASIC-I/O-error path 6
00000007h	Delay RAM error path 1
00000008h	Delay RAM error path 2
00000009h	Delay RAM error path 3
0000000Ah	Delay RAM error path 4
0000000Bh	Delay RAM error path 5
0000000Ch	Delay RAM error path 6
0000000Dh	DC AD compensation error I-input (the DC offset is too large to be compensated
0000000Eh	DC AD compensation error Q-input (the DC offset is too large to be compensated)
0000000Fh	DC DA compensation error I-output (the DC offset is too large to be compensated)
00000010h	DC DA compensation error Q-output (the DC offset is too large to be compensated)
00000011h	ADC/DAC loop back error I (the voltage measured via the AD converter was out of the permitted range).
00000012h	ADC/DAC loop back error Q (the voltage measured via the AD converter was out of the permitted range).

Note: the internal selftest is aborted as soon as an error was identified, i.e., the remaining tests are no longer performed.

7.4.1.3 Bypass Test

The bypass path of the FSIM1 module is tested by connecting a dc from the MCOD board to the inputs I_MODIN and Q_MODIN. This voltage is picked up at the module outputs I_MODOUT and Q_MODOUT by means of the diagnosis multiplexer and applied via the DIAG-5V line to the diagnosis-AD-converter of the SMIQ where it is measured. The test is not performed for the second module FSIM2, if fitted, since its bypass path is not used. If the instrument is not fitted with MCOD, the modulation signal is supplied externally. In this case, the selftest cannot generate any input signal, which is why the test is skipped. However, it can be performed manually by the service staff as follows:

- FADING SIM --> CONFIGURATION --> **OFF**
- Apply dc voltage < +/- 0.5 V to I-input (front panel)
- UTILITIES --> DIAG --> TPOINT --> STATE --> ON --> TP 2501
- Check, whether the measured voltage corresponds to the value applied
- Apply dc voltage < +/- 0.5 V to Q-input (front panel)
- UTILITIES --> DIAG --> TPOINT --> STATE --> ON --> TP 2502
- ➢ Check, whether the measured voltage corresponds to the value applied.

Description	Permitted range	Test point
I_OUT_T I-output	corresponding to the voltage applied	TP 2501 (FSIM1)
Q_OUT_T Q-output	corresponding to the voltage applied	TP 2502 (FSIM1)

7.4.1.4 Test of the Signal-path Input

A dc voltage from the MCOD module is fed to the inputs I_MODIN and Q_MODIN.

The AD converters for the I and Q paths are read on the Fading Board and the measured voltage is checked with respect to the given voltage ranges (taking into account the measuring accuracy of the AD converters).
If the instrument configuration does not include MCOD, this test is skipped.

The following error codes are returned by the FSIM:

Selftest error code	Description
00000000h	All voltages are in the permitted range
00000001h	Voltage at the I-input is too low
00000002h	Voltage at the I-input is too high
00000003h	Voltage at the Q-input is too low
00000004h	Voltage at the Q-input is too high

7.4.1.5 Test of the Signal-path Output

The constant output mode of the ASIC3 (paths 5 and 6) allows for generating a dc voltage at the I/Q-DA converters.

These voltages are picked up at the module outputs I_MODOUT and Q_MODOUT using the diagnosis multiplexer and applied via the DIAG-5V line to the diagnosis AD converter. There, they are measured and compared to the rated values.

7.4.2 Additional Tests

Imbalances between the I-path and the Q-path concerning attenuation and delay characteristics of the input and output filters lead to insufficient suppression of the image spectrum. The image spectrum has the same offset from the carrier as the wanted spectrum but on the other side.

Error description	Remedy
Image spectrum is attenuated less than 40 dB. Attenuation is, however, clearly visible.	Adjustment of the input and output filters was varied. Readjust FSIM.
Image spectrum is not attenuated.	I or Q-signal-paths interrupted. This error is located by the selftest if MCOD is fitted to the instrument. If MCOD is not fitted to the instrument, the signal-path input is not tested, which is why the error may occur although no error was found by the selftest.

7.5 Testing and Adjustment

As explained already under section "7.2 Service Conception" faulty boards have to be repaired, tested and adjusted with the manufacturer.

7.5.1 Modification State

The modification state and model of the individual boards is indicated with UTILITIES --> DIAG --> CONF. The modification state is coded by means of the resistors R469 to R472, the model by means of the resistors R467 and R468.

7.5.2 Jumpers

See "JUMPER SETTING" label on the screening cover.

7.5.2.1 Only FSIM1 Fitted (6 Paths)

This is the basic setting of the option.

Connect X1.1 to X1.2
Connect X8.1 to X8.2
Connect X9.1 to X9.2
Connect X12.2 to X12.3
Connect X13.1 to X13.2
Connect X15.1 to X15.2
Connect X16.1 to X16.2

7.5.2.2 FSIM1 and FSIM2 Fitted (12 Paths)

FSIM1

Connect X1.1 to X1.2
Connect **X8.2** to **X8.3**
Connect **X9.2** to **X9.3**
Connect X12.2 to X12.3
Connect **X13.2** to **X13.3**
Connect X15.1 to X15.2
Connect **X16.2** to **X16.3**

FSIM2

Connect **X1.2** to **X1.3**
Connect **X8.2** to **X8.3**
Connect **X9.2** to **X9.3**
Connect **X12.1** to **X12.2**
Connect **X13.2** to **X13.3**
Connect **X15.2** to **X15.3**
Connect **X16.2** to **X16.3**

Variations of the basic setting are **bold-typed**.

7.5.3 Diagnostic Test Points

UTILITIES --> DIAG --> TPOINT --> STATE --> ON --> TP xxxx

Test point	Description
TP 2500	FSIM1 + 3.3 V +/- 0.1 V, voltage supply
TP 2501	FSIM1 I_OUT_T, I-output signal at X367 and X368
TP 2502	FSIM1 Q_OUT_T, Q-output signal at X370 and X371
TP 2503	FSIM1 +5VCL, rated voltage supply to clock generator: 5 V +/- 0.24 V
TP 2504	FSIM1 +5VD, voltage supply digital unit Rated value: +5.2V +/- 0.24 V
TP 2505	GND
TP 2506	GND
TP 2507	GND
TP 2600	FSIM2 + 3.3 V +/- 0.1 V, voltage supply
TP 2601	FSIM2 I_OUT_T, I-output signal at X367 and X368
TP 2602	FSIM2 Q_OUT_T, Q-output signal at X370 and X371
TP 2603	FSIM2 +5VCL, rated voltage supply to clock generator: 5 V +/- 0.24 V
TP 2604	FSIM2 +5VD, voltage supply to digital unit Rated value: +5.2V +/- 0.24 V
TP 2605	GND
TP 2606	GND
TP 2607	GND

7.5.4 DC Compensation

The automatic dc compensation can be called via UTILITIES --> CALIB --> FSIM. It is also contained in the internal selftest onboard (cf. 7.4.1.2 Internal Selftest of the Fading Board).

7.6 Removal and Assembly

After opening the instrument and unlocking the motherboard disconnect the coaxial connection at the module. The module can then be removed from its slot. Undo screws and take off screening cover.
For assembly and replacement, proceed in the reverse order.

7.7 External Interfaces

7.7.1 Interface to the Motherboard

Pin	Name	Input/Output	Origin/Destin.	Specified range	Signal description
X360.A1					
X360.A2					
X360.A3					
X360.A4					
X360.A5					
X360.A6					
X360.A7					
X360.A8					
X360.A9					
X360.A10					
X360.A11	GND		A200, MBIQ		Ground
X360.A12	SERBUS-CLK	Input	A3, FRO, X31.40	HCT level	Serbus clock
X360.A13	GND		A200, MBIQ		Ground
X360.A14	SERBUS-OUT	Output	A3, FRO, X31.39	HCT level	Serbus data
X360.A15	SERBUS-IN	Input	A3, FRO, X31.39	HCT level	Serbus data
X360.A16	SERBUS-SYNC	Input	A3, FRO, X31.37	HCT level	Serbus sync
X360.A17	SERBUS-INT	Output	A3, FRO, X31.38	HCT level	Serbus interrupt
X360.A18	Reset-P	Input	A3, FRO, X31.28	HCT level	Serbus reset
X360.A19	DIAG-5V	Output	A3, FRO, X31.44	-5 V to +5 V	Diagnosis
X360.A20	READY	Output	A3, FRO, X31.50 for FSIM1 or A3, FRO, X31.49 for FSIM2	HCT level	Serbus handshake 1
X360.A21	GND		A200, MBIQ		Ground
X360.A22					
X360.A23	GND		A200, MBIQ		Ground
X360.A24	VA15-P	Input	A2, POWS1	14.85 to 15.75 V max. 450 mA	15 Volt power supply
X360.A25	GND		A200, MBIQ		Ground
X360.A26	VA7.5-P	Input	A2, POWS1	7.45 to 7.95 V max. 300 mA	7.5 V power supply
X360.A27	GND		A200, MBIQ		Ground
X360.A28	VD5-P	Input	A2, POWS1	5.15 to 5.25 V max. 2.3 A	5 V Digital power supply
X360.A29	GND		A200, MBIQ		Ground
X360.A30	VA15-N	Input	A2, POWS1	-15.75 to -14.85 V max. 150 mA	-15 V power supply
X360.A31	GND		A200, MBIQ		Ground
X360.A32	VD5-N	Input	A200, MBIQ	-5.3 to -5.1 V max. 400 mA	-5.2 V power supply

Pin	Name	Input/Output	Origin/Destin.	Specified range	Signal description
X360.B1					
X360.B2	GND		A200, MBIQ		Ground
X360.B3	EN_FAD	bi-directional	A360, FSIM1, / A360, FSIM2	TTL open collector	Enable Fading
X360.B4	DONE	Output	A3, FRO, X31.47	TTL open collector	Serbus handshake 2
X360.B5	DX0	Output	A360, FSIM2 or FSIM1, X360.B10	TTL	DSP serial prt transmit data
X360.B6	FSX0	Output	A360, FSIM2 or FSIM1, X360.B9	TTL	DSP serial port transmit frame
X360.B7	CLKX0	Output	A360, FSIM2 or FSIM1, X360.B8	TTL	DSP serial port transmit clock
X360.B8	CLKR0	Input	A360, FSIM2. or... FSIM1, X360.B7	TTL.	DSP serial port receive clock
X360.B9	FSR0	Input	A360, FSIM2 or FSIM1, X360.B6	TTL	DSP serial port Receive frame
X360.B10	DR0	Input	A360, FSIM2 or FSIM1, X360.B5	TTL	DSP serial port receive data
X360.B11	GND				Ground
X360.B12	CEEX	Input	A360, FSIM2 or FSIM1, X360.B14	TTL	Clock Enable Extern synchron. FSIM1 / FSIM2
X360.B13	GND				Ground
X360.B14	CEIN	Output	A360, FSIM2 or FSIM1, X360.B12	TTL	Clock Enable Intern synchron. FSIM1 / FSIM2
X360.B15					
X360.B16					
X360.B17					
X360.B18					
X360.B19					
X360.B20					
X360.B21	GND		A200, MBIQ		Ground
X360.B22					
X360.B23	GND		A200, MBIQ		Ground
X360.B24	VA15-P	Input	A2, POWS1	14.85.to.75 V current cf. X360.A24	15 Volt power supply
X360.B25	GND		A200, MBIQ		Ground
X360.B26	VA7.5-P	Input	A2, POWS1	7.45 ... 7.95 V current cf. . X360.A26	7.5 V power supply
X360.B27	GND		A200, MBIQ		Ground
X360.B28	VD5-P	Input	A2, POWS1	5.15 to 5.25 V current cf. X360.A28	5 V Digital power supply
X360.B29	VD5-P	Input	A2, POWS1	5.15 to 5.25 V current cf. X360.A28	5 V Digital power supply
X360.B30	VA15-N	Input	A2, POWS1	-15.75 to -14.85 V current cf. X360.A30	-15 V power supply
X360.B31	GND		A200, MBIQ		Ground
X360.B32	VD5-N	Input	A200, MBIQ	-5.3 to -5.1 V current cf. X360.A32	-5.2 V power supply

