



ROHDE & SCHWARZ

Test and Measurement
Division

Service Manual

SMY01

**9 kHz to 1040 MHz
1062.5502.11**

SMY02

**9 kHz - 2080 MHz
1062.5502.12**

SMY43

**9 kHz to 2080 MHz
1062.5502.43**

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Safety Instructions

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Safety Instructions

This unit has been designed and tested according to the standards outlined overleaf and has left the manufacturer's premises in a state fully complying with the safety standards.

In order to maintain this state and to ensure safe operation, observe the following instructions, symbols and precautions.

- 1) When the unit is to be permanently cabled, first connect protective ground conductor before making any other connections.
- 2) Built-in units should only be operated when properly fitted into the system.
- 3) For permanently cabled units without built-in fuses, automatic switches or similar protective facilities, the AC supply line shall be fitted with fuses rated to the units.
- 4) Before switching on the unit ensure that the operating voltage set at the unit matches the line voltage.
If a different operating voltage is to be set, use a fuse with appropriate rating.
- 5) Units of protection class I with disconnectible AC supply cable and plug may only be operated from a power socket with protective ground contact.
The protective ground connection should not be made ineffective by an extension cable.
Any breaking of the protective ground conductor within or outside of the unit or loosening of the protective ground connection may cause the unit to become electrically hazardous.
The protective ground conductor shall not be interrupted intentionally.
- 6) Before opening the unit, isolate it from the AC supply.
Adjustment and replacement of parts as well as maintenance and repair should be carried out only by specialists approved by R & S.
Observe safety regulations and rules for the prevention of accidents.
Use only original parts for replacing parts relevant to safety (e.g. power on/off switches, power transformers or fuses).
- 7) Also observe the additional safety instructions specified in this manual.

Explanation of Symbols Used



- Read operating manual, observe the safety symbols used



- Caution, shock hazard



- Protective ground connection



- Unit ground



- Equipotential (floating ground)



- Ground

Patent Information

This product contains technology licensed by Marconi Instruments LTD. under US patents 4609881 and 4870384 and under corresponding patents in Germany and elsewhere.



ROHDE & SCHWARZ

SERVICE INSTRUCTIONS

Output Module 2.08 GHz

1062.7005.01

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Parts list
List of coordinates
Circuit diagram
Component layout diagram

In instruments without fitted option SMY-B40, this module has the variant VAR 02.

In instruments with fitted option SMY-B40, this module has the variant VAR 03.

7.1 Function Description

The Output Module 2.08 GHz is provided with the RF signal (6 dBm to 12 dBm) in the frequency range $65 \text{ MHz} \leq f_{\text{SYN}} \leq 1040 \text{ MHz}$ by the synthesis module via the input FSYN. This RF signal is passed via an amplitude modulator and an amplitude control element to switchable harmonic filters. The output frequency range of $5 \text{ kHz} \leq f_{\text{RF}} < 65 \text{ MHz}$ is realized in the signal path via the changeover switches SWITCHB and SWITCHD by means of downconversion with a 640 MHz LO.

The doubler path can be switched on via the changeover switches SWITCHA and SWITCHC to realize the output frequency range $1040 \text{ MHz} < f_{\text{RF}} \leq 2080 \text{ MHz}$.

The module consists of the following function units:

- an AM modulator for level control and amplitude modulation in the frequency range $5 \text{ kHz} \leq f_{\text{RF}} \leq 1040 \text{ MHz}$,
- an AM modulator for level presetting (LEVEL PRESET),
- switchable harmonic filters,
- a mixer with LO, RF and IF filters,
- a level detector in the RF path preceding the mixer,
- a frequency doubler,
- an AM modulator for level control and amplitude modulation in the frequency range $1040 \text{ MHz} < f_{\text{RF}} \leq 2080 \text{ MHz}$,
- switchable bandpasses for suppression of subharmonics,
- an output amplifier,
- a level detector at the output FOPU,
- a signal path for setting the nominal value of the RF level and the amplitude-modulation depth,
- the RF-level control,
- a serial interface and
- a circuit for diagnostics selection.

Further information on levels apply for an instrument output level of +13 dBm (+19 dBm with option SMY-B40).

7.1.1 RF Signal Processing

The input X224 FSYN is followed by an attenuator for temperature compensation. The attenuator is followed by the AM MODULATOR.

It is used as control element for level control in the range $f_{\text{RF}} \leq 1.04 \text{ GHz}$.

The RF signal is amplified by RF AMPLIFIER 1 and RF AMPLIFIER 2 and passed to the PIN modulator LEVEL PRESET. This modulator is set by means of stored calibration data via the D/A converter such that the control element for level control can be openominal in an optimum operating point (cf. operating manual "Calibrating LEVEL PRESET").

The RF signal is amplified by the RF AMPLIFIER 3 and routed to switchable HARMONIC FILTERS. These filters are switched on by the controller depending on the input frequency at X224 FSYN. Similar to the lowpasses TP4 to TP8, the lowpasses TP0 and TP3 are cascaded. Filters which have a higher cutoff frequency than the cutoff frequency of the lowpass selected remain switched on. In "normal operation", the RF signal passes via the PIN switch SWITCHD (OFF) and the GaAs changeover switch SWITCHB (OFF) to the output amplifier.

In "mixer operation", the RF signal is passed via the PIN switch SWITCHD (ON) and the RF AMPLIFIER 4 to the detector preceding the mixer.

In "doubler operation", the RF signal is switched via the GaAs switch SWITCHA (ON) to the doubler. The output signal of the latter is passed via the DOUBLER MODULATOR to switchable bandpass filters and via the GaAs switch SWITCHC (ON) to the output amplifier.

7.1.2 Mixer with LO, RF and IF Filters

The RF signal supplied by the detector preceding the mixer is switched via the RF lowpass and an attenuator to the RF input of the mixer for level adjustment (level approx. -5 to -10 dBm). The signal of REF640 passes via a lowpass to the LO input of the mixer. The IF signal reaches the RF switch SWITCHB (ON) preceding the output amplifier via the IF amplifier and the IF lowpass ($5 \text{ kHz} \leq f_{ZF} < 65 \text{ MHz}$, level approx. 0 dBm).

7.1.3 Output Amplifier

The three-stage linear broadband amplifier amplifies the input signal by approx. 19 dB. The operating points of the stages RF AMPLIFIER 12 and RF AMPLIFIER 13 are controlled.

7.1.4 AM Signal Path a. Nominal Value of RF Level

The signal of the AMMOD line is passed to the D/A converter for setting of the modulation depth and is then applied to the D/A converter RFLEV for setting of the RF level.

7.1.5 RF Level Control

For instruments without option SMY-B40, the level detector at the output X226 FOPU is used with instrument frequencies $f_{RF} \geq 10 \text{ MHz}$. The RF level at the diode is approx. +19 dBm. The linearization circuit allows for a dynamic range of approx. 30 dB with good linearity (important for low distortion).

For instruments with option SMY-B40, the detector on the option SMY-B40 is used for level control at instrument frequencies $\geq 10 \text{ MHz}$. Its output voltage is applied to the motherboard via the cable W125 and then fed into the input X2.A5 DETEXT of this module.

The level detector in the RF path preceding the mixer is used with instrument frequencies $f_{RF} < 10$ MHz instead of the detector at the output X226 FOPU. The RF level at the diode is approx. +15 dBm.

The level is controlled via the PI regulator N335. The reference value is supplied by the D/A converter RFLEV and compared to the actual value of one of the three detectors (VDET, DETEXT or VDETMIX) according to the frequency range. The output voltage of the PI regulator adjusts the control element:

the AM MODULATOR operates in the range $f_{RF} \leq 1040$ MHz;

the DOUBLER MODULATOR operates in the range $f_{RF} > 1040$ MHz;

additionally, the control voltage of the AM MODULATOR is fixed to approx. 14 V by the control signal MODUFIX, in order to obtain minimum attenuation.

The 3-dB bandwidth of the control loop can be reduced by AMSLOW from approx. 300 kHz to approx. 50 kHz (see special function 13).

Activating of KLEMM-N by the processor sets the AM modulator to maximum attenuation, which is used, e.g., for frequency changes in order to avoid level spikes.