7.7.2 Coaxial Interfaces

7.7.2.1 Only FSIM1 Fitted (6 Paths)

Pin	Name	Input/Output	Origin/Destin.	Specified range	Signal description
X361	I_MODIN	Input	Instrument with MCOD: A320, MCOD, X325 Instrument without MCOD: A3, FRO, I(X244)	max. 1 Vpp at50 Ω, 0 to 8 MHz	I-input signal (I-part of modulation signal)
X362	I_NEXT	Output		see X361	not used
X363	Q_MODIN	Input	Instrument with MCOD: A320, MCOD, X328 Instrument without MCOD: A3, FRO, Q(X245)	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-input signal (Q-part of modulation signal)
X364	Q_NEXT	Output		see X363	not used
X365	EXT_CK	Output		TTL, 40 MHz	not used
X366	I_CASCIN	Input		see X361	not used
X367	I_MODOUT	Output	A240, IQMOD, X244	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-output signal (I-part of modulation signal with or without fading)
X368	I_FSIM	Output	A320, MCOD, X326	see X367	I-output signal of the Fading Simulator
X369	Q_CASCIN	Input		see X361	not used
X370	Q_MODOUT	Output	A240, IQMOD, X245	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-output signal (Q-part of modulation signal with or without fading)
X371	Q_FSIM	Output	A320, MCOD, X329	see X370	Q-output signal of the Fading Simulator

7.7.2.2 FSIM1 and FSIM2 Fitted (12 Paths)

FSIM1

Pin	Name	Input/Output	Origin/Destin.	Specified range	Signal description
X361	I_MODIN	Input	Instrument with MCOD: A320, MCOD, X325 Instrument without MCOD: A3, FRO, I(X244)	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-input signal (I-part of modulation signal)
X362	I_NEXT	Output	A360, FSIM2, X361	see X361	Routing the I-input signal to I_MODIN of FSIM2
X363	Q_MODIN	Input	Instrument with MCOD: A320, MCOD, X328 Instrument without MCOD: A3, FRO, Q(X245)	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-input signal (Q-part of the modulation signal)
X364	Q_NEXT	Output	A360, FSIM2, X363	see X363	Routing the Q-input signal to Q_MODIN of FSIM2
X365	EXT_CK	Output	A360, FSIM2, X365	TTL, 40 MHz	Main clock 40 MHz. Both FSIMs must use the clock of FSIM1 due to synchronization.
X366	I_CASCIN	Input	A360, FSIM2, X367	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-cascade input (for addition of the I-output signal to FSIM2)
X367	I_MODOUT	Output	A240, IQMOD, X244	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-output signal (I-part of the modulation signal with or without fading)
X368	I_FSIM	Output	A320, MCOD, X326	see X367	I-output ignal of the Fading Simulator
X369	Q_CASCIN	Input	A360, FSIM2, X370	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-cascade input (for addition of the Q-output signal to FSIM2)
X370	Q_MODOUT	Output	A240, IQMOD, X245	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-output signal (Q-part of the modulation signal with or without fading)
X371	Q_FSIM	Output	A320, MCOD, X329	see X370	Q-output signal of the Fading Simulator

FSIM2

Pin	Name	Input/Output	Origin/Destin.	Specified range	Signal description
X361	I_MODIN	Input	A360, FSIM1, X362	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-input signal (I-part of the modulation signal, from. FSIM1)
X362	I_NEXT	Output		see X361	not used
X363	Q_MODIN	Input	A360, FSIM1, X364	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-input signal (Q-part of the modulation signal, from FSIM1)
X364	Q_NEXT	Output		see X363	not used
X365	EXT_CK	Input	A360, FSIM1, X365	TTL, 40 MHz	Main clock 40 MHz. Both FSIMs must use the clock of FSIM1 due to synchronization.
X366	I_CASCIN	Input		see X361	not used
X367	I_MODOUT	Output	A360, FSIM1, X366	max. 1 Vpp at 50 Ω, 0 to 8 MHz	I-output signal (I-part of the modulation signal with fading of the FSIM2 paths
X368	I_FSIM	Output	AUX IN/OUT, X400	see X367	I-output signal of FSIM2
X369	Q_CASCIN	Input		see X361	not used
X370	Q_MODOUT	Output	A360, FSIM1, X369	max. 1 Vpp at 50 Ω, 0 to 8 MHz	Q-output-signal (Q-part of the modulation signal with fading of the FSIM2-paths)
X371	Q_FSIM	Output	AUX IN/OUT, X400	see X370	Q-output ignal of FSIM2

ROHDE&SCHWARZ

Schaltteillisten
numerisch geordnet

Part lists
in numerical order

Listes des pièces détachées
par numéros de référence

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
.	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VARO2=GRUNDAUSFUEHRUNG MODO2=BASIC_MODEL				
C1 ..4	CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4609.00	MURATA	GRM39COG***F50ZPT	
C5	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F50ZPT	
C6	CC 27PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0010.9323.00	MURATA	GRM39COG***F50ZPT	
C7	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F50ZPT	
C8	CC 27PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0010.9323.00	MURATA	GRM39COG***F50ZPT	
C9	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F50ZPT	
C10	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C11	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F50ZPT	
C12	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C13 ..16	CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4938.00	MURATA	GRM39X7R***K5C500PT*	
C17	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C18	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C19	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C20	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C21	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C22	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C23	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C24	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C25	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C26	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C27	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C28	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C29	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C30	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C31	CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	MURATA	GRM39COG***B50ZPT	
C32	CC 8,2PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4550.00	MURATA	GRM39COG***B50ZPT	
C33	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C34	CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8809.00	MURATA	GRM42-6COG 560F50ZPT	
C35	CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8809.00	MURATA	GRM42-6COG 560F50ZPT	
C36	CC 68PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.9746.00	MURATA	GRM39COG***F50ZPT	
C37	CC 68PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.9746.00	MURATA	GRM39COG***F50ZPT	
C38	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F50ZPT	
C39	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F50ZPT	
C40	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C41	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C42 ..49	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	eintragen in contained in
C50	CE 47UF +-10% 10V 7343 TANTALUM CHIP CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010 D2W	
C51	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C52	CE 47UF +-10% 10V 7343 TANTALUM CHIP CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010 D2W	
C53	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C54 ..58	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C59	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C60	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C61	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C62 ..69	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C70	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C71	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C72 ..94	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C95	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C96 ..99	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C100	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C101	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C102	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C103	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C104	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C105	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C106	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C107 ..110	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C111	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C112 ..114	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C115	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C116	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C117	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C118	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C119	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C120	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C121	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C122	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C123	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C124	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C125	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C126 ..135	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C136	CT 7P-30P 4,4X4 GN SMD CERAMIC CHIP TRIMMER	CT 0008.1235.00	PANASONIC	ECR-JA030E12	
C137 ..139	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C140	CT 7P-30P 4,4X4 GN SMD CERAMIC CHIP TRIMMER	CT 0008.1235.00	PANASONIC	ECR-JA030E12	

Comp. No.	Bezeichnung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	Einheit in contained in
C141	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C142	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C143 ..149	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C150	CC 3,3PF 0,1PF 50V NPO 06 SMD-CERAMIC-CAPACITOR	CC 0009.8285.00	MURATA	GRM39C0G***B50ZPT	
C151	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6C0G 180F50ZPT	
C152	CC 150PF+-1% 50V NPO 0603 MD-CERAMIC-CAPACITOR	CC 1051.4680.00	MURATA	GRM39C0G***F50ZPT	
C153 ..168	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C169 ..171	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C500PT*	
C172	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C173	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C174	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C175	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39C0G***F50ZPT	
C176 ..178	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C179	CT 7P-30P 4,4X4 GN SMD CERAMIC CHIP TRIMMER	CT 0008.1235.00	PANASONIC	ECR-JA030E12	
C180 ..182	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C183	CT 7P-30P 4,4X4 GN SMD CERAMIC CHIP TRIMMER	CT 0008.1235.00	PANASONIC	ECR-JA030E12	
C184 ..190	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C191	CC 150PF+-1% 50V NPO 0603 MD-CERAMIC-CAPACITOR	CC 1051.4680.00	MURATA	GRM39C0G***F50ZPT	
C192 ..206	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C207	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C208 ..213	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C214 ..216	CC 3,3PF 0,1PF 50V NPO 06 SMD-CERAMIC-CAPACITOR	CC 0009.8285.00	MURATA	GRM39C0G***B50ZPT	
C217	CC 820PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7381.00	MURATA	GRM42-6C0G 821F50ZPT	
C218	CC 820PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0007.7381.00	MURATA	GRM42-6C0G 821F50ZPT	
C219	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C220 ..222	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6C0G 180F50ZPT	
C223	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C224	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C225 ..230	CC 150PF+-1% 50V NPO 0603 MD-CERAMIC-CAPACITOR	CC 1051.4680.00	MURATA	GRM39C0G***F50ZPT	
C231 ..233	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C234	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C235	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C236	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C237	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C238	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C239	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6C0G 820F50ZPT	
C240	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C241	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C242 ..246	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C247	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C248 ..250	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C251 ..253	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50ZPT	
C254 ..257	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C258	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C259	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C260	CC 47PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4644.00	MURATA	GRM39COG***F50ZPT	
C261	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F50ZPT	
C262 ..266	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C267	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F50ZPT	
C268	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C270 ..272	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C275 ..277	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C279	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C281	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C282	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C283	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C284 ..286	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C287	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	PHILIPS_CO	2238 581 16627	
C292 ..295	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C296	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C297	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C298 ..316	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C317	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C318	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C319	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C320	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C321 ..324	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C325	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C327	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C328 ..332	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C333	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C334	CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4844.00	MURATA	GRM39X7R***K5C50OPT*	
C335 ..337	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 55649	
C338	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
C339	CE 10UF+-20%35V 7343 TANTALUM CHIP CAPACITOR	1078.3291.00	SIEMENS	B45197-A6106-M40*	
D1	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	NSC	74ACT573(SC)	
D2	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	NSC	74ACT573(SC)	

Kennz. Comp. No.	Benennung Designation	Bestellnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	contained in
D3 ..5	BG TH3034.1I FADING ASIC IC GATE ARRAY	BG 1085.1861.00	THESYS	TH3034.1	
D6	BL 74F32D 4X 2-INPUT OR QUAD 2-INPUT OR GATE	BL 0007.3670.00	PHILIPS_SE	(N)74F32(D)	
D7 ..12	BL 74ACT377SC 8XDFLIPFLOP IC OCTALD-FLIP-FLOP	BL 1051.4168.00	NSC	74ACT377SC	
D13	BJ HI5731BIB 1X12B-DAC D/A CONVERTER	1085.1890.00	HARRIS	HI5731BIB	
D14	BJ HI5731BIB 1X12B-DAC D/A CONVERTER	1085.1890.00	HARRIS	HI5731BIB	
D15	BL PC74HCT574T 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	BL 0007.6727.00	PHILIPS	(PC)74HCT574(T)	
D16	BL PC74HCT574T 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	BL 0007.6727.00	PHILIPS	(PC)74HCT574(T)	
D17	BJ AD9042AST 1X12B-ADC 12BIT 41MSPS AD-CONVERTER	1080.7578.00	ANALOG_DEV	AD9042AST	
D18	BJ AD9042AST 1X12B-ADC 12BIT 41MSPS AD-CONVERTER	1080.7578.00	ANALOG_DEV	AD9042AST	
D19 ..36	BC MCM6306D-15 32KX8 SRAM SRAM 32KX8 15NS	BC 1085.1810.00	SAMSUNG	KM68V257CJ-15	
D37	BL 74F74D 2XD-FF DUAL D-TYPE FLIPFLOP	BL 0007.3686.00	PHILIPS_SE	(N)74F74(D)	
D38	BL IDT49FCT805 CLK DRIV IC CLOCK DRIVER	BL 2058.6891.00	IDT	(IDT49)FCT805(SO)	
D39 ..44	BL 74ACT574SC 8XD-FF 3S OCTAL D FLIP-FLOP 3ST	BL 0008.2225.00	HARRIS	CD74ACT574M	
D45	BL IDT49FCT805 CLK DRIV IC CLOCK DRIVER	BL 2058.6891.00	IDT	(IDT49)FCT805(SO)	
D46	BL 74F175AD 4XD-FF QUAD D FLIP-FLOP	BL 0853.9580.00	PHILIPS_SE	N74F175AD	
D47	BL PC74HCT573T 8XD-FF 3S OCTAL D-TYPE FLIPFLOP	0812.8796.00	PHILIPS_SE	(PC)74HCT573(D/T)	
D48	BL 74ACT573SC 8XTRLATCH3S IC OCTAL TRANSP.LATCH 3ST	BL 0008.0751.00	NSC	74ACT573(SC)	
D49	BC MCM6726BWJ12 BICM SRAM IC BICMOS MEMORY	BC 0009.9830.00	MOTOROLA	MCM6726B(D)WJ(12/10)	
D50	BC MCM6726BWJ12 BICM SRAM IC BICMOS MEMORY	BC 0009.9830.00	MOTOROLA	MCM6726B(D)WJ(12/10)	
D51	BL 74F109D 2XJK-FF 2 JK-FLIPFLOP	BL 0007.4099.00	SIGNETICS	(N)74F109D	
D52	BL 74F00D 4X2IN NAND GATE QUAD 2INPUT NAND GATE	BL 0007.3628.00	PHILIPS_SE	(N)74F00(D)	
D53	BL 74F32D 4X 2-INPUT OR QUAD 2-INPUT OR GATE	BL 0007.3670.00	PHILIPS_SE	(N)74F32(D)	
D54	BL 74ACT00SC 4X 2-NAND IC QUAD 2INP NAND GATE	BL 0008.0668.00	RCA	CD74ACT00M	
D55	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D56	BL 74FCT157DT 4X2MULTIP IC 4X2 MULTIPLEXER	BL 1085.1790.00	IDT	(IDT74)FCT157(DT9	
D57	BL 74F20D 2X4INP NANDGATE DUAL 4-INPUT NAND GATE	BL 0007.3663.00	PHILIPS_SE	74F20D	
D58	BL 74ACT74SC 2XRSFLIPFLOP IC DUAL D-FLIPFLOP	BL 0008.0680.00	TOSHIBA	(TC74)ACT74(FN)	
D59	BL 74F11D 3X3INP AND GATE IC TRIPLE THREE-INP AND	BL 0380.1547.00	SIGNETICS	(N)74F11D	
D60	BC XC5204-5C 4K GAT FPGA IC LOGIC CELL ARRAY	1085.1878.00	XILINX	XC5204-5TQ144C	
D61	BL 74FCT138CTSO1-8DECODER IC 1-OF-8 DECODER	BL 1051.5164.00	IDT	(IDT74)FCT138C(TSO)	
D62	BL 74FCT138CTSO1-8DECODER IC 1-OF-8 DECODER	BL 1051.5164.00	IDT	(IDT74)FCT138C(TSO)	
D63 ..65	BL 74ACT32SC 4X2-IN OR IC QUAD 2-INPUT OR GATE	BL 1012.9385.00	HARRIS	CD74ACT32M	
D66	BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE	BL 2013.8620.00	FAIRCHILD	74ACT125SC(X)	
D67	BL 74F08D 4X 2-INPUT AND QUAD 2-INPUT AND GATE	BL 0007.3634.00	PHILIPS_SE	(N)74F08(D)	
D68	BL 74ACT164M 8BIT SHIFTR 8BIT SER/PAR SHIFT REG	BL 2007.5081.00	HARRIS	CD74ACT164M	
D69	BL 74ACT273 8X D-FF M.RES OCTAL D FLIP-FLOP	BL 1058.0745.00	HARRIS	(CD74)ACT273(M)	
D70	BL 74ACT273 8X D-FF M.RES OCTAL D FLIP-FLOP	BL 1058.0745.00	HARRIS	(CD74)ACT273(M)	
D71 ..78	BL 74FCT245ASO 8XBUSTRSCV IC 8XBUS TRSCV 74FCT245A	BL 2000.2264.00	IDT	IDT 74FCT245ASO	
D79	BL 74F86D 4X2INP EXORGATE QUAD 2INPUT EXOR-GATE	BL 0007.3692.00	PHILIPS_SE	(N)74F86(D)	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D80	BG TH3032.1C SERBUSD ASIC IC GATE ARRAY	BG 0008.6143.00	THESYS	TH3032.1C	
D81	BC TMS320C31PQL FLPTR DSP DIGITAL SIGNAL PROCESSOR	1078.3310.00	TEXAS	TMS320C31PQL60	
D82	BL PC74HCT164T 8B.SH.REG. SHIFT REGISTER	BL 0007.6440.00	PHILIPS_SE	(PC)74HCT164(D/T)	
D83	BL PC74HCT125T 4XBUFF. 3S QUAD LINE DRIVER	BL 0007.5395.00	PHILIPS_SE	(PC)74HCT125(D/T)	
D84	BL 74F32D 4X 2-INPUT OR QUAD 2-INPUT OR GATE	BL 0007.3670.00	PHILIPS_SE	(N)74F32(D)	
D85	BC MCM6726BWJ12 BICM SRAM IC BICMOS MEMORY	BC 0009.9830.00	MOTOROLA	MCM6726B(D)WJ(12/10)	
D86	BC MCM6726BWJ12 BICM SRAM IC BICMOS MEMORY	BC 0009.9830.00	MOTOROLA	MCM6726B(D)WJ(12/10)	
D87	BL 74ACT273 8X D-FF M.RES OCTAL D FLIP-FLOP	BL 1058.0745.00	HARRIS	(CD74)ACT273(M)	
D88	BL 74ACT574SC 8XD-FF 3S OCTAL D FLIP-FLOP 3ST	BL 0008.2225.00	HARRIS	CD74ACT574M	
D89	BL 74ACT574SC 8XD-FF 3S OCTAL D FLIP-FLOP 3ST	BL 0008.2225.00	HARRIS	CD74ACT574M	
D91	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D92	BL PC74HCT14T 6XINV.SCHM INV. SCHMITT-TRIGGER	BL 0007.6204.00	PHILIPS_SE	(PC)74HCT14(D/T)	
G1	EO 60,000MHZ QUARZOSZ QUARTZ CRYSTAL UNIT	1078.3427.00	SEIKO	SG 615 PH-C	
G2	EO 40,000MHZ QUARZOSZ QUARTZ CRYSTAL OSCILLATOR	1078.3133.00	SEIKO	SG 615 PH	
K1 ..8	SN GEPOLT 2XUM 5V MONOST. RELAY	1078.3262.00	MATSUSHITA	TQ2SA-5V(Z)	
L1 ..4	LD 680NH 10% 0,14A 1210 RF CHOKE	LD 0690.9195.00	SIEMENS	B82422-A3681-J(K)100	
L5 ..8	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L9	LD 2,2UH 10% 0,27A 1210 RF CHOKE	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L10	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L11	LD 2,2UH 10% 0,27A 1210 RF CHOKE	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L12	LD 2,2UH 10% 0,27A 1210 RF CHOKE	LD 0520.7870.00	SIEMENS	B82422-A1222-J(K)100	
L13	LD 6UH 4A 0,017OHM CHOKE	LD 0026.4761.00	FASTRON_GE	SSSC-6ROM-00	
L14	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L15	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L16	LD 2,7UH 10%0,55OHMO,355A CHOKE	LD 0067.2911.00	DALE	IM2	
L17	LD 2,7UH 10%0,55OHMO,355A CHOKE	LD 0067.2911.00	DALE	IM2	
L18	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L19	LD 5,5UH Q110/5,5MHZ COIL	0374.7053.00	TOKO	P119ANS-A4342 AH	
L20 ..23	LD 2,7UH 10%0,55OHMO,355A CHOKE	LD 0067.2911.00	DALE	IM2	
L24	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L25	LD 2,7UH 10%0,55OHMO,355A CHOKE	LD 0067.2911.00	DALE	IM2	
L26	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L27	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L28	LD 2,7UH 10%0,55OHMO,355A CHOKE	LD 0067.2911.00	DALE	IM2	
L29 ..31	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L32	LD 1,20UH10%0,180HMO,620A CHOKE	LD 0067.2870.00	DALE	IM2	
L35	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
L36	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L37	LD 5,5UH Q110/5,5MHZ COIL	0374.7053.00	TOKO	P119ANS-A4342 AH	
L38	LD 5,5UH Q110/5,5MHZ COIL	0374.7053.00	TOKO	P119ANS-A4342 AH	
L40 ..48	LD 5,5UH Q110/5,5MHZ COIL	0374.7053.00	TOKO	P119ANS-A4342 AH	
L49 ..52	LD SP-DROSSEL 15UH 2,45A CHOKE	1081.0283.00	SUMIDA	CDR125-150	
L53	LD 15UH 10% 0,16A 1210 RF CHOKE	LD 0009.5192.00	SIEMENS	B82422-A1153-J(K)100	
L54	LD 15UH 10% 0,16A 1210 RF CHOKE	LD 0009.5192.00	SIEMENS	B82422-A1153-J(K)100	
L55	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
L56	LD 1UH 10% 0,38A 1210 RF CHOKE	LD 6006.0130.00	SIEMENS	B82422-A1102-J(K)100	
N1 ..4	BO AD9631AR VF OPAMP IC OPAMP	1085.1803.00	ANALOG_DEV	AD9631AR	
N5	BO REF01CS 10V 20MA VREF VOLTAGE REFERENCE	1002.5129.00	PMI	REF01C(S)	
N6 ..13	BO AD9631AR VF OPAMP IC OPAMP	1085.1803.00	ANALOG_DEV	AD9631AR	
N14	BV PT6203C DC/DC-CONV DC/DC-CONVERTER	BV 1085.1884.00	POWER_TREN	PT6203C	
N15 ..17	BO LT1124CS8 2X OPAMP IC OPAMP	1036.4483.00	LINEAR_TEC	(LT)1124(CS8)	
N19	BO OP07CS8 OPAMP OPERATIONAL AMPLIFIER	0007.7781.00	LINEAR_TEC	LT1001(CS8)	
N23 ..25	BO OP07CS8 OPAMP OPERATIONAL AMPLIFIER	0007.7781.00	LINEAR_TEC	LT1001(CS8)	
R1	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R2	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	PHILIPS_CO	RC02	
R3	RG 1KO +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R4 ..15	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R16	RG 1KO +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R17	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R18	RG 1KO +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R19 ..24	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R25	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R26	RG 1K21 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R27	RG 1KO +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R28	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R29	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R30	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	PHILIPS_CO	RC02	
R31	RG 909 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7265.00	PHILIPS_CO	RC02	
R32 ..34	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R35	RG 68R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R36	RG 68R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6930.00	DRALORIC	CR 0603	
R37	RG 470R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R38	RG 470R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R39	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R40	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	Baugruppe contained in
R41	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R42	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R43	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R44	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	PHILIPS_CO	MRS 25	
R45	RG 470R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R46	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R47	RG 470R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6976.00	DRALORIC	CR 0603	
R48	RG 182 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9130.00	DRALORIC	CR 0603	
R49	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R50	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R51	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R52	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R53	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R54	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R55	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R56	RG 182 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9130.00	DRALORIC	CR 0603	
R57	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R58	RG 3R32 +-1% TK250 0603 SMD RESISTOR EIA0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R59	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R60	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R61 ..65	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R66	RG 1K21 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R67	RG 4K75 +-1% TK100 1206 RESISTOR CHIP	RG 0007.5820.00	PHILIPS_CO	RC02	
R68	RG 619 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9074.00	PHILIPS_CO	RC02	
R69	RG 619 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9074.00	PHILIPS_CO	RC02	
R70	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R71	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	D25	
R72	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R73	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R74	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R75	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R76	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R77	RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R78	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R79	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R80	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	PHILIPS_CO	RC02	
R81	RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9030.00	DRALORIC	CR 0603	
R82	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R83	RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	