7.1.6 Serial Interface

The incoming data are clocked into the shift registers and the D/A converters LEVEL PRESET, RFLEV and AM.

7.1.7 Circuit for Diagnostics Selection

One of eight dc voltages can be applied to the diagnostic line via the diagnostic multiplexer. The voltage can be displayed on the instrument.

Special function	Nominal voltage range	Remark
101	0.00 V to 5 V	RF level before passing Doubler Modulator
102	0.00 V to 6 V	Detector voltage output FOPU
103	0.00 V to 6 V	Detector voltage mixer
104	0.01 V to 3 V	RF level after passing the filter bank
105	-6.00 V to 0 V	Reference value of level control
106	-1.00 V to 10 V	Output voltage of control amplifier
107	-1.00 V to 10 V	Control voltage of the AM modulator
108	0.50 V to 13 V	Control voltage of the LEVEL PRESET element

7.2 Test Instrument and Utilities

- Spectrum analyzer (e.g., FSBS)
- Oscilloscope (e.g., BOL)
- DC voltmeter (multimeter, e.g., UDL33)
- Network analyzer (e.g., ZVR)
- RF power meter (e.g. NRVD with sensor NRV-Z51)
- 10-dB N-attenuator pad (e.g. DNF)

7.3 Troubleshooting

Prior to opening the instrument, it is useful to first start the calibration routine LEVEL PRESET and localize possible error sources using the diagnostic voltages.

7.3.1 Errors Occurring Only in the Range $f_{RF} < 10$ MHz

- | | |
|--------------------------------|--|
| incorrect level at X226 | Either the detector in the mixed range supplies an incorrect voltage or the PI regulator is not controlled correctly.
Check voltage VDETMIX using special function 103. |
| bad AM distortion | Check the linearization circuit of the detector. |

7.3.2 Errors Occurring Only in the Range $f_{RF} < 65$ MHz

- | | |
|-----------------------------------|--|
| Incorrect RF level at X226 | Check input REF640, IF amplifier, RF amplifier 4 and control of SBDON-P and SBDON-N of the changeover switches. |
| Harmonics too high | Check IF amplifier, IF lowpass and RF switch SWITCHB. |
| Spurious signals too high | The mixer is either faulty or its input level is too high (nominal level at the mixer RF input < -5 dBm). Check IF amplifier, IF lowpass and RF switch SWITCHB and the RF lowpass. |

7.3.3 Errors in the Range $5 \text{ kHz} \leq f_{RF} \leq 1040 \text{ MHz}$

- | | |
|----------------------------|---|
| No RF level at X226 | The control voltage of the AM modulator must be > 12 V, otherwise, the level control does not work correctly or the reference value of RFLEV D/A converter is incorrect. Check level at the output of harmonic filters (special function 104). Check the RF signal path using a spectrum analyzer with RF probe providing dc isolation (the gain of the amplifier stages is approx. 7 dB) |
| Harmonics too high | Check harmonic filters and subsequent RF amplifiers, check operating points of the output amplifier. |

Incidental phase modulation with AM too high Check the control voltage of the AM modulator. Perform LEVEL PRESET calibration.

AM distortion too high Test and adjust detector and linearization circuit, check AMSLOW control.

7.3.4 Errors in the Range $1040 \text{ MHz} \leq f_{\text{RF}} \leq 2080 \text{ MHz}$

No RF level at X226 The control voltage of the AM modulator must be $> 12 \text{ V}$, otherwise, the level control does not work correctly or the reference value of RFLEV D/A converter is incorrect. Check level at the output of harmonic filters (special function 104) and level preceding the Doubler Modulator (special function 101). Check changeover switches SwitchA and SwitchC prior and subsequent to the bandpass filters. Check the RF signal path using a spectrum analyzer with RF probe providing dc isolation (the gain of the amplifier stages is approx. 7 dB)

Harmonics too high Check harmonic filters and subsequent RF amplifiers, check switchable bandpass filters and the changeover switches SWITCHA and SWITCHC, check operating point of the DOUBLER MODULATOR and those of the output amplifier.

Subharmonics too high Check switchable bandpass filters and the changeover switches SWITCHA and SWITCHC, check operating point of the DOUBLER MODULATOR, check LEVEL PRESET voltage, perform LEVEL PRESET calibration (special function 45).

Incidental phase modulation with AM too high Check the control voltage of the AM modulator. Perform LEVEL PRESET calibration.

AM distortion too high Test and adjust detector and linearization circuit, check AMSLOW control.

7.3.5

Spectral Purity, $\Delta f < 10$ MHz from the Carrier

Spurious signals at approx. 1 MHz from carrier

ALC loop oscillates;
check detector and linearization
circuit. Perform LEVEL PRESET
calibration.

7.4

Testing and Adjustment

Hints: *Ground via-holes have been fitted next to the coupling capacitors or resistors. A coaxial cable can be soldered in at such a location and a test instrument (e.g., a network or spectrum analyzer) can be connected via a coupling capacitor or an external dc isolation. Therefore, the coaxial cable is routed through the hole, the external conductor is soldered at the via-hole and the inner conductor at the desired location.*

7.4.1

Testing Data Transmission

The test is performed with the instrument settings listed in the table.

- Test the voltages at D120:
"1" = +5 V, "0" = 0 V

RF frequency	D120/14	D120/6	Remark
RF 1MHz	0	1	DETMIXON
RF 10MHz	1	0	DETON

7.4.2

Testing the Output Voltage of the Control Amplifier

The LEVEL PRESET calibration is required for optimum operation of the amplitude modulator. This optimum operating point depends on the RF-frequency range.

The following applies for the frequency range $f_{RF} \leq 1040$ MHz:
the nominal output voltage of the control amplifier is 6.3 V for an output level of 13 dBm (19 dBm with option SMY-B40). When the level is reduced electronically to 7 dBm (13 dBm with option SMY-B40), this voltage shall drop to 3.9 V and remain constant at 3.9 V with further electronic reduction down to -6 dBm (0 dBm with option SMY-B40).

The following applies for the frequency range $f_{RF} > 1040$ MHz:
the nominal output voltage of the control amplifier is 7.5 V for an output level of 13 dBm (19 dBm with option SMY-B40). When the level is reduced electronically to 7 dBm (13 dBm with option SMY-B40), this voltage shall drop to 5.4V and remain constant at 5.4 V with further electronic reduction down to -6 dBm (0 dBm with option SMY-B40).

- Terminate the instrument output RF 50Ω with 50Ω .
- Set LEVEL to 13 dBm (19 dBm with option SMY-B40) and
- switch on special function 1 (non-interrupting level setting))
- The output voltage of the control amplifier can be measured using special function 106.

7.4.3 Testing the LEVEL PRESET Control Voltage

- Terminate the instrument output RF 50Ω with 50Ω.
 - Set LEVEL to 13 dBm (19 dBm with option SMY-B40).
 - Switch on special function 1 (non-interrupting level setting)
- The LEVEL PRESET voltage can be measured using special function 108. The voltage depends on the RF frequency and the RF level. The controller transmits the calculated values to the LEVEL PRESET D/A converter.