Komp. Comp. No.	Bezeichnung Designation		Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R84	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R85	RG 3R32 +-1% TK250 SMD RESISTOR EIA0603	0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R86	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R87	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R88	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R89	RS 0,25W100 OHM+-20% POTENTIOMETER	SMD	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R90	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R91	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R92	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R93	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R94 ..105	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R106	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R107	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R108	RG 1,3 KOHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5708.00	PHILIPS_CO	RC02	
R109	RS 0,25W100 OHM+-20% POTENTIOMETER	SMD	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R110	RS 0,25W100 OHM+-20% POTENTIOMETER	SMD	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R111	RG 1,21KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.9968.00	ROEDERSTEI	D25	
R112	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R113	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R114	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R115	RG 1170HM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8756.00	PHILIPS_CO	MPC 01	
R116	RG 1,21KOHM+-1%TK100 CHIP RESISTOR	1206	RG 0006.9968.00	ROEDERSTEI	D25	
R117	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R118	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R119	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R120	RG 1K21 +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
R121 ..124	RG 15R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6899.00	DRALORIC	CR 0603	
R125 ..130	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	ROEDERSTEI	D25	
R131	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R132	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R133	RS 0,25W100 OHM+-20% POTENTIOMETER	SMD	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R134	RG 0-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R135	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	ROEDERSTEI	D25	
R136	RG 68R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6930.00	DRALORIC	CR 0603	
R137 ..139	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R140	RG 0-OHM WIDERSTAND SMD RESISTOR EIA0603	0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R141	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	ROEDERSTEI	D25	
R142	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R143	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
R144	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R145	RG 117OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8756.00	PHILIPS_CO	MPC 01	
R146	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R147	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R148	RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM	1206	RG 0007.5108.00	DRALORIC	CR 1206	
R149	RG 560R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9630.00	DRALORIC	CR 0603	
R150	RG 68R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6930.00	DRALORIC	CR 0603	
R151	RG 90,9 OHM+-1%TK100 SMD RESISTOR EIA0603	0603	1081.1773.00	PHILIPS_CO	RC 22 H	
R152	RG 90,9 OHM+-1%TK100 SMD RESISTOR EIA0603	0603	1081.1773.00	PHILIPS_CO	RC 22 H	
R153 ..163	RG 560R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9630.00	DRALORIC	CR 0603	
R164	RG 100R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5334.00	PHILIPS_CO	RC 22 H	
R165 ..176	RG 560R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.9630.00	DRALORIC	CR 0603	
R177	RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603	0603	0009.9030.00	DRALORIC	CR 0603	
R178	RG 15R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6899.00	DRALORIC	CR 0603	
R179	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	DRALORIC	CR 0603	
R180	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R181	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R182	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R183	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R184	RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603	0603	0009.9030.00	DRALORIC	CR 0603	
R185	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	DRALORIC	CR 0603	
R186 ..188	RG 220R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6953.00	DRALORIC	CR 0603	
R189	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R191 ..209	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R210	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R211	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R212 ..215	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R218 ..220	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R221	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	DRALORIC	CR 0603	
R222 ..225	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R226	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R227	RG 100,0KOH+-1%TK100 CHIP RESISTOR	1206	RG 0007.1948.00	ROEDERSTEI	D25	
R228	RG 1KO +-1% TK100 CHIP RESISTOR	1206	RG 0006.7271.00	ROEDERSTEI	D25	
R229	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R230	RG 1KO +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R231	RG 100,0KOH+-1%TK100 CHIP RESISTOR	1206	RG 0007.1948.00	ROEDERSTEI	D25	
R232	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R233	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R234	RG 1,3KOHM+-0,1%TK25 RESISTOR	1206	0010.1968.00	PHILIPS_CO	MPC 01	

Comp. No.	Designation		Stock No.	Manufacturer	Designation	contained in
R235	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R236	RG 549 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8827.00	PHILIPS_CO	MPC 01	
R237	RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8091.00	PHILIPS_CO	MPC 01	
R238	RG 549 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8827.00	PHILIPS_CO	MPC 01	
R239	RG 100 OHM+-0,1%TK25 SMD-RESISTOR	1206	0009.8033.00	PHILIPS_CO	MPC 01	
R240	RG 1,3KOHM+-0,1%TK25 RESISTOR	1206	0010.1968.00	PHILIPS_CO	MPC 01	
R241	RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206	1206	0009.8091.00	PHILIPS_CO	MPC 01	
R242	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	DRALORIC	CR 0603	
R243	RG 470R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6976.00	DRALORIC	CR 0603	
R244	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R245	RG 270R +-1% TK100 SMD RESISTOR EIA0603	0603	0010.9581.00	PHILIPS_CO	RC 22 H	
R246	RG 274 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5637.00	ROEDERSTEI	D25	
R247	RG 274 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5637.00	ROEDERSTEI	D25	
R248 ..252	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R253	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R254	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R255	RG 33,2 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5520.00	ROEDERSTEI	D25	
R256	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R257	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R259 ..264	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R265	RG 150R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R266	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R267 ..269	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R270	RS 0,25W 20 OHM+-20% SMD POTENTIOMETER		RS 0007.9561.00	BI_TECHNOL	23 B R... TR	
R271	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R272	RS 0,25W100 OHM+-20% SMD POTENTIOMETER		RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R273 ..275	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R276	RS 0,25W100 OHM+-20% SMD POTENTIOMETER		RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R277	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R278	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R279 ..290	RG 22,1 OHM+-1%TK100 RESISTOR CHIP	1206	RG 0007.5489.00	ROEDERSTEI	D25	
R291	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R292	RG 22R +-1% TK100 SMD RESISTOR EIA0603	0603	0009.6901.00	DRALORIC	CR 0603	
R293	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R294	RG 10R +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R295	RS 0,25W 20 OHM+-20% SMD POTENTIOMETER		RS 0007.9561.00	BI_TECHNOL	23 B R... TR	
R296	RG 7K5 +-1% TK100 SMD RESISTOR EIA0603	0603	0010.8440.00	PHILIPS_CO	RC 22 H	
R297 ..299	RG 10K +-1% TK100 SMD RESISTOR EIA0603	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R300	RS 0,25W100 OHM+-20% SMD POTENTIOMETER		RS 0007.9584.00	BI_TECHNOL	23 B R... TR	

Kennz. Comp. No.	Benennung Designation		Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R301	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..306	SMD RESISTOR EIA0603					
R308	RS 0,25W100 OHM+-20%	SMD	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
	POTENTIOMETER					
R309	RG 121 OHM+-1%TK100	0603	0009.9498.00	DRALORIC	CR 0603	
	SMD RESISTOR EIA0603					
R310	RG 1K21 +-1% TK100	0603	RG 0010.9817.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R311	RG 2K2 +-1% TK100	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R312	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R313	RG 20K +-1% TK100	0603	0010.9100.00	PHILIPS_CO	RC 22 H	
..315	SMD RESISTOR EIA0603					
R316	RG 562 OHM+-1%TK100	1206	RG 0006.9068.00	ROEDERSTEI	D25	
	CHIP RESISTOR					
R317	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
..374	SMD RESISTOR EIA0603					
R375	RG 10,0KOHM+-1%TK100	1206	RG 0007.0793.00	ROEDERSTEI	D25	
	RG CHIP RESISTOR					
R376	RG 10,0KOHM+-1%TK100	1206	RG 0007.0793.00	ROEDERSTEI	D25	
	RG CHIP RESISTOR					
R377	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R378	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R379	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R380	RG 47,5 OHM+-1%TK100	1206	RG 0007.5566.00	ROEDERSTEI	D25	
	RESISTOR CHIP					
R381	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R382	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R383	RG 1KO +-1% TK100	1206	RG 0006.7271.00	ROEDERSTEI	D25	
	CHIP RESISTOR					
R384	RG 182 OHM+-1%TK100	0603	0009.9130.00	DRALORIC	CR 0603	
	SMD RESISTOR EIA0603					
R385	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
..387	SMD RESISTOR EIA0603					
R388	RG 10,0KOHM+-1%TK100	1206	RG 0007.0793.00	ROEDERSTEI	D25	
	RG CHIP RESISTOR					
R389	RG 10K +-1% TK100	0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R390	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
..392	SMD RESISTOR EIA0603					
R393	RG 182 OHM+-1%TK100	0603	0009.9130.00	DRALORIC	CR 0603	
	SMD RESISTOR EIA0603					
R394	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R395	RG 2K2 +-1% TK100	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R396	RG 2K2 +-1% TK100	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R397	RG 1KO +-1% TK100	1206	RG 0006.7271.00	ROEDERSTEI	D25	
	CHIP RESISTOR					
R398	RG 1KO +-1% TK100	0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R399	RG 182 OHM+-1%TK100	0603	0009.9130.00	DRALORIC	CR 0603	
	SMD RESISTOR EIA0603					
R400	RG 2K2 +-1% TK100	0603	0009.7008.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R401	RG 10R +-1% TK100	0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
	SMD RESISTOR EIA0603					
R403	RG 3,32KOHM+-1%TK100	1206	RG 0007.5789.00	PHILIPS_CO	RC02	
	RESISTOR CHIP					
R404	RG 182 OHM+-1%TK100	0603	0009.9130.00	DRALORIC	CR 0603	
	SMD RESISTOR EIA0603					
R405	RG 3,32KOHM+-1%TK100	1206	RG 0007.5789.00	PHILIPS_CO	RC02	
	RESISTOR CHIP					
R406	RG 3,32KOHM+-1%TK100	1206	RG 0007.5789.00	PHILIPS_CO	RC02	
	RESISTOR CHIP					
R407	RG 392 OHM+-1%TK100	1206	RG 0007.5672.00	DRALORIC	CR 1206	
	RESISTOR CHIP					
R408	RG 10,0KOHM+-1%TK100	1206	RG 0007.0793.00	ROEDERSTEI	D25	
	RG CHIP RESISTOR					
R409	RG 47,5 OHM+-1%TK100	1206	RG 0007.5566.00	ROEDERSTEI	D25	
..419	RESISTOR CHIP					

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
R420	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R421	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R422	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R423	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R424	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R425	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R426	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R427	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R428	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R429	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R430	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R431	RG 47R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6924.00	PHILIPS_CO	RC 22 H	
R432	RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5489.00	ROEDERSTEI	D25	
R433	RG 0-OHM WIDERSTAND 1206 RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R434	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R435	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R436	RG 3R32 +-1% TK250 0603 SMD RESISTOR EIA0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R437 ..443	RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5357.00	PHILIPS_CO	RC 22 H	
R444	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R445	RG 3R32 +-1% TK250 0603 SMD RESISTOR EIA0603	0010.8362.00	PHILIPS_CO	RC 22 H	
R446	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R447	RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R448	RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R449	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	D25	
R450	RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R451	RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6982.00	PHILIPS_CO	RC 22 H	
R452 ..457	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	D25	
R458 ..461	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R462	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R463	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R464	RS 0,25W100 OHM+-20% SMD POTENTIOMETER	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R465	RS 0,25W100 OHM+-20% SMD POTENTIOMETER	RS 0007.9584.00	BI_TECHNOL	23 B R... TR	
R466	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	D25	
R468	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R470	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R471	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R472	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R473 ..478	RG 1K0 +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R479	RG 1K0 +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	Contained in
R480	RG 1KO +-1% TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	D25	
R481	RG 2K2 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7008.00	PHILIPS_CO	RC 22 H	
R482	RG 15R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6899.00	DRALORIC	CR 0603	
R483 ..487	RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603	0009.7020.00	PHILIPS_CO	RC 22 H	
R488	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	D25	
R489 ..492	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R493 ..496	RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603	0009.6947.00	PHILIPS_CO	RC 22 H	
R497	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R498	RG 121 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9498.00	DRALORIC	CR 0603	
R499	RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5340.00	PHILIPS_CO	RC 22 H	
R500 ..502	RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603	RG 0009.5328.00	PHILIPS_CO	RC 22 H	
R503	RG 82,5 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9052.00	DRALORIC	CR 0603	
R504	RG 82,5 OHM+-1%TK100 0603 SMD RESISTOR EIA0603	0009.9052.00	DRALORIC	CR 0603	
R507	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R509	RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R511	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	PHILIPS_CO	MRS 25	
V1 ..10	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V11	AK BCP69-25 P 20V TRANS MEDIUM POWER TRANSISTOR	0008.2002.00	PHILIPS	BCP 69-16 (25)	
V12	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V13	AK BCP68-16 N 20V TRANS MEDIUM POWER TRANSISTOR	0008.2019.00	PHILIPS	BCP68-25	
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 ..18	AD BAS16 75V UDI HIGH-SPEED DIODE	AD 0007.4924.00	VALVO	BAS16 (A6P)	
V19	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
V20	AK BC850B N 45V 200MA TRANSISTOR	AK 0007.7969.00	VALVO	BC850B	
W1	DW KABEL W1 CABLE W1	1085.4148.00			
W2	DW KABEL W2 CABLE W2	1085.4154.00			
X1	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X2 ..5	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X6	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X7	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X8	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X9	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X10	FP STIFTLEISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X11	FP STIFTLEISTE 2P.R2,54 PIN CONNECTOR	FP 0009.5992.00			
X12	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X13	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			

Comp. No.	Designation	Stock No.	Manufacturer	Designation	contained in
X14	FP STECKERLEISTE 12POL CONNECTOR 12P	FP 0701.5231.00	BINDER	11-0203-00-12	
X15	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X16	FP STIFTLEISTE 3P.R2,54 PIN CONNECTOR	FP 0009.6101.00			
X360	FP STECKERLEISTE 64P. CONNECTOR 64P.	FP 0008.5747.00	DEUT_ELCO	16 8457 064 002 025	
X361 ..371	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KG	
Z1 ..35	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z36 ..50	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z51	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z52 ..57	LD T-FILTER 3,3NF SMD SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z58	LD T-FILTER 100PF SMD SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z59	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
C136	B	16	34	3C	17	R110	B	301	64	4A	10	X6	B	30	28	6B	17
C140	B	54	34	3C	18	R133	B	246	85	3B	8	X7	B	18	66	7C	17
C179	B	235	69	3C	8	R270	B	38	20	3B	17	X7	B	18	66	7C	17
C183	B	273	69	3C	10	R272	B	293	69	5B	10	X7	B	18	66	7C	17
L19	B	18	46	2C	17	R276	B	285	85	3B	10	X7	B	18	66	7C	17
L37	B	32	46	3C	17	R295	B	77	20	3B	18	X8	B	34	10	3A	17
L38	B	32	39	4C	17	R300	B	17	22	4B	17	X8	B	34	10	3A	17
L40	B	70	39	4C	18	R308	B	56	22	4B	18	X9	B	34	13	3A	18
L41	B	70	46	3C	18	R464	B	44	45	5C	17	X9	B	34	13	3A	18
L42	B	57	46	2C	18	R465	B	82	45	5C	18	X10	B	58	66	7D	18
L43	B	256	56	4C	8	X2	B	252	81	4A	8	X10	B	58	66	7D	18
L44	B	245	56	3C	8	X2	B	252	81	4A	8	X10	B	58	66	7D	18
L45	B	231	56	3C	8	X2	B	252	81	4A	8	X10	B	58	66	7D	18
L46	B	283	56	3C	10	X3	B	260	46	5D	8	X11	B	71	28	6B	18
L47	B	270	56	3C	10	X3	B	260	46	5D	8	X12	B	219	10	3B	9
L48	B	294	56	4C	10	X3	B	260	46	5D	8	X15	B	235	10	3B	9
R89	B	255	69	5B	8	X4	B	299	39	5D	10	X15	B	235	10	3B	9
R109	B	263	64	4A	8	X5	B	290	73	4A	10	X15	B	235	10	3B	9

Nicht-Service-Relevante Bauteile / Non-Service-Relevant Components

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C1	A	43	39	5C	17	C30	A	267	57	2D	10	C59	B	151	93	7E	3
C2	A	81	39	5C	18	C31	A	277	52	3C	10	C60	B	79	109	4E	16
C3	A	243	40	6C	8	C32	B	279	51	4D	10	C61	B	149	93	8E	3
C4	A	281	39	6C	10	C33	B	53	63	8B	18	C62	A	58	139	5E	16
C5	B	29	42	4C	17	C34	B	29	36	4C	17	C63	B	57	116	6E	16
C6	B	24	64	6C	17	C35	B	67	36	4C	18	C64	A	284	116	1E	11
C7	B	67	42	4C	18	C36	B	253	50	4D	8	C65	A	301	104	2E	11
C8	B	60	63	6C	18	C37	B	291	52	4D	10	C66	A	249	110	3E	11
C9	A	252	55	4C	8	C38	A	203	16	4D	9	C67	A	268	116	3E	11
C10	B	253	52	4D	8	C39	A	217	10	4C	9	C68	A	222	110	4E	11
C11	A	291	55	4C	10	C40	B	17	115	2F	15	C69	B	238	105	5E	11
C12	B	291	50	4D	10	C41	B	40	115	3F	15	C70	B	214	88	5E	11
C13	B	235	86	9B	8	C42	A	103	106	3F	15	C71	B	221	94	6E	11
C14	B	39	67	8B	17	C43	A	129	109	4F	15	C72	A	173	142	1E	12
C15	B	55	63	8B	18	C44	A	70	116	5F	15	C73	A	28	70	6C	17
C16	B	240	85	7A	8	C45	A	59	128	6E	16	C74	A	169	130	1E	12
C17	B	271	86	9A	10	C46	B	117	139	7E	16	C75	B	32	74	8E	17
C18	B	12	43	2C	17	C47	B	117	133	8E	16	C76	A	172	127	1E	12
C19	B	35	43	4C	17	C48	A	112	120	8E	16	C77	A	167	110	1E	12
C20	B	32	43	3C	17	C49	B	122	105	1E	16	C78	B	12	67	7E	17
C21	B	36	66	8B	17	C50	A	44	130	11E	2	C79	B	168	142	4E	12
C22	B	51	43	2C	18	C51	A	112	136	1E	16	C80	A	182	142	4E	12
C23	B	70	43	3C	18	C52	A	44	135	11E	2	C81	A	98	136	4F	12
C24	B	74	43	4C	18	C53	B	117	75	7E	3	C82	A	195	137	4E	12
C25	B	12	61	6E	17	C54	A	82	125	1E	16	C83	B	32	82	7E	17
C26	A	229	57	2D	8	C55	B	84	142	1E	16	C84	A	23	70	6D	17
C27	A	239	52	3C	8	C56	A	108	130	4E	16	C85	A	141	119	5E	12
C28	B	241	51	4D	8	C57	B	82	139	4E	16	C86	A	143	138	6E	12
C29	B	17	60	6E	17	C58	B	112	139	4F	16	C87	A	143	129	6E	12

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	02	26.09.96	EE FADING_SIMULATOR *	1085.4060.01 XY	1+

Part	Side	X	Y	Sqr	Pg
C88	B	199	139	7E	12
C89	A	202	127	8E	12
C90	A	201	117	8E	12
C91	B	13	79	8E	17
C92	A	222	130	5E	14
C93	A	224	140	6E	14
C94	B	221	113	6E	14
C95	B	281	124	7E	14
C96	A	281	137	8E	14
C97	A	281	110	8E	14
C98	A	225	130	1E	14
C99	A	32	68	7E	17
C100	B	244	140	1E	14
C101	B	13	75	8E	17
C102	B	281	138	1E	14
C103	A	228	133	1E	14
C104	A	228	82	7A	8
C105	B	263	143	4E	14
C106	B	248	142	4E	14
C107	B	281	141	4F	14
C108	A	246	113	3E	14
C109	B	276	83	8A	10
C110	A	148	63	3C	9
C111	B	195	56	6E	9
C112	A	208	14	4E	9
C113	A	196	50	7E	9
C114	A	220	14	5E	9
C115	B	223	28	3B	9
C116	A	40	80	7E	17
C117	B	233	91	2A	8
C118	B	217	105	10A	8
C119	A	131	49	9E	3
C120	B	44	67	5E	17
C121	B	141	47	9E	3
C122	B	124	104	6E	3
C123	B	114	90	6E	3
C124	B	39	64	5F	17
C125	B	124	94	5E	3
C126	A	150	81	2E	4
C127	A	150	66	3E	4
C128	A	118	64	4E	4
C129	A	131	61	4E	4
C130	A	136	79	5E	4
C131	A	118	48	6E	4
C132	A	168	62	6E	4
C133	A	40	34	4E	17
C134	A	28	26	3E	17
C135	A	15	34	3E	17
C137	A	41	41	4E	17
C138	A	35	20	3E	17
C139	A	18	20	3E	17
C141	A	286	79	7A	10
C142	B	229	83	9B	10
C143	A	44	75	9B	17
C144	A	28	100	11D	17
C145	A	12	100	12D	17
C146	B	70	69	7E	18
C147	B	70	82	7E	18
C148	B	51	75	8E	18
C149	A	66	71	6C	18
C150	B	15	43	2C	17
C151	A	19	43	3C	17
C152	B	20	43	3C	17
C153	B	58	60	5E	18
C154	B	50	66	5F	18
C155	A	70	69	7E	18
C156	B	51	79	8E	18
C157	B	70	74	7E	18
C158	A	154	94	7E	4
C159	A	118	79	8E	4
C160	A	166	48	8E	4
C161	B	197	74	2E	4
C162	A	180	62	1E	4
C163	A	213	81	4E	5
C164	A	165	81	4E	5
C165	A	61	70	6D	18
C166	A	210	77	3E	5
C167	A	180	51	3E	5
C168	A	166	92	2E	5
C169	B	140	106	2E	5
C170	B	90	87	1E	5
C171	B	202	70	5E	5
C172	A	72	60	9B	18
C173	B	276	90	9A	10
C174	A	66	100	11D	18
C175	A	100	46	2C	3
C176	A	49	100	11D	18
C177	A	79	41	2E	18
C178	A	73	20	3E	18
C180	A	56	20	3E	18
C181	A	78	34	2E	18
C182	A	66	26	3E	18
C184	A	54	34	3E	18
C185	B	73	71	5F	18
C186	B	79	68	5E	18
C187	A	258	88	3A	8
C188	A	255	94	3A	8
C189	A	250	90	3B	8
C190	A	236	90	8A	8
C191	A	35	43	3C	17
C192	A	243	74	8B	8
C193	A	240	87	8B	8
C194	A	228	85	8B	8
C195	A	256	29	6E	8
C196	B	249	37	5E	8
C197	B	245	46	5E	8
C198	B	254	39	5D	8
C199	A	247	64	8B	8
C200	A	22	78	6B	17
C201	A	288	90	3B	10
C202	A	293	29	6E	10
C203	B	287	37	5E	10
C204	A	297	77	7B	10
C205	A	296	88	3A	10
C206	A	293	94	4A	10
C207	A	18	31	4B	17
C208	A	281	87	10B	10
C209	B	292	39	5D	10
C210	B	283	46	5E	10
C211	A	278	83	10B	10
C212	A	294	75	8B	10
C213	A	59	79	6B	18
C214	B	54	43	2C	18
C215	B	227	51	2C	8
C216	B	265	51	2C	10
C217	B	257	43	5C	8
C218	B	295	43	5C	10
C219	A	15	45	2C	17
C220	A	57	43	3C	18
C221	B	239	57	3D	8
C222	B	277	56	3D	10
C223	B	43	11	2E	17
C224	B	43	83	8A	17
C225	B	58	43	3C	18
C226	A	73	43	4C	18
C227	A	240	58	3D	8
C228	A	242	52	4D	8
C229	A	278	58	3D	10
C230	A	280	52	4D	10
C231	B	41	60	2E	17
C232	B	37	83	9B	17
C233	B	43	27	2D	17
C234	A	257	64	4A	8
C235	A	54	45	2C	18
C236	A	56	31	4B	18
C237	A	259	76	7B	8
C238	A	229	55	2D	8
C239	A	267	55	2D	10
C240	A	158	20	2E	2
C241	A	256	75	7B	8
C242	A	144	20	2E	2
C243	A	123	19	2F	2
C244	B	190	26	3F	2
C245	A	102	20	2F	2
C246	A	28	60	3F	17
C247	B	21	68	6D	17
C248	A	285	64	7B	10
C249	A	281	74	7B	10
C250	A	296	64	4A	10
C251	B	13	33	2C	17
C252	B	51	33	3C	18
C253	A	233	72	3C	8
C254	A	26	136	10E	2
C255	A	40	135	11E	2
C256	B	68	63	9B	18