Typical voltages are given in the table below:

RF-Frequenz	SMY02 without option SMY-B40				SMY02 with option SMY-B40			
	13 dBm	7 dBm	0 dBm	-6 dBm	19 dBm	13 dBm	6 dBm	0 dBm
25 MHz	1.4 V	1.4 V	1.0 V	0.8 V	1.4 V	1.4 V	1.0 V	0.8 V
100 MHz	1.6 V	1.6 V	1.2 V	0.8 V	1.6 V	1.6 V	1.2 V	0.8 V
300 MHz	1.4 V	1.4 V	1.0 V	0.8 V	1.4 V	1.4 V	1.0 V	0.8 V
500 MHz	1.3 V	1.3 V	1.0 V	0.8 V	1.3 V	1.3 V	1.0 V	0.8 V
750 MHz	2.0 V	2.0 V	1.4 V	1.0 V	2.0 V	2.0 V	1.4 V	1.0 V
800 MHz	1.6 V	1.6 V	1.2 V	1.0 V	1.6 V	1.6 V	1.2 V	1.0 V
1040 MHz	2.2 V	2.2 V	1.5 V	1.2 V	2.2 V	2.2 V	1.5 V	1.2 V
1041 MHz	1.0 V	1.0 V	0.9 V	0.8 V	1.0 V	1.0 V	0.9 V	0.8 V
1200 MHz	1.2 V	1.2 V	1.0 V	0.9 V	1.2 V	1.2 V	1.0 V	0.9 V
1400 MHz	1.3 V	1.3 V	1.1 V	1.0 V	1.3 V	1.3 V	1.1 V	1.0 V
1600 MHz	1.4 V	1.4 V	1.1 V	1.0 V	1.4 V	1.4 V	1.1 V	1.0 V
1800 MHz	1.8 V	1.8 V	1.5 V	1.4 V	1.8 V	1.8 V	1.5 V	1.4 V
2000 MHz	2.1 V	2.1 V	1.6 V	1.5 V	2.1 V	2.1 V	1.6 V	1.5 V
2080 MHz	2.4 V	2.4 V	1.8 V	1.6 V	2.4 V	2.4 V	1.8 V	1.6 V

7.4.4 Testing the Operating Points of Amplifier Stages

Test point	Nominal voltage	Remark
N360/3	5.50 ± 1.1 V	RF AMPLIFIER 2
N410/3	5.50 ± 1.1 V	RF AMPLIFIER 3
V602 Collector	8.90 ± 0.3 V	RF AMPLIFIER 4
V612 Collector	5.90 ± 0.3 V	IF AMPLIFIER
V671 Collector	5.50 ± 1.1 V	RF AMPLIFIER 7
V874 Collector	5.20 ± 1.1 V	RF AMPLIFIER 8
V769 Collector	5.20 ± 1.1 V	RF AMPLIFIER 9
V801 Collector	5.20 ± 1.1 V	RF AMPLIFIER 11
V817 Collector	15.9 ± 0.3 V	RF AMPLIFIER 12
V832 Collector	15.9 ± 0.3 V	RF AMPLIFIER 13

7.4.5 Testing the Harmonic Filter Control

_ Testing LPSELECT-0 ... LPSELECT-3 and the lines TP0 to TP8.

RF frequency	LPSELECT-				Remark
3	2	1	0		
D111/8	D111/11	D111/6	D111/3		
1560.00 MHz	0	0	0	1	Lowpass 1, Doubler range
1040.01 MHz	0	0	1	0	Lowpass 2, Doubler range
780.00 MHz	0	0	0	1	Lowpass 1
520.00 MHz	0	0	1	0	Lowpass 2
390.00 MHz	0	0	1	1	Lowpass 3
260.00 MHz	0	1	0	0	Lowpass 4
195.00 MHz	0	1	0	1	Lowpass 5
130.00 MHz	0	1	1	0	Lowpass 6
97.50 MHz	0	1	1	1	Lowpass 7
65.00 MHz	1	0	0	0	Lowpass 8
64.00 MHz	0	0	1	0	Lowpass 2, Mixer range

For output frequencies $65 \text{ MHz} \leq f_{\text{RF}} \leq 1040 \text{ MHz}$ on the instrument, the output frequency is supplied by the synthesis module.

For output frequencies $f_{\text{RF}} > 1040 \text{ MHz}$ on the instrument, the synthesis module provides the half output frequency ($520 \text{ MHz} < f_{\text{SYN}} \leq 1040 \text{ MHz}$).

7.4.6 Testing the RF Level at the Harmonic Filter Output

- Terminate the instrument output RF 50Ω with 50Ω .
 - Setting: RF LEVEL 13 dBm (19 dBm with option SMY-B40).
- _ The rectified RF voltage can be measured using special function 104.

Typical voltages are given in the table below:

RF frequency	Diagnostic voltage	
10 MHz	0.8 V	
100 MHz	0.6 V	
200 MHz	0.9 V	
400 MHz	1.1 V	
600 MHz	1.2 V	
800 MHz	0.8 V	
1000 MHz	1.1 V	
1040 MHz	0.9 V	
1041 MHz	1.5 V	
1200 MHz	1.1 V	
1400 MHz	1.0 V	
1600 MHz	1.0 V	
1800 MHz	1.0 V	
2000 MHz	1.8 V	
2080 MHz	1.9 V	

7.4.7 Testing Control of the Bandpass Filter Switches

— Testing BP1ON, BP2ON and BP3ON.

RF frequency D112/3	BP1ON D112/6	BP2ON D112/11	BP3ON	Remark
1040.00 MHz	0	0	0	Bandpass filters switched off
1040.01 MHz	1	0	0	Bandpass 1 on
1310.40 MHz	0	1	0	Bandpass 2 on
1651.10 MHz	0	0	1	Bandpass 3 on

7.4.8 IF Amplification Adjustment

- Connect a spectrum analyzer to the instrument output RF 50Ω.
- Setting: RF 10 MHz
 LEVEL 13 dBm (19 dBm with option SMY-B40)
- Measure RF signal, note RF level
- Decrease RF frequency by 1 Hz
- Adjust the RF level to the same value using the potentiometer R645
- Subsequent to adjustment, call the calibration routine LEVEL PRESET.

7.4.9 IF Detector Linearity Adjustment

- Setting: RF 9.9 MHz
 LEVEL -5.1 dBm (11.1 dBm with option SMY-B40)
- Measure and note the output level at the RF output (= ref level)
- Setting: Switch on special function 1
 (non-interrupting level setting)
 LEVEL -14.9 dBm (-8.9 dBm with option SMY-B40)
- Adjust R619 that the measured level is 20 dB below the previously measured reference level. Repeat adjustment once, since the reference value slightly changes with use of R619; after the adjustment, the accuracy of the 20-dB reduction shall reach ± 0.1 dB.

7.4.10 Detector Linearity Adjustment at the Output FOPU

Note: This adjustment must be carried out if option SMY-B40 is **not** fitted!

- Setting: RF 100 MHz
 LEVEL 13 dBm
- Measure and note the output level at the RF output of the instrument (= reference level)

- Setting: Switch on special function 1 (non-interrupting level setting))
LEVEL -7 dBm
- Adjust R851 that the measured level is 20 dB below the previously measured reference level. Repeat adjustment once, since the reference value changes with use of R851; the accuracy of the 20-dB reduction shall reach ± 0.1 dB.

7.4.11 AM Depth Adjustment

- Setting: PRESET
LEVEL 7 dBm (+13 dBm with option SMY-B40)
AM EXT DC 100%
Switch on special function 105
(reference value of level control)
- Apply a dc voltage $V = -1.000$ V to AM EXT.
- Adjust to 0 V using POT R280.

7.5 Disassembly and Assembly

Remove upper instrument cover. The module is fixed to the support at the left and right sides. Subsequent to undoing these screws and disconnecting the coaxial connections at X224, X225 and X226, it can be taken out of its slot.

7.6

Final Test

7.6.1

Maximum Output Level Check

- Setting: LEVEL 19 dBm (25 dBm with option SMY-B40)
- Connect a power meter to X226 FOPU.
To prevent the sensor from being overdriven, it might be necessary to insert before a suitable RF-attenuator pad.
- Vary the RF frequency from 5kHz to 2080 MHz.
The RF level must remain > 15 dBm (20 dBm with option SMY-B40).

Typical levels are given in the table below:

	SMY02 without option SMY-B40	SMY02 with option SMY-B40
RF-frequency	output level	output level
10 MHz	19 dBm	21 dBm
200 MHz	19 dBm	25 dBm
400 MHz	19 dBm	24 dBm
600 MHz	20 dBm	25 dBm
800 MHz	18 dBm	26 dBm
1000 MHz	17 dBm	25 dBm
1200 MHz	19 dBm	24 dBm
1400 MHz	18 dBm	24 dBm
1600 MHz	17 dBm	24 dBm
1800 MHz	16 dBm	23 dBm
2000 MHz	16 dBm	24 dBm
2080 MHz	16 dBm	24 dBm

7.6.2

Harmonics Suppression Check

Instrument without option SMY-B40:

- Setting: LEVEL 10 dBm
- Connect a spectrum analyzer to X226 FOPU.
_ The level of the harmonics must be < -30 dBc.