ROHDE & SCHWARZ	ÄI	Datum / Date	XY-Liste für / XY-list for	Sach-Nummer / Stock-Nr	Blatt / Page
	02	26.09.96	EE FADING_SIMULATOR *	1085.4060.01 XY	2+

Part	Side	X	Y	Sqr	Pg
C257	B	82	11	2E	18
C258	A	73	71	7B	18
C259	B	81	27	2D	18
C260	A	271	72	3C	10
C261	A	254	68	6B	8
C262	B	79	63	3F	18
C263	B	79	57	2E	18
C264	A	238	44	2D	8
C265	B	234	96	2B	8
C266	A	248	79	8A	8
C267	A	292	68	6B	10
C268	A	243	69	4B	8
C270	B	254	43	5D	8
C271	B	234	78	2B	8
C272	B	292	43	5D	10
C275	B	273	78	2B	10
C276	A	276	44	2D	10
C277	B	269	96	2A	10
C279	A	281	69	4B	10
C281	B	59	68	6D	18
C282	A	247	91	3B	8
C283	A	255	81	4A	8
C284	B	254	85	3B	8
C285	B	292	85	3B	10
C286	A	285	91	3B	10
C287	A	293	81	4A	10
C292	A	197	90	6E	5
C293	B	210	63	6E	6
C294	A	118	95	7E	5
C295	A	137	94	7E	5
C296	B	136	90	8E	5
C297	A	184	91	6E	5
C298	B	138	59	1F	3
C299	B	136	72	1E	3
C300	B	154	49	1E	3
C301	B	120	75	1E	3
C302	B	116	76	1E	3
C303	B	100	81	1E	3
C304	B	98	64	1E	3
C305	B	99	59	1E	3
C306	B	100	53	3F	3
C307	B	104	47	3E	3
C308	B	117	42	3E	3
C309	B	122	42	3E	3
C310	B	130	42	3E	3
C311	B	136	50	3E	3
C312	B	136	56	3E	3
C313	B	114	42	3E	3
C314	B	178	81	3E	6
C315	B	175	101	3E	6
C316	B	178	93	3E	6
C317	B	184	17	3E	6
C318	B	180	72	3F	6
C319	B	181	87	1E	6
C320	A	167	65	3F	6
C321	B	155	100	1E	6
C322	B	164	101	1E	6
C323	B	151	81	1E	6
C324	B	152	87	3E	6
C325	B	173	17	4E	6
C327	B	221	105	10B	8
C328	B	197	54	6E	6
C329	B	178	53	7E	6
C330	B	165	73	8E	6
C331	A	178	77	8E	6
C332	A	168	81	5B	6
C333	B	198	86	2E	7
C334	B	180	100	2E	7
C335	A	214	45	3E	7
C336	B	225	96	3D	7
C337	B	213	107	3D	7
C338	A	226	110	3D	7
C339	A	195	110	4D	7
D1	B	200	76	5E	11
D1	B	200	76	5C	11
D2	B	211	99	5D	11
D2	B	211	99	5E	11
D3	B	84	105	1F	16
D3	B	84	105	4A	16
D3	B	84	105	5A	15
D4	B	249	110	1F	12
D4	B	249	110	4A	12
D4	B	249	110	4A	11
D5	B	168	109	1F	14
D5	B	168	109	4A	14
D5	B	168	109	4A	13
D6	A	61	116	1C	15
D6	A	61	116	1D	15
D6	A	61	116	4F	15
D6	A	61	116	5C	3
D6	A	61	116	5B	3
D7	A	205	115	6A	11
D7	A	205	115	4E	11
D8	A	221	115	4E	11
D8	A	221	115	7A	11
D9	A	271	115	7C	11
D9	A	271	115	1E	11
D10	A	254	115	6B	11
D10	A	254	115	3E	11
D11	A	237	115	7B	11
D11	A	237	115	2E	11
D12	A	288	115	7D	11
D12	A	288	115	2E	11
D13	B	262	98	2A	8
D14	B	300	98	2A	10
D15	A	94	112	2C	15
D15	A	94	112	3F	15
D16	A	119	112	4F	15
D16	A	119	112	2C	15
D17	B	18	70	7E	17
D17	B	18	70	6C	17
D18	B	56	70	6C	18
D18	B	56	70	7F	18
D19	B	60	111	3C	16
D19	B	60	111	5E	16
D20	B	60	122	3A	16
D20	B	60	122	6E	16
D21	B	119	134	7E	16
D21	B	119	134	6A	16
D22	B	119	122	7E	16
D22	B	119	122	6B	16
D23	B	119	111	8E	16
D23	B	119	111	6C	16
D24	B	60	134	5E	16
D24	B	60	134	3B	16
D25	B	283	117	7E	12
D25	B	283	117	6B	12
D26	B	283	128	6E	12
D26	B	283	128	6A	12
D27	B	224	110	3A	12
D27	B	224	110	5E	12
D28	B	224	122	3B	12
D28	B	224	122	6E	12
D29	B	224	134	3C	12
D29	B	224	134	5E	12
D30	B	283	105	8E	12
D30	B	283	105	6C	12
D31	B	142	122	3A	14
D31	B	142	122	5E	14
D32	B	142	111	3B	14
D32	B	142	111	6E	14
D33	B	142	134	3C	14
D33	B	142	134	5E	14
D34	B	202	122	7E	14
D34	B	202	122	6A	14
D35	B	202	134	7E	14
D35	B	202	134	6B	14
D36	B	202	110	8E	14
D36	B	202	110	6C	14
D37	A	187	64	6E	9
D37	A	187	64	2C	9
D37	A	187	64	2E	9
D38	B	212	16	4B	9
D38	B	212	16	4E	9
D39	B	20	106	2A	15
D39	B	20	106	2F	15
D40	B	42	106	2B	15
D40	B	42	106	2F	15
D41	B	11	92	10D	17
D41	B	11	92	10B	17
D42	B	26	92	11D	17
D42	B	26	92	10C	17
D43	B	50	92	10D	18
D43	B	50	92	10B	18
D44	B	65	92	10C	18

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Part	Side	X	Y	Sqr	Pg
D44	B	65	92	11D	18
D45	B	200	44	5B	9
D45	B	200	44	6E	9
D46	A	217	17	4E	9
D46	A	217	17	3C	9
D47	B	183	62	7E	6
D47	B	183	62	7C	6
D48	A	105	79	3D	5
D48	A	105	79	6E	5
D49	B	103	92	5A	3
D49	B	103	92	5E	3
D50	B	103	78	7A	3
D50	B	103	78	6E	3
D51	A	171	51	2B	5
D51	A	171	51	3E	5
D51	A	171	51	2A	5
D52	A	122	50	3B	5
D52	A	122	50	2A	3
D52	A	122	50	4F	3
D52	A	122	50	4B	3
D52	A	122	50	8E	3
D53	A	156	80	4E	5
D53	A	156	80	4C	5
D53	A	156	80	3C	5
D53	A	156	80	4A	5
D53	A	156	80	3C	5
D54	B	204	65	6B	5
D54	B	204	65	7C	5
D54	B	204	65	7D	5
D54	B	204	65	5E	5
D54	B	204	65	7B	5
D55	A	177	18	2B	6
D55	A	177	18	2B	6
D55	A	177	18	3E	6
D55	A	177	18	2A	6
D55	A	177	18	2B	6
D56	B	89	91	1E	5
D56	B	89	91	5A	5
D57	A	109	95	1F	4
D57	A	109	95	3E	4
D57	A	109	95	2A	4
D58	A	187	90	6B	5
D58	A	187	90	5E	5
D58	A	187	90	7B	5
D59	A	201	77	3E	5
D59	A	201	77	2A	5
D59	A	201	77	3D	9
D60	B	156	77	10A	6
D60	B	156	77	1F	6
D61	A	171	65	1E	4
D61	A	171	65	6C	4
D62	A	187	76	1E	4
D62	A	187	76	7C	4
D63	A	135	50	6D	5
D63	A	135	50	2C	5
D63	A	135	50	4E	3
D63	A	135	50	4E	3
D63	A	135	50	9E	3
D64	A	170	93	6B	5
D64	A	170	93	6E	5
D64	A	170	93	4B	5
D64	A	170	93	5C	5
D64	A	170	93	4F	5
D65	A	201	64	6F	6
D65	A	201	64	5E	6
D65	A	201	64	8C	6
D65	A	201	64	6F	6
D65	A	201	64	9C	6
D66	B	90	80	7E	5
D66	B	90	80	4C	5
D66	B	90	80	7D	5
D66	B	90	80	1E	5
D66	B	90	80	7C	5
D67	A	157	93	3C	5
D67	A	157	93	2E	5
D67	A	157	93	4B	5
D67	A	157	93	4A	5
D67	A	157	93	7D	5
D68	A	201	90	4E	5
D68	A	201	90	5B	5
D69	A	124	95	7E	5
D69	A	124	95	7D	5
D70	A	200	46	8E	5
D70	A	200	46	5D	5
D71	A	105	64	3E	4
D71	A	105	64	4A	4
D72	A	122	64	4E	4
D72	A	122	64	6A	4
D73	A	122	79	5E	4
D73	A	122	79	7A	4
D74	A	154	64	6E	4
D74	A	154	64	7B	4
D75	A	89	79	7E	4
D75	A	89	79	4B	4
D76	A	140	95	7E	4
D76	A	140	95	6B	4
D77	A	153	49	8E	4
D77	A	153	49	3B	4
D78	A	105	48	5E	4
D78	A	105	48	3A	4
D79	A	142	81	2C	7
D79	A	142	81	5C	6
D79	A	142	81	2F	4
D79	A	142	81	2B	4
D79	A	142	81	2E	4
D80	B	157	62	3F	6
D80	B	157	62	4A	6
D81	B	133	58	3A	3
D81	B	133	58	1F	3
D82	A	187	50	6E	6
D82	A	187	50	6B	6
D83	A	166	18	4F	6
D83	A	166	18	4F	6
D83	A	166	18	9A	6
D83	A	166	18	9A	6
D83	A	166	18	4E	6
D84	A	141	67	2C	7
D84	A	141	67	2C	7
D84	A	141	67	2B	7
D84	A	141	67	2B	7
D84	A	141	67	2E	7
D85	B	128	92	7C	3
D85	B	128	92	7E	3
D86	B	128	78	5C	3
D86	B	128	78	8E	3
D87	B	181	44	7E	6
D87	B	181	44	7B	6
D88	B	183	76	3C	7
D88	B	183	76	1E	7
D89	B	183	90	2E	7
D89	B	183	90	3B	7
D91	A	208	102	3E	7
D91	A	208	102	5B	7
D92	A	171	81	2B	15
D92	A	171	81	7C	6
D92	A	171	81	7F	6
D92	A	171	81	6A	6
D92	A	171	81	8E	6
D92	A	171	81	7B	6
D92	A	171	81	6B	6
G1	B	149	66	3C	9
G2	B	216	22	3B	9
K1	B	31	25	2A	17
K1	B	31	25	2A	17
K1	B	31	25	3D	17
K2	B	70	25	2A	18
K2	B	70	25	2A	18
K2	B	70	25	3D	18
K3	B	231	21	3D	8
K3	B	231	21	3D	8
K3	B	231	21	1C	8
K4	B	234	33	7C	8
K4	B	234	33	3E	8
K4	B	234	33	7C	8
K5	B	245	21	3E	8
K5	B	245	21	3E	8
K5	B	245	21	7C	8
K6	B	269	20	3D	10
K6	B	269	20	3D	10
K6	B	269	20	1C	10
K7	B	272	33	3E	10
K7	B	272	33	7C	10
K7	B	272	33	7C	10
K8	B	283	20	3E	10
K8	B	283	20	3E	10