Instrument with option SMY-B40:

- Setting: LEVEL 16 dBm
 Special 21 (ALC off)

As the connection from FOPU to the power module is undone for the measurement, the level control must be switched to sample-and-hold operation. This connection must be reestablished before any of the instrument settings are changed.

- Set measurement frequency
- Connect spectrum analyzer to XD226 FOPU
The level of the harmonics must be <-25 dBc.

Typical values are given in the table below:

RF-frequency	SMY02 without option SMY-B40		SMY02 with option SMY-B40	
	2*FRF	3*FRF	2*FRF	3*FRF
1 MHz	-45 dBc	-40 dBc	-45 dBc	-48 dBc
10 MHz	-50 dBc	-45 dBc	-48 dBc	-48 dBc
200 MHz	-50 dBc	-45 dBc	-40 dBc	-50 dBc
400 MHz	-45 dBc	-40 dBc	-35 dBc	-45 dBc
600 MHz	-35 dBc	-40 dBc	-35 dBc	-50 dBc
800 MHz	-35 dBc	-40 dBc	-35 dBc	-50 dBc
1000 MHz	-35 dBc	-50 dBc	-32 dBc	-50 dBc
1200 MHz	-35 dBc	-50 dBc	-32 dBc	-50 dBc
1400 MHz	-40 dBc	-45 dBc	-32 dBc	-50 dBc
1600 MHz	-45 dBc	-45 dBc	-32 dBc	-50 dBc
1800 MHz	-45 dBc	-45 dBc	-32 dBc	-50 dBc
2000 MHz	-35 dBc	-50 dBc	-35 dBc	-50 dBc
2080 MHz	-45 dBc	-50 dBc	-45 dBc	-50 dBc

7.6.3 Nonharmonics Suppression Check

Instrument without option SMY-B40:

- Setting: RF 63 MHz
LEVEL 13 dBm
 - Connect a spectrum analyzer to X226 FOPU.
 - Test spurious responses with the subsequent frequencies:
703 MHz, 640 MHz, 136 MHz, 73 MHz, 10 MHz
- The level of the spurious signals must be < -70 dBc (typ. < -100 dBc).

Instrument with option SMY-B40:

- Setting: LEVEL 19 dBm
Special 21 (ALC off)

As the connection from FOPU to the power module is undone for the measurement, the level control must be switched to sample-and-hold operation. This connection must be reestablished before any of the instrument settings are changed.

- Test spurious signals for the following frequencies:
703 MHz, 640 MHz, 136 MHz, 73 MHz, 10 MHz
 - Set RF-frequency
 - Connect spectrum analyzer to X226 FOPU
- The level of the spurious signals must be < -70 dBc (typ. < -100 dBc).

7.6.4

Subharmonics Suppression Check

Instrument without option SMY-B40:

Setting: LEVEL 13 dBm

- Connect a spectrum analyzer to X226 FOPU.
- Set RF frequency on the SMY and measure the level of the subharmonics with f_{SUB1} and f_{SUB2} (see table below).
The level must be < -40 dBc.

Instrument with option SMY-B40:

- Setting: LEVEL 19 dBm
 Special 21 (ALC off)

As the connection from FOPU to the power module is undone for the measurement, the level control must be switched to sample-and-hold operation. This connection must be reestablished before any of the instrument settings are changed.

- Set RF frequency
- Connect a spectrum analyzer to X226 FOPU.
- Measure the level of the subharmonics with f_{SUB1} and f_{SUB2} (see table below). The level must be < -40 dBc.

RF frequency	fsub1	fsub2	
1040.01 MHz	520.005 MHz	1560.015 MHz	
1310.39 MHz	655.195 MHz	1965.585 MHz	
1310.40 MHz	655.200 MHz	1965.600 MHz	
1559.99 MHz	779.995 MHz	2339.985 MHz	
1560.00 MHz	780.000 MHz	2340.000 MHz	
1651.09 MHz	825.545 MHz	2476.635 MHz	
1651.10 MHz	825.550 MHz	2476.650 MHz	
2080.00 MHz	1040.000 MHz	3120.000 MHz	

7.7

External Interfaces

Pin	Name	Input/Output	Origin/Dest.	Specified range	Signal description
X2A.01	BLANK	Input	Rear panel	HCMOS level	RF-level blanking
X2A.05	DETEXT	Input	PMOD	0 to 10 V	Detector voltage option SMY-B40
X2A.07	AMMOD	Input	CPU X3.34	-1 V to 1 V	AM signal
X2A.12	SERCLK	Input	CPU X3.2	HCMOS level	Clock
X2A.14	SERDAT	Input	CPU X3.4	HCMOS level	Serial data
X2A.15	AT1STB	Input	CPU X3.16	HCMOS level	Strobe 1
X2A.17	HFINT	Output	CPU X3.20	HCMOS level	Interrupt level control
X2A.19	DIAG-5V	Output	CPU X3.6	-5V to 5V	Diagnostics
X2A.22	VA24-P	Input	Power X21.22	23.4V to 24.6V	Analog supply voltage
X2A.24	VA15-P	Input	Power X21.13	14.80V to 15.75V	Analog supply voltage
X2A.25					
X2A.28	VA-5P	Input	Power X21.5	5.10V to 5.25V	Analog supply voltage
X2A.30	VA15-N	Input	Power X21.20	-15.75V to -14.85V	Analog supply voltage
X224	FSYN	Input	YSYN X124	6 - 12dBm	65 - 1040 MHz
X225	REF640	Input	YSYN X125	9 - 12 dBm	640 MHz
X226	FOPU	Output	Attenuator X2	-6 to 20 dBm	5 kHz - 2.08 GHz

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

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR 02 = GRUNDAUSFUEHRUNG MOD 02 = BASIC_MODEL VAR 03 = SMY12+SMY-B40 UMGERUESTET AUS VAR 02 MOD 03 = SMY12+SMY-B40 CONVERTED O. MOD 02 VAR 04 = SMY44/45 MOD 04 = SMY44/45 VAR 06 = SMY4X MIT OPT. SMY-B40 UMGERUESTET AUS VAR 04 MOD 06 = SMY4X WITH OPT. SMY-B40 CONVERTED O. MOD 04				
C12	CC 47NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5195.00	PHILIPS_CO	2238 581 15645	
C13	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C14	NICHT BESTUECKT/NOT FITTED CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..17 C20	CE 220UF+-20%10V RM2,5 ELECTROLYTIC CAPACITOR	CE 0008.7927.00	PANASONIC	ECA-1AFG221I	
C21	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C22	CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR	0803.0667.00	NAT_PANASO	ECE-A1VKS-100	
C132	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C133	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C149	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..154 C156	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C157	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C158	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..162 C170	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C207	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
C208	CC 2,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8188.00	MURATA	GRM42-6COG 2R7 C5OPT	
C208	NUR VAR/ONLY MOD: 02 04 CC 2,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8188.00	MURATA	GRM42-6COG 2R7 C5OPT	
C209	NUR VAR/ONLY MOD: 03 06 NICHT BESTUECKT/NOT FITTED CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	
C219	CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	
C219	NUR VAR/ONLY MOD: 02 04 CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 50PT	
C220	NUR VAR/ONLY MOD: 03 06 CC 270PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8867.00	PHILIPS_CO	2222 863 18271	
C221	CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C5OPT	
C240	NICHT BESTUECKT NOT FITTED CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	
C242	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C244	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C245	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
MENP5	413 3PUA	Äi	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.
28-0893	28	16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	1+

Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C250 ..264	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C275	CC 8,2PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C50PT	
C280	CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	
C300	CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C302	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C303	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C313	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C315	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C316	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C318	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C319	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C325	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C327	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C328	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C329	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C330	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C340	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C356	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C357	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C359	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C360	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C361	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C362	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C400	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C401	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C402	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C404	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C405	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C410	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C412	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C417	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C440 ..442	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C445	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C500	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C501	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C502	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C504	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C505	CC 3,3PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8194.00	MURATA	GRM42-6COG 3R3 C50PT	
C506	CC 2,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8188.00	MURATA	GRM42-6COG 2R7 C50PT	
C507	CC 2,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8188.00	MURATA	GRM42-6COG 2R7 C50PT	
C509	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C510	CC 3,9PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8207.00	MURATA	GRM42-6COG 3R9 C50PT	
C511	CC 3,3PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8194.00	MURATA	GRM42-6COG 3R3 C50PT	
C512	CC 3,3PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8194.00	MURATA	GRM42-6COG 3R3 C50PT	
C513	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C514	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C515	CC 5,6PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8220.00	MURATA	GRM42-6COG 5R6 C50PT	
C516	CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C517	CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C518	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C519	CC 1,8PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8165.00	MURATA	GRM42-6COG 1R8 C50PT	
C520	CC 1,5PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8159.00	MURATA	GRM42-6COG 1R5 C50PT	
C521	CC 1,5PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR	CC 0007.8159.00	MURATA	GRM42-6COG 1R5 C50PT	
C522	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C523	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C524	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C525	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
C526	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C527	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C530	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C531	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C532	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C533	CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C534	CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C536	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C537	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C538	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C539	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C540	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C545	CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8409.00	MURATA	GRM42-6COG 270F 50PT	
C546	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C547	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C553	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthaltene in contained in
C560	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 50PT	
C562	CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8409.00	MURATA	GRM42-6COG 270F 50PT	
C564	CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8396.00	MURATA	GRM42-6COG 220F 50PT	
C568	CC 5,6PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8220.00	MURATA	GRM42-6COG 5R6 C50PT	
C569	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C570	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C571	XX ENTHALTEN IN INCLUDED IN				
C573	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	
C575	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	
C580	CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8750.00	MURATA	GRM42-6COG 150F 50PT	
C582	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C583	XX ENTHALTEN IN INCLUDED IN				
C584	CC 5,6PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8220.00	MURATA	GRM42-6COG 5R6 C50PT	
C585	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C599	XX ENTHALTEN IN INCLUDED IN				
C600	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C601	CC 27NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8473.00	PHILIPS_CO	2238 581 16633	
C602	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C603	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C604	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C605	CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C606	CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8207.00	MURATA	GRM42-6COG 3R9 C50PT	
C607	CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8207.00	MURATA	GRM42-6COG 3R9 C50PT	
C608	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C609	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C610	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C611	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C612	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C613	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C614	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C615	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C616	CC 2,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8171.00	MURATA	GRM42-6COG 2R2 C50PT	
C617	CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C618	CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C50PT	
C619	CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C50PT	
C620	CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C621	CC 1,5PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8159.00	MURATA	GRM42-6COG 1R5 C50PT	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C623	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C625	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C627	CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8767.00	MURATA	GRM42-6COG 180F 50PT	
C628	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C629	CE 47UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7300.00	SPRAGUE	293D X9 010 D2T	
C631	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C632	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C633	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C634	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
C635	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C636	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
C637	CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
C638	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C639	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C640	CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C641	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C642	CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8815.00	MURATA	GRM42-6COG 680F 50PT	
C643	CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8815.00	MURATA	GRM42-6COG 680F 50PT	
C644	CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.8213.00	MURATA	GRM42-6COG 4R7C 50PT	
C645	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C646	CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8242.00	MURATA	GRM42-6COG 8R2 C50PT	
C647	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C650	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C651	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C652	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C653	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C654	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0099.8521.00	MURATA	GRM42-6X7R103K 50PT	
C656	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C660	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C664	CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8744.00	MURATA	GRM42-6COG 120 F50PT	
C668	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C669	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C670	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C671	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C672	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C673	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	