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Part	Side	X	Y	Sqr	Pg
K8	B	283	20	7C	10
L1	B	12	46	2C	17
L2	B	50	46	2C	18
L3	B	228	57	2C	8
L4	B	266	57	2C	10
L5	B	28	59	6C	17
L6	A	38	75	9A	17
L7	A	79	61	2F	18
L8	B	64	59	6C	18
L9	A	79	57	9A	18
L10	B	231	107	10A	8
L11	B	259	29	5D	8
L12	B	298	29	5D	10
L13	B	163	21	2E	2
L14	B	27	45	3C	17
L15	A	40	44	4D	17
L16	B	12	38	2C	17
L17	B	11	30	3C	17
L18	A	42	60	2F	17
L20	B	50	30	3C	18
L21	B	50	38	2C	18
L22	B	240	74	3C	8
L23	B	231	64	2C	8
L24	B	65	45	3C	18
L25	B	278	74	3C	10
L26	A	237	64	3B	8
L27	A	233	94	8A	8
L28	B	269	64	2C	10
L29	A	242	46	5D	8
L30	A	238	55	3C	8
L31	A	276	64	3B	10
L35	A	280	46	5D	10
L36	A	277	55	3C	10
L49	B	149	22	2E	2
L50	B	132	23	2E	2
L51	B	118	22	2F	2
L52	B	103	22	2F	2
L53	B	259	36	5C	8
L54	B	298	36	5C	10
L55	A	229	105	2D	7
L56	A	198	106	4E	7
N1	A	25	19	3E	17
N1	A	25	19	3B	17
N2	B	41	35	4E	17
N2	B	41	35	5C	17
N3	A	12	23	3E	17
N3	A	12	23	5B	17
N4	B	247	71	6B	8
N4	B	247	71	7B	8
N5	A	13	59	5E	17
N6	B	285	71	6B	10
N6	B	285	71	7B	10
N7	A	64	19	3B	18
N7	A	64	19	3E	18
N8	B	79	35	5C	18

Part	Side	X	Y	Sqr	Pg
N8	B	79	35	2E	18
N9	A	50	23	5B	18
N9	A	50	23	3E	18
N10	B	261	77	7B	8
N10	B	261	77	5B	8
N11	A	248	32	5E	8
N11	A	248	32	6C	8
N12	B	299	77	7B	10
N12	B	299	77	5B	10
N13	A	286	32	5E	10
N13	A	286	32	6C	10
N14	B	18	128	10E	2
N15	A	36	64	6A	17
N15	A	36	64	5E	17
N15	A	36	64	8B	17
N16	A	51	57	5E	18
N16	A	51	57	8B	18
N16	A	51	57	7A	18
N17	A	231	83	7A	8
N17	A	231	83	9A	8
N17	A	231	83	8B	8
N19	A	73	64	7A	18
N19	A	73	64	5E	18
N23	A	248	40	4E	8
N23	A	248	40	7D	8
N24	A	269	83	8A	10
N24	A	269	83	10B	10
N25	A	286	40	5E	10
N25	A	286	40	6D	10
R1	A	18	82	6B	17
R2	A	57	82	6B	18
R3	A	98	100	7B	15
R4	A	108	106	4A	15
R5	A	113	110	4A	15
R6	A	135	113	4A	15
R7	A	142	109	4B	15
R8	B	112	105	4B	15
R9	A	115	109	7D	15
R10	A	218	117	5B	11
R11	A	268	131	2B	11
R12	A	289	108	2A	11
R13	A	292	110	2B	11
R14	A	224	100	2A	11
R15	A	222	96	2A	11
R16	A	261	131	5B	11
R17	A	266	136	5D	11
R18	A	281	98	6B	13
R19	A	284	109	3B	13
R20	A	286	109	5D	13
R21	A	187	119	3A	13
R22	A	191	122	3B	13
R23	A	191	110	3A	13
R24	A	187	112	3A	13
R25	B	236	99	9A	8
R26	A	213	94	9B	8

Part	Side	X	Y	Sqr	Pg
R27	A	196	63	2E	9
R28	B	203	13	4B	9
R29	A	28	16	3B	17
R30	A	252	84	3A	8
R31	A	290	84	3A	10
R32	A	26	14	3B	17
R33	B	13	24	5B	17
R34	B	11	23	4B	17
R35	B	21	62	7D	17
R36	B	57	62	7D	18
R37	A	19	76	6B	17
R38	A	21	76	7B	17
R39	B	42	63	6A	17
R40	B	11	28	5B	17
R41	B	56	57	7A	18
R42	A	65	16	3B	18
R43	A	63	14	2B	18
R44	B	278	93	9B	10
R45	A	59	76	7B	18
R46	B	50	23	4B	18
R47	A	57	76	6B	18
R48	A	32	10	2B	17
R49	B	51	24	5B	18
R50	A	259	73	5A	8
R51	A	261	72	4B	8
R52	A	297	73	5A	10
R53	A	299	72	4B	10
R54	B	37	28	4B	17
R55	A	22	18	3B	17
R56	A	70	10	2B	18
R57	B	43	33	5D	17
R58	A	32	14	2A	17
R59	B	81	33	5D	18
R60	B	75	28	3B	18
R61	A	61	18	3B	18
R62	A	256	78	5B	8
R63	A	250	30	6C	8
R64	A	295	78	5B	10
R65	A	287	29	6C	10
R66	B	243	88	8A	8
R67	B	281	90	9A	10
R68	A	257	46	5C	8
R69	A	296	46	5C	10
R70	A	203	22	4D	9
R71	A	214	14	4C	9
R72	B	40	69	8B	17
R73	A	260	64	4B	9
R74	A	22	23	3D	17
R75	B	56	61	8B	18
R76	A	252	90	4B	8
R77	B	236	46	7C	8
R78	B	242	85	8A	8
R79	A	280	96	9A	10
R80	A	291	90	4B	10
R81	B	275	45	7C	10

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Part	Side	X	Y	Sqr	Pg
R82	A	34	24	3D	17
R83	B	23	27	5B	17
R84	B	25	27	5B	17
R85	A	70	14	2B	18
R86	A	254	71	5B	8
R87	B	39	70	9B	17
R88	A	291	71	6B	10
R90	B	39	44	4D	17
R91	A	45	37	4E	17
R92	B	63	27	5B	18
R93	B	62	27	5B	18
R94	A	239	35	6C	8
R95	A	239	37	6C	8
R96	A	254	14	6C	8
R97	A	254	17	6C	8
R98	A	234	31	1C	8
R99	A	237	31	1C	8
R100	A	278	37	6C	10
R101	A	272	31	1C	10
R102	A	275	31	1C	10
R103	A	291	17	6C	10
R104	A	291	15	6C	10
R105	A	278	34	6C	10
R106	B	36	71	8B	17
R107	A	29	39	5C	17
R108	A	54	64	8B	18
R111	B	228	87	9B	8
R112	A	22	21	3E	17
R113	A	68	39	5C	18
R114	B	55	66	8B	18
R115	A	239	21	2C	8
R116	A	237	77	7A	8
R117	A	244	42	6C	8
R118	A	237	21	2C	8
R119	A	273	81	8A	10
R120	A	282	42	6C	10
R121	B	253	48	4C	8
R122	B	252	46	5C	8
R123	B	290	47	5C	10
R124	B	291	48	4C	10
R125	A	118	106	4A	15
R126	A	145	113	4B	15
R127	A	289	105	2B	11
R128	A	219	96	2A	11
R129	A	187	107	3A	13
R130	A	187	117	2B	13
R131	A	194	44	2D	6
R132	A	13	32	3E	17
R134	B	11	86	6C	17
R135	A	20	100	9B	17
R136	B	32	11	2B	17
R137	B	43	69	5E	17
R138	B	33	65	5F	17
R139	B	15	64	5E	17
R140	B	50	86	6C	18
R141	A	62	100	10B	18
R142	B	194	17	2D	6
R143	A	245	94	2B	8
R144	B	61	58	5E	18
R145	A	275	21	2C	10
R146	A	277	21	2C	10
R147	B	82	70	5E	18
R148	A	283	94	3B	10
R149	A	11	95	8B	17
R150	B	70	12	2B	18
R151	B	250	75	4B	8
R152	B	288	75	4B	10
R153	A	14	95	8C	17
R154	A	16	95	8C	17
R155	A	18	95	8C	17
R156	A	20	95	8C	17
R157	A	23	95	8C	17
R158	A	25	95	8C	17
R159	A	27	95	8C	17
R160	A	29	95	8D	17
R161	A	31	95	8D	17
R162	A	34	95	8D	17
R163	A	36	95	8D	17
R164	A	105	45	2C	3
R165	A	60	95	8C	18
R166	A	62	95	8C	18
R167	A	64	95	8D	18
R168	A	67	95	8D	18
R169	A	69	95	8D	18
R170	A	71	95	8D	18
R171	A	58	95	8C	18
R172	A	56	95	8C	18
R173	A	53	95	8C	18
R174	A	51	95	8C	18
R175	A	49	95	8C	18
R176	A	47	95	8B	18
R177	A	25	69	6D	17
R178	B	79	42	5C	18
R179	A	21	28	4C	17
R180	B	51	61	5F	18
R181	B	75	66	8A	18
R182	A	42	97	10C	17
R183	A	39	97	10D	17
R184	A	63	69	6D	18
R185	B	43	42	5C	17
R186	A	59	28	4C	18
R187	A	242	64	6B	8
R188	A	280	64	6B	10
R189	B	75	69	5F	18
R190	B	161	75	10E	6
R191	A	86	129	3B	15
R192	A	97	129	4B	15
R193	A	97	127	3B	15
R194	A	89	121	4B	15
R195	A	75	123	3B	15
R196	A	89	124	4C	15
R197	A	76	121	3C	15
R198	A	89	119	4C	15
R199	A	86	126	3C	15
R200	A	76	118	4C	15
R201	A	76	116	3C	15
R202	A	104	127	4C	15
R203	B	79	112	3C	15
R204	A	88	116	4D	15
R205	A	88	114	3D	15
R206	A	104	129	4D	15
R207	A	76	113	3D	15
R208	B	37	116	1B	15
R209	B	34	116	1B	15
R210	B	13	26	4B	17
R211	A	39	37	5C	17
R212	A	12	104	11B	17
R213	A	15	104	11C	17
R214	A	17	104	11C	17
R215	A	20	104	11C	17
R216	B	160	75	10E	6
R217	B	158	74	10E	6
R218	A	22	104	11C	17
R219	A	25	104	11C	17
R220	A	29	104	11C	17
R221	B	81	42	5C	18
R222	A	77	96	10C	18
R223	A	74	96	10D	18
R224	A	211	68	8E	8
R225	A	239	40	7E	8
R226	B	251	39	7D	8
R227	A	252	29	8D	8
R228	B	214	70	8E	10
R229	A	277	40	7E	10
R230	B	289	39	7D	10
R231	A	291	29	8D	10
R232	A	31	104	11C	17
R233	B	51	26	4B	18
R234	B	247	34	6C	8
R235	B	252	34	6C	8
R236	A	242	24	5C	8
R237	A	245	29	6C	8
R238	A	280	24	5C	10
R239	B	291	34	6C	10
R240	B	285	34	6C	10
R241	A	283	29	6C	10
R242	A	263	66	4A	8
R243	A	301	66	4A	10
R244	A	34	104	11C	17
R245	A	77	37	5C	18
R246	A	245	40	6C	8
R247	A	283	39	6C	10
R248	B	206	56	6C	9
R249	B	204	56	6C	9
R250	B	201	56	6C	9