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C674	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C675	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C676	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C677	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C678	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C679	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C680	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C681	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C682	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C700	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C701	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C702	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C705	CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8809.00	MURATA	GRM42-6COG 560F 50PT	
C707	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C708	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C709	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C710	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C714	CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8207.00	MURATA	GRM42-6COG 3R9 C50PT	
C715	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C720	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C721	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C723	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C724	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C725	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
..727					
C728	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C729	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C732	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C734	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C735	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C736	CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8821.00	MURATA	GRM42-6COG 820F 50PT	
C738	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C740	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C741	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C742	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C743	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C744	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C745	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C747	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C748	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C750	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C751	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C753	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..757	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C762	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C765	CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8809.00	MURATA	GRM42-6COG 560F 50PT	
C766	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C767	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C768	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C769	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C770	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
..772	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C773	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C774	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C775	CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8780.00	MURATA	GRM42-6COG 330F 50PT	
..781	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C783	CC 1,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8142.00	MURATA	GRM42-6COG 1R2 C50PT	
..794	CC 1,5PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8159.00	MURATA	GRM42-6COG 1R5 C50PT	
C795	CC 1,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8142.00	MURATA	GRM42-6COG 1R2 C50PT	
C796	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C797	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C798	CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8850.00	PHILIPS_CO	2238 863 18221	
C799	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C800	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C801	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C802	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C803	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C804	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C805	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C806	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C808	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C810	NICHT BESTUECKT NOT FITTED				
C812	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C816	CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8480.00	MURATA	GRM42-6COG 100 C50PT	
C817	CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8207.00	MURATA	GRM42-6COG 3R9 C50PT	
C818	CC 3,3PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8194.00	MURATA	GRM42-6COG 3R3 C50PT	
C819	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C820	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
C821	NICHT BESTUECKT NOT FITTED CE 100UF+-20%25V RD8X9,5 ELECTROLYTIC CAPACITOR	0803.0580.00	MATSUSHITA	ECE-A1ESS-101	
C828	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C830	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C831	CC 3,3PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR	CC 0007.8194.00	MURATA	GRM42-6COG 3R3 C50PT	
C832	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
C833	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR NICHT BESTUECKT NOT FITTED	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C834	CE 100UF+-20%25V RD8X9,5 ELECTROLYTIC CAPACITOR	0803.0580.00	MATSUSHITA	ECE-A1ESS-101	
C835	CC 1,0PFO,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR BESTEHT AUS 001.4339 2X3MM	0009.8304.00	AVX	0603 5A *** BAT00J	
C836	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C839	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C840	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..843 C844	CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4680.00	MURATA	GRM39COG***F50PT	
C846	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C847	CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR	CC 0099.8496.00	MURATA	GRM42-6COG 470F 50PT	
C848	CC 10PF+-0,1 50V NPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4567.00	AVX	0603 5A *** BAT00J	
C849	CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR NICHT BESTUECKT NOT FITTED	CC 0099.8667.00	PHILIPS_CO	2238 863 15108	
C850	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..852 C853	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C854	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C855	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C870	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C871	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C880	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C881	CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
C882	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C883	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C884	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C885	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
..890 C892	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 0007.5237.00	PHILIPS_CO	2238 581 15649	
C893	CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR	CC 0007.7398.00	PHILIPS_CO	2222 863 *8102	
C894	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 0099.8415.00	MURATA	GRM42-6COG 101F 50PT	
D10	BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER	BL 0007.6827.00	PHILIPS	(PC)74HCT4051(T)	
D100	BL PC74HCT132T 4X2IN SCHM NAND SCHMITT TRIGGER	BL 0007.6340.00	PHILIPS	(PC)74HCT132(D/T)	
D102	BL PC74HC4094T 8ST.BUSREG BUS REGISTER	BL 0804.0977.00	PHILIPS_SE	(PC)74HC4094(D/T)	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
D105	BL PC74HC08T 4X2IN.ANDG QUAD 2INPUT AND GATE	BL 0007.3486.00	PHILIPS_SE	(PC)74HC08(D/T)	
D110	BL PC74HC4094T 8ST.BUSREG BUS REGISTER	BL 0804.0977.00	PHILIPS_SE	(PC)74HC4094(D/T)	
D111	BL PC74HC08T 4X2IN.ANDG QUAD 2INPUT AND GATE	BL 0007.3486.00	PHILIPS_SE	(PC)74HC08(D/T)	
D112	BL PC74HC08T 4X2IN.ANDG QUAD 2INPUT AND GATE	BL 0007.3486.00	PHILIPS_SE	(PC)74HC08(D/T)	
D115	BL PC74HC86T 4X2IN EXOR QUAD 2INPUT EXOOR GATE	BL 0007.3511.00	PHILIPS_SE	(PC)74HC86(D/T)	
D120	BL PC74HC4094T 8ST.BUSREG BUS REGISTER	BL 0804.0977.00	PHILIPS_SE	(PC)74HC4094(D/T)	
D140	BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER	1012.9510.00	PMI	DAC8143FS	
D141	BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH	1004.7058.00	SILICONIX	DG413DY	
D145	BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER	1012.9510.00	PMI	DAC8143FS	
D150	BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER	1012.9510.00	PMI	DAC8143FS	
D200	BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH	1004.7058.00	SILICONIX	DG413DY	
D210	BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH	1004.7058.00	SILICONIX	DG413DY	
D220	BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH	1004.7058.00	SILICONIX	DG413DY	
D430	BL PC74HCT42T BCD/D. DEC DECODER	BL 0007.6240.00	PHILIPS	(PC)74HCT42(T)	
D431	BL PC74HCT04T 6XINVERT HEXINVERTER	BL 0007.5372.00	PHILIPS_SE	(PC)74HCT04(D/T)	
D432	BL PC74HCT04T 6XINVERT HEXINVERTER	BL 0007.5372.00	PHILIPS_SE	(PC)74HCT04(D/T)	
D759	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D760	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
D800	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
L20	LD 10 UH 10% 3R3 144 MA CHOKE	LD 0026.4184.00	DALE	IM2	
L21	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-K100	
L22	LD 470NH 10% 0,15A 1210 SMD-INDUCTOR	LD 0007.9926.00	SIEMENS	B82422-A3471-K100	
L300	LD 220NH 10% 0,28A 1210 SMD-INDUCTOR	LD 0520.7911.00	SIEMENS	B82422-A3221-K100	
L301	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L305	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L325	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L340	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L350	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
L351	LD 1,00UH10%1,000HMO,390A CHOKE NICHT BESTUECKT NOT FITTED	LD 0067.2863.00	DALE	IM2	
L353	LD 1,00UH10%1,000HMO,390A CHOKE NICHT BESTUECKT NOT FITTED	LD 0067.2863.00	DALE	IM2	
L355	LD 220NH 10% 0,28A 1210 SMD-INDUCTOR	LD 0520.7911.00	SIEMENS	B82422-A3221-K100	
L360	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L361	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L380	XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
L400	LD 0,82UH10%0,850HMO,420A CHOKE	LD 0067.2857.00	DALE	IM2	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L410	LD 0,68UH10%0,600HMO,500A CHOKE	LD 0067.2840.00	DALE	IM2	
L416	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L417	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L431	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L432	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L500	LD 1,20UH10%0,180HMO,620A CHOKE	LD 0067.2870.00	DALE	IM2	
L505	LD 100NH 10% 0,080HM 1,4A CHOKE	LD 0067.2740.00	DALE	IM2	
L510	LD 0,33UH10%0,220HMO,830A CHOKE	LD 0067.2805.00	DALE	IM2	
L517	LD 0,15UH10%0,100HM1,230A CHOKE	LD 0067.2763.00	DALE	IM2	
L520	LD 0,82UH10%0,850HMO,420A CHOKE	LD 0067.2857.00	DALE	IM2	
L530	LD 3,30UH10%0,850HMO,285A CHOKE	LD 0067.2928.00	DALE	IM2	
L532	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
..534					
L536	LD 3,30UH10%0,850HMO,285A CHOKE	LD 0067.2928.00	DALE	IM2	
L537	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L538	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L539	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L540	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
..542					
L543	LD 3,30UH10%0,850HMO,285A CHOKE	LD 0067.2928.00	DALE	IM2	
L544	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L545	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
..547					
L548	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L549	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
..551					
L553	LD 3,30UH10%0,850HMO,285A CHOKE	LD 0067.2928.00	DALE	IM2	
L559	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L560	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L561	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L562	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L563	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L564	LD 100NH 10% 0,44A 1210 SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L565	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L566	LD 47NH 10% 0,51A 1210 SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L568	LD 3,30UH10%0,850HMO,285A CHOKE	LD 0067.2928.00	DALE	IM2	
L570	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
..572					
L580	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L583	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L584	LD 22NH 10% 0,60A 1210 SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L585	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L600	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
..602					
L604	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L608	LD 12NH 10% SMD-INDUCTOR	1002.4900.00	SIEMENS	B82422-A3120-K100	
L610	LD 12NH 10% SMD-INDUCTOR	1002.4900.00	SIEMENS	B82422-A3120-K100	
L612	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L613	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L630	LD 47NH 10% SMD-INDUCTOR	0008.5976.00	SIEMENS	B82422-A3470-K100	
L632	LD 22NH 10% SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L633	LD 22NH 10% SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L642	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L643	LD 0,27UH10%0,160HMO,975A CHOKE	LD 0067.2792.00	DALE	IM2	
L645	LD 0,15UH10%0,100HM1,230A CHOKE	LD 0067.2763.00	DALE	IM2	
L647	LD 0,18UH10%0,120HM1,120A CHOKE	LD 0067.2770.00	DALE	IM2	
L649	LD 0,15UH10%0,100HM1,230A CHOKE	LD 0067.2763.00	DALE	IM2	
L650	LD 22NH 10% SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L651	LD 22NH 10% SMD-INDUCTOR	1002.4897.00	SIEMENS	B82422-A3220-K100	
L660	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L668	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L669	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L670	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L671	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L672	LD 1,00UH10%1,000HMO,390A CHOKE NICHT BESTUECKT NOT FITTED	LD 0067.2863.00	DALE	IM2	
L673	LD 1,00UH10%1,000HMO,390A CHOKE NICHT BESTUECKT NOT FITTED	LD 0067.2863.00	DALE	IM2	
L674	LD 0,82UH10%0,850HMO,420A CHOKE	LD 0067.2857.00	DALE	IM2	
L675	LD 1,00UH10%1,000HMO,390A CHOKE	LD 0067.2863.00	DALE	IM2	
L705	LD 220NH 10% SMD-INDUCTOR	LD 0520.7911.00	SIEMENS	B82422-A3221-K100	
L706	LD 220NH 10% SMD-INDUCTOR	LD 0520.7911.00	SIEMENS	B82422-A3221-K100	
L709	LD 4,7UH 10% SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-K100	
L714	LD 100NH 10% SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L720	LD 4,7UH 10% SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-K100	
L727	LD 1UH 10% SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L730	LD 100NH 10% SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L732	LD 4,7UH 10% SMD-INDUCTOR	LD 0008.1687.00	SIEMENS	B82422-A1472-K100	
L738	LD 100NH 10% SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L739	LD 100NH 10% SMD-INDUCTOR	LD 0007.9249.00	SIEMENS	B82422-A3101-K100	
L740	LD 0,82UH10%0,850HMO,420A CHOKE NICHT BESTUECKT NOT FITTED	LD 0067.2857.00	DALE	IM2	
L742	LD 1,00UH10%1,000HMO,390A CHOKE NICHT BESTUECKT	LD 0067.2863.00	DALE	IM2	