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Part	Side	X	Y	Sqr	Pg
R251	B	203	56	6C	9
R252	B	138	72	3C	9
R253	B	217	11	5C	9
R254	A	205	16	5D	9
R255	A	212	27	4C	9
R256	A	210	24	4D	9
R257	B	208	58	6C	9
R258	B	210	12	5B	9
R259	B	156	46	6B	9
R260	B	197	45	6B	9
R261	B	196	47	6B	9
R262	B	198	50	6B	9
R263	B	209	56	6B	9
R264	B	211	12	5B	9
R265	A	298	64	5B	9
R266	B	215	28	5C	9
R267	A	36	104	11D	17
R268	A	39	104	11D	17
R269	A	41	104	11D	17
R271	A	51	32	4E	18
R273	A	61	21	3E	18
R274	A	83	37	3E	18
R275	A	61	23	3D	18
R277	A	73	24	3D	18
R278	B	77	44	2D	18
R279	A	68	105	11C	18
R280	A	70	105	11D	18
R281	A	73	105	11D	18
R282	A	58	105	11C	18
R283	A	60	105	11C	18
R284	A	63	105	11C	18
R285	A	65	105	11C	18
R286	A	55	105	11C	18
R287	A	53	105	11C	18
R288	A	48	105	11C	18
R289	A	46	105	11B	18
R290	A	76	105	11D	18
R291	B	256	41	5C	8
R292	B	295	41	5C	10
R293	B	247	38	5E	8
R294	A	257	35	5D	8
R296	B	22	60	7A	17
R297	B	138	45	2A	3
R298	B	119	40	2A	3
R299	B	138	48	3A	3
R301	B	158	51	2B	4
R302	B	153	54	2C	4
R303	B	153	56	2C	4
R304	B	153	57	2C	4
R305	B	154	59	2C	4
R306	B	154	60	2C	4
R307	B	152	96	10E	6
R309	B	50	28	5B	18
R310	B	234	82	6A	8
R311	B	24	59	7B	17
R312	B	31	66	7B	17
R313	B	138	52	2A	3
R314	B	142	56	3A	3
R315	B	141	51	3A	3
R316	A	187	46	8C	5
R317	B	100	43	8B	3
R318	B	100	45	8B	3
R319	B	99	46	8B	3
R320	B	99	48	8B	3
R321	B	99	50	8C	3
R322	B	100	51	8C	3
R323	B	100	54	8C	3
R324	B	100	56	8C	3
R325	B	90	75	8C	3
R326	B	100	57	8C	3
R327	B	100	61	8C	3
R328	B	92	76	8C	3
R329	B	100	62	8C	3
R330	B	95	76	8C	3
R331	B	100	65	8D	3
R332	B	100	67	8D	3
R333	B	100	69	9B	3
R334	B	100	70	9B	3
R335	B	100	72	9B	3
R336	B	95	74	9B	3
R337	B	105	75	9C	3
R338	B	104	75	9C	3
R339	B	102	75	9C	3
R340	B	107	75	9C	3
R341	B	125	89	9D	3
R342	B	119	74	9D	3
R343	B	95	77	9C	3
R344	B	100	73	9C	3
R345	B	114	75	9C	3
R346	B	112	75	9C	3
R347	B	111	75	9C	3
R348	B	109	75	9C	3
R349	B	122	74	1C	3
R350	B	123	74	1C	3
R351	B	125	74	1C	3
R352	B	127	75	1C	3
R353	B	128	75	1D	3
R354	B	130	75	1D	3
R355	B	132	75	1D	3
R356	B	142	60	1D	3
R357	B	136	69	1D	3
R358	A	123	61	1D	3
R359	B	134	75	1D	3
R360	B	136	74	1D	3
R361	B	145	61	2D	3
R362	B	136	58	2D	3
R363	B	136	55	2D	3
R364	B	136	53	2D	3
R365	B	150	60	2D	3
R366	B	149	44	2D	3
R367	B	153	63	2D	3
R368	B	136	61	2D	3
R369	B	136	63	2C	3
R370	B	136	64	2C	3
R371	B	137	66	2C	3
R372	B	137	67	2C	3
R373	B	116	42	8D	3
R374	B	102	46	9D	3
R375	A	190	20	2B	6
R376	A	185	22	2B	6
R377	B	54	59	7B	18
R378	B	163	50	3A	6
R379	B	176	55	3A	6
R380	A	123	44	2C	6
R381	B	272	83	8A	10
R382	B	102	42	4B	3
R383	A	119	58	4E	3
R384	B	23	64	7C	17
R385	B	161	50	5B	4
R386	B	151	46	2A	4
R387	B	138	76	1E	4
R388	B	162	17	9A	6
R389	B	163	73	3B	6
R390	B	172	74	5D	4
R391	B	179	82	8B	4
R392	B	174	73	8B	4
R393	A	105	102	8B	4
R394	B	170	73	8B	4
R395	B	150	91	2C	5
R396	B	152	90	4C	5
R397	A	173	48	2B	5
R398	B	77	106	4A	5
R399	B	20	59	7B	17
R400	B	151	84	6A	5
R401	B	23	33	4B	17
R402	B	154	69	4A	6
R403	A	196	70	2D	9
R404	B	58	64	7C	18
R405	A	183	97	4F	5
R406	A	101	100	4D	5
R407	A	110	45	1B	3
R408	B	182	17	2A	6
R409	A	107	43	2A	6
R410	A	110	24	2A	6
R411	A	153	42	3B	6
R412	A	151	24	2A	6
R413	A	178	41	3B	6
R414	A	191	22	2B	6
R415	A	174	42	3B	6
R416	A	188	22	2B	6
R417	B	174	47	2C	6
R418	A	116	24	2C	6
R419	A	121	24	2C	6
R420	B	132	42	10A	3
R421	A	136	27	11A	3

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Part	Side	X	Y	Sqr	Pg
R422	B	136	43	10A	3
R423	A	141	27	11A	3
R424	B	124	40	10B	3
R425	A	126	27	11B	3
R426	A	156	27	11B	3
R427	B	155	44	10B	3
R428	A	131	27	11B	3
R429	B	126	42	10B	3
R430	A	146	27	11C	3
R431	B	144	43	10C	3
R432	A	185	42	4E	2
R433	A	187	17	3E	2
R434	B	155	54	4A	6
R435	A	182	51	6B	6
R436	A	30	14	2B	17
R437	B	193	60	6D	6
R438	B	167	51	6D	6
R439	B	190	57	6D	6
R440	B	191	60	6D	6
R441	B	187	60	6D	6
R442	B	184	60	5D	6
R443	B	180	60	5D	6
R444	B	168	17	4F	6
R445	A	67	14	2B	18
R446	A	183	78	7F	6
R447	A	39	39	4C	17
R448	A	77	39	5C	18
R449	A	210	61	5F	6
R450	A	243	36	6C	8
R451	A	281	36	6C	10
R452	A	199	41	7A	6
R453	A	159	27	8A	6
R454	B	169	27	9A	6
R455	A	208	44	8A	6
R456	A	162	27	7C	7
R457	A	160	46	7C	7
R458	B	178	85	9C	6
R459	B	212	73	9D	6
R460	B	154	71	9D	6
R461	B	158	102	9C	6
R462	B	176	76	9C	6
R463	B	179	76	9D	6
R466	A	151	92	5C	6
R467	B	169	49	6C	6
R468	B	186	57	6C	6
R469	B	190	59	6C	6
R470	B	185	59	6C	6
R471	B	182	59	5C	6
R472	B	177	59	5C	6
R473	B	219	107	5C	7
R474	B	217	100	4C	7
R475	B	214	97	5C	7
R476	A	205	100	5C	7
R477	A	205	103	5C	7
R478	A	201	105	4C	7
R479	B	87	102	7A	15
R480	A	139	83	2D	7
R481	B	206	62	7D	5
R482	B	41	42	5C	17
R483	B	157	73	8A	6
R484	B	152	76	8A	6
R485	B	152	71	9B	6
R486	B	207	73	9B	6
R487	B	178	90	9B	6
R488	A	167	78	5A	6
R489	B	285	38	5E	10
R490	A	295	35	5D	10
R491	B	62	33	4B	18
R492	A	169	35	6D	9
R493	A	252	68	5A	8
R494	A	249	66	6A	8
R495	A	288	66	6A	10
R496	A	290	68	6A	10
R497	A	249	69	6B	8
R498	A	288	69	6B	10
R499	A	75	73	7A	18
R500	B	171	45	6D	9
R501	A	139	46	2D	9
R502	A	145	35	1D	9
V1	A	212	13	4C	9
V2	A	209	21	4D	9
V3	A	40	23	3D	17
V4	A	78	23	3D	18
V5	A	233	39	4E	8
V6	A	246	26	4E	8
V7	A	232	27	4D	8
V8	A	270	27	4D	10
V9	A	284	26	4E	10
V10	A	271	39	4E	10
V11	A	276	95	9A	10
V12	A	39	72	9B	17
V13	A	62	58	9B	18
V14	A	219	104	9A	8
V15	A	242	91	8A	8
V16	A	168	88	5B	6
V17	A	26	76	6B	17
V18	A	63	77	6B	18
V19	A	24	79	6B	17
V20	A	62	79	6B	18
X1	B	197	15	1D	6
X1	B	197	15	1D	6
X13	B	73	10	2B	18
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X14	B	144	58	2B	3
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1F	2
X360	B	189	11	1F	2
X360	B	189	11	1F	2
X360	B	189	11	1F	2
X360	B	189	11	1E	2
X360	B	189	11	1E	2
X360	B	189	11	1E	2
X360	B	189	11	1E	2
X360	B	189	11	1E	2
X360	B	189	11	1E	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1D	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X360	B	189	11	1B	2
X361	B	17	10	1A	2
X362	B	27	10	12A	2
X363	B	52	10	1C	2
X364	B	62	10	12A	2
X365	B	245	10	1C	2
X366	B	255	10	1A	2
X367	B	263	10	12B	2
X368	B	271	10	12A	2
X369	B	281	10	1C	2
X370	B	288	10	12C	2
X371	B	296	10	12C	2
Z1	A	50	18	1B	17
Z2	B	50	58	1E	17
Z3	B	42	92	8A	17
Z4	A	50	13	1F	17
Z5	A	94	20	2D	17

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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
Z6	A	50	79	7D	17	Z24	A	235	105	1B	8	Z42	B	136	41	10A	3
Z7	B	14	53	5B	17	Z25	A	221	43	1E	8	Z43	B	141	41	10A	3
Z8	B	105	35	2E	2	Z26	B	220	64	7E	8	Z44	A	121	42	10B	3
Z9	B	202	35	3E	2	Z27	A	266	30	7C	10	Z45	B	156	41	10B	3
Z10	B	207	35	3F	2	Z28	A	262	76	3A	10	Z46	A	126	42	10B	3
Z11	B	93	20	1B	18	Z29	A	214	53	2D	10	Z47	B	146	41	10C	3
Z12	A	94	25	2D	18	Z30	B	214	48	2D	10	Z48	B	182	35	3E	2
Z13	B	88	61	1E	18	Z31	B	214	53	2E	10	Z49	B	192	41	8A	6
Z14	B	88	56	1E	18	Z32	A	262	81	1B	10	Z50	B	197	41	8A	6
Z15	B	93	25	1F	18	Z33	A	271	105	1A	10	Z51	B	161	41	7C	7
Z16	B	52	50	5B	18	Z34	A	259	36	1E	10	Z52	A	192	35	2D	6
Z17	B	82	66	8A	18	Z35	B	220	74	7E	10	Z53	B	214	79	4E	7
Z18	B	228	38	7C	8	Z36	B	110	35	2A	6	Z54	A	43	48	1D	18
Z19	B	222	69	3A	8	Z37	B	151	35	3A	6	Z55	B	269	84	1A	8
Z20	A	214	58	2D	8	Z38	B	177	35	3B	6	Z56	A	262	69	7A	10
Z21	A	214	48	2D	8	Z39	B	171	35	3B	6	Z57	A	221	69	9B	10
Z22	B	212	41	2E	8	Z40	A	110	35	2C	6	Z58	A	171	42	6D	9
Z23	A	221	74	1A	8	Z41	A	116	35	2C	6	Z59	A	141	35	2D	9