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Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
L748	NOT FITTED XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				
L754	LD 1UH 10% 0,38A 1210	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
..756	SMD-INDUCTOR				
L765	LD 1,00UH10%1,000HMO,390A	LD 0067.2863.00	DALE	IM2	
..768	CHOKE				
L770	LD 1,00UH10%1,000HMO,390A	LD 0067.2863.00	DALE	IM2	
	CHOKE				
	NICHT BESTUECKT				
L771	NOT FITTED LD 1,00UH10%1,000HMO,390A	LD 0067.2863.00	DALE	IM2	
	CHOKE				
	NICHT BESTUECKT				
L800	NOT FITTED LD 0,82UH10%0,850HMO,420A	LD 0067.2857.00	DALE	IM2	
	CHOKE				
L801	LD 1,00UH10%1,000HMO,390A	LD 0067.2863.00	DALE	IM2	
	CHOKE				
L816	LD 12NH 10% 0,70A 1210	1002.4900.00	SIEMENS	B82422-A3120-K100	
	SMD-INDUCTOR				
L817	LD 3,9MH 0,2A 200HM	1020.5256.00	SIEMENS	B82500-C-A2	
	INTERFERENCE CHOKE				
	IN LEITERPLATTE				
L818	LD SMD-DR.Z=850 OHM 100MH	1085.1661.00	PHILIPS	WBS2.5-5/4.8/10-4B1	
	CHOKE				
L819	LD 2,2UH 10% 0,27A 1210	LD 0520.7870.00	SIEMENS	B82422-A1222-K100	
	SMD-INDUCTOR				
L829	LD SMD-DR.Z=850 OHM 100MH	1085.1661.00	PHILIPS	WBS2.5-5/4.8/10-4B1	
	CHOKE				
L830	LD 2,2UH 10% 0,27A 1210	LD 0520.7870.00	SIEMENS	B82422-A1222-K100	
	SMD-INDUCTOR				
L831	LD 3,9MH 0,2A 200HM	1020.5256.00	SIEMENS	B82500-C-A2	
	INTERFERENCE CHOKE				
	IN LEITERPLATTE				
L840	LD 1UH 10% 0,38A 1210	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
	SMD-INDUCTOR				
L841	LD 1UH 10% 0,38A 1210	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
	SMD-INDUCTOR				
L845	LD 100UH 10% 0,06A 1210	LD 0007.9261.00	SIEMENS	B82422-A1104-K100	
	SMD-INDUCTOR				
L880	LD 1,20UH10%0,180HMO,620A	LD 0067.2870.00	DALE	IM2	
	CHOKE				
L885	LD 1UH 10% 0,38A 1210	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
	SMD-INDUCTOR				
N20	BO TLO74ACD 4XFET OPAMP	0007.7823.00	TEXAS	TLO74A(CD)	
	OPERATIONAL AMPLIFIER				
N130	BO NE5532D 2XLN OPAMP	0007.7798.00	SIGNETICS	NE5532D	
	OPERATIONAL AMPLIFIER				
N131	BO NE5532D 2XLN OPAMP	0007.7798.00	SIGNETICS	NE5532D	
	OPERATIONAL AMPLIFIER				
N223	BO TLO72ACD 2XFET OPAMP	0803.1057.00	TEXAS	TL 072 ACDR	
	OPERATIONAL AMPLIFIER				
N228	BO TLO72ACD 2XFET OPAMP	0803.1057.00	TEXAS	TL 072 ACDR	
	OPERATIONAL AMPLIFIER				
N235	BO NE5534D OPAMP	0815.7555.00	SIGNETICS	NE5534(D)	
	OPERATIONAL AMPLIFIER				
N275	BO TLO72ACD 2XFET OPAMP	0803.1057.00	TEXAS	TL 072 ACDR	
	OPERATIONAL AMPLIFIER				
N276	BO TLO72ACD 2XFET OPAMP	0803.1057.00	TEXAS	TL 072 ACDR	
	OPERATIONAL AMPLIFIER				
N300	BM MSA0486 DC-3.2G MMIC	0846.4293.00	AVANTEK	MSA-0486	
	BROADBAND AMPLIFIER				
	NICHT BESTUECKT				
	NOT FITTED				
N360	BM MSA1105 05-1.3G MMIC	1051.4051.00	AVANTEK	MSA-1105-TR1	
	IC MICROWAVE MONOLITH AMP				
N600	BO TLO74ACD 4XFET OPAMP	0007.7823.00	TEXAS	TLO74A(CD)	
	OPERATIONAL AMPLIFIER				
N610	BO AD744KR FET OPAMP	0854.1754.00	ANALOG_DEV	(AD)744KR	
	BIFET OPAMP				
N740	BM MSA0486 DC-3.2G MMIC	0846.4293.00	AVANTEK	MSA-0486	
	BROADBAND AMPLIFIER				
	NICHT BESTUECKT				
	NOT FITTED				

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
N776 ...778 N840	BO NE5532D 2XLN OPAMP OPERATIONAL AMPLIFIER	0007.7798.00	SIGNETICS	NE5532D	
N845	BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER	0007.7823.00	TEXAS	TLO74A(CD)	
	BO AD744KR FET OPAMP BIFET OPAMP	0854.1754.00	ANALOG_DEV	(AD)744KR	
P300	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P305	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P352	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P353	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P375	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P380	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P385	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P600	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P601	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P620	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P621	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P628	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P848	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P866	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R9	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R10	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R11	RG 182 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5989.00	ROEDERSTEI	DC2 182KOHM 1%TK100	
R12	RG 121,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1960.00	RESISTA	DC2 121KOHM 1% TK100	
R13	RG 121,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1960.00	RESISTA	DC2 121KOHM 1% TK100	
R14	RG 56,2KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1883.00	ROEDERSTEI	DC2 56,2KOHM 1%TK100	
R15	RG 27,4KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5895.00	ROEDERSTEI	DC2 27,4KOHM 1%TK100	
R16	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	
R17	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R20	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R21	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R22	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
..25	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R26	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R27	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
..32	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R33	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R34	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R35	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	DC2 2,0KOHM 1%TK100	
R36	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	
R38	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R41	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
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		28	16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005 01 SA	12+

Kannz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R49 ..56 R116	RG 20,OKOHM+-1%TK100 1206 RESISTOR CHIP RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.5866.00 RG 0007.0793.00	ROEDERSTEI	DC2 20,OKOHM 1%TK100 DC2 10,OKOHM 1%TK100	
R117	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R119	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R120 ..122 R123	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.1948.00 RG 0007.0793.00	ROEDERSTEI	DC2 100KOHM 1%TK100 DC2 10,OKOHM 1%TK100	
R124	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R130 ..132 R133	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.0793.00 RG 0007.5108.00	ROEDERSTEI DRALORIC	DC2 10,OKOHM 1%TK100 CR 1206	
R134	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R149	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R160	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R161	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R162	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R163	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R165	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R166	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R167	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R168	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R170	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R171	RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R172	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R173	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	
R206	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT NOT FITTED	RG 0007.5108.00	DRALORIC	CR 1206	
R207	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R208	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R209	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R211	RG 3,01KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 02 04	RG 0007.5772.00	ROEDERSTEI	DC2 3,01KOHM 1%TK100	
R211	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 03 06	RG 0007.5743.00	ROEDERSTEI	DC2 2,21KOHM 1%TK100	
R212	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R213	RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,OKOHM 1%TK100	
R214	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	ROEDERSTEI	DC2 3,32KOHM 1%TK100	
R215	RG 20,OKOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	DC2 20,OKOHM 1%TK100	
R216	RG 20,OKOHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5866.00	ROEDERSTEI	DC2 20,OKOHM 1%TK100	
R218	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,OKOHM 1%TK100	

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	28	16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	14+		

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R220	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R221	RG 182 KOHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5989.00	ROEDERSTEI	DC2 182KOHM 1%TK100	
R240	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R241	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	DC2 20,0KOHM 1%TK100	
R259	RG 221 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6004.00	ROEDERSTEI	DC2 221KOHM 1%TK100	
R259	NUR VAR/ONLY MOD: 02 04 RG 56,2KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1883.00	ROEDERSTEI	DC2 56,2KOHM 1%TK100	
R271	NUR VAR/ONLY MOD: 03 06 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R272	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R275	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R276	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R278	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	DC2 47,5KOHM 1%TK100	
R278	NUR VAR/ONLY MOD: 02 RG 30,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5908.00	ROEDERSTEI	DC2 30,1KOHM 1%TK100	
R280	NUR VAR/ONLY MOD: 03 04 06 RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	RS 0007.9632.00	SIEMENS	S4G-5KOHM	
R283	RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5866.00	ROEDERSTEI	DC2 20,0KOHM 1%TK100	
R285	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R286	RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5914.00	ROEDERSTEI	DC2 33,2KOHM 1%TK100	
R299	NUR VAR/ONLY MOD: 02 04 RG 15,0KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5843.00	ROEDERSTEI	DC2 15,0KOHM 1%TK100	
R299	NUR VAR/ONLY MOD: 03 06 RG 0,05W 22R +-1% 0805 RESISTOR	RG 0007.8920.00	HONEST JAP	MR 08 M 22R 1% 0805	
R301	RK SMD-HEISSL.220R 0805 SMD-NTC-RESISTOR	1039.1310.00	SIEMENS	B57620-C221-K62	
R308	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R310	RG 12,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8661.00	ROEDERSTEI	DC2 12,1OHM 1%TK100	
R312	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R313	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R314	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R315	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R316	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R317	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R318	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R319	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R320	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R321	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	DC2 2,0KOHM 1%TK100	
R325	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R327	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R328	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R329	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R330	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	

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				28 16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	15+

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R332	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R333	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R340	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R341	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R342	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R355	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R356	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R357	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R360	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R361	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R400	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R401	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R402	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R404	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R405	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R406	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R407	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R408	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R409	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R410	RG 39,2KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5937.00	ROEDERSTEI	DC2 39,2KOHM 1%TK100	
R411	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	DC2 1,5KOHM 1%TK100	
R412	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R416	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R417	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R431	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
..438	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R440	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R442	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R443	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R450	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R451	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	
R452	RG 182 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5595.00	ROEDERSTEI	DC2 182OHM 1%TK100	
R453	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	
R454	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R455	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R500	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	DC2 2,0KOHM 1%TK100	
..502	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R503	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R520	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
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			28.16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	16+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R530	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R600	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	ROEDERSTEI	DC2 221OHM 1%TK100	
R601	RL 0,60W 274 OHM+-1%TK50 RESISTOR	RL 0083.0178.00	RESISTA	MK2	
R602	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	ROEDERSTEI	DC2 27,4OHM 1%TK100	
R603	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	DC2 33,2OHM 1%TK100	
R604	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R605	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R607	RG 825 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6133.00	ROEDERSTEI	DC2 825KOHM 1%TK100	
R608	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R609	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	DC2 1,5KOHM 1%TK100	
R611	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R612	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R613	RG 3,57KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5795.00	ROEDERSTEI	DC2 3,57KOHM 1%TK100	
R614	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	ROEDERSTEI	DC2 2,74KOHM 1%TK100	
R615	RG 1,2MOHM+-5%TK200 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	0007.9949.00	ROEDERSTEI	D 25	
R616	RG 3,57KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5795.00	ROEDERSTEI	DC2 3,57KOHM 1%TK100	
R618	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R619	RS 0,25W 5KOHM +-20% SMD POTENTIOMETER	RS 0007.9632.00	SIEMENS	S4G-5KOHM	
R620	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R621	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R622	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R623	RK SMD-HEISSL.22OR 0805 SMD-NTC-RESISTOR NICHT BESTUECKT NOT FITTED	1039.1310.00	SIEMENS	B57620-C221-K62	
R624	RK SMD-HEISSL.22OR 0805 SMD-NTC-RESISTOR	1039.1310.00	SIEMENS	B57620-C221-K62	
R625	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	ROEDERSTEI	DC2 27,4OHM 1%TK100	
R626	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R627	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R628	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R629	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R630	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R631	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R632	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R633	RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5766.00	ROEDERSTEI	DC2 2,74KOHM 1%TK100	
R634	RG 5,62OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8442.00	PHILIPS	RC 02	
R635	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	DC2 22,1KOHM 1%TK100	
R636	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R637	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	DC2 1,5KOHM 1%TK100	
R638	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R639	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R640	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R641	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R642	RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8810.00	RESISTA	DC2 51,10HM 1%TK100	
R644	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R645	RS 0,25W200 OHM+-20% SMD POTENTIOMETER	RS 0007.9590.00	SIEMENS	S4G-200 OHM	
R646	RL 0,60W 182 OHM+-1%TK50 RESISTOR	RL 0083.0010.00	RESISTA	MK2	
R647	RL 0,60W 121 OHM+-1%TK50 RESISTOR	RL 0082.9859.00	RESISTA	MK2	
R648	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R649	RG 2,74OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8365.00	PHILIPS	RC 02	
R650	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R651	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	
R652	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,10HM 1%TK100	
R653	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,20HM 1%TK100	
R654	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,20HM 1%TK100	
R655	RG 2,21OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8342.00	PHILIPS	RC 02	
R656	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R657	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R658	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R659	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R660	RG 681 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6110.00	ROEDERSTEI	DC2 681KOHM 1%TK100	
R661	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R662	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R663	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT NOT FITTED	RG 0007.5108.00	DRALORIC	CR 1206	
R670	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R671	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R672	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R673	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R674	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R675	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R676	RG 5,62OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8442.00	PHILIPS	RC 02	
R677	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R678	RG 825 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.7259.00	ROEDERSTEI	DC2 825OHM 1%TK100	
R679	RG 5,62OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8442.00	PHILIPS	RC 02	
R680	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R681	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	

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		28	16 09 97	FF AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	18+

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R682	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	ROEDERSTEI	DC2 82,5OHM 1%TK100	
R683	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R684	RG 475 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6079.00	ROEDERSTEI	DC2 475KOHM 1%TK100	
R685	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R686	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	
R687	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R688	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R689	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R690	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R691	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R692	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R693	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R694	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
..697 R698	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R699	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R700	RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8861.00	ROEDERSTEI	DC2 82,5OHM 1%TK100	
R701	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R702	RG 475 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6079.00	ROEDERSTEI	DC2 475KOHM 1%TK100	
R703	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R704	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R705	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	
R706	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R707	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R708	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R709	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R710	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R720	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R721	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R723	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R724	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R725	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R726	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R727	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R728	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R730	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R731	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R732	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R733	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R734	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R735	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R736	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R737	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R738	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5737.00	ROEDERSTEI	DC2 2,0KOHM 1%TK100	
R739	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R740	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R741	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R742	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R743	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R745	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R747	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R748	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R750	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R751	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R753	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R754	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R755	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R760	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R761	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R762	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R765	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	RESISTA	DC2 3,92KOHM 1%TK100	
R766	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R767	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R768	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R769	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R770	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R771	RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5450.00	ROEDERSTEI	DC2 15,0OHM 1%TK100	
R772	RG 511 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9051.00	ROEDERSTEI	DC2 511OHM 1%TK100	
R773	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R774	RL 0,60W 1,33KOHM+-1%TK50 RESISTOR	RL 0083.0684.00	RESISTA	MK2	
R776	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R777	RL 0,60W 100 OHM+-1%TK50 RESISTOR	RL 0082.6543.00	RESISTA	MK2	
R779	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R780	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R781	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	
R782	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R783	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R784	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R785 ..790	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R791	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R792	RL 0,60W 100 OHM+-1%TK50 RESISTOR NICHT BESTUECKT NOT FITTED	RL 0082.6543.00	RESISTA	MK2	
R793	RG 82,5KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.1925.00	ROEDERSTEI	DC2 82,5KOHM 1%TK100	
R794	RG 12,1KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0841.00	ROEDERSTEI	DC2 12,1KOHM 1%TK100	
R800	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R801	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R802	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R803	RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0007.0770.00	ROEDERSTEI	DC2 8,25KOHM 1%TK100	
R804	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R805	RG 332 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5650.00	ROEDERSTEI	DC2 332OHM 1%TK100	
R806	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R807	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R808	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R809	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	
R810 ..812	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,1OHM 1%TK100	
R813	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R815	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R816	RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5520.00	ROEDERSTEI	DC2 33,2OHM 1%TK100	
R817	RG 150 OHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5589.00	ROEDERSTEI	DC2 150OHM 1%TK100	
R818	RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5489.00	ROEDERSTEI	DC2 22,1OHM 1%TK100	
R819	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
R820	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	DRALORIC	CR(B) 1206...	
R821	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R822	RG 3,16KOHM+-1%TK100 1206 CHIP RESISTOR	0007.0670.00	RESISTA	DC 2	
R823	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R824	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	DC2 2,21KOHM 1%TK100	
R825	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	ROEDERSTEI	DC2 221OHM 1%TK100	
R826	RG 18,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5466.00	ROEDERSTEI	DC2 18,2OHM 1%TK100	
R827	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	DC2 47,5KOHM 1%TK100	
R828	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R829	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R830	RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR	RG 0006.7271.00	ROEDERSTEI	DC2 1,0KOHM 1%TK100	
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R831	RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR	RG 0006.8649.00	DRALORIC	CR(B) 1206...	
R832	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
R834	RG 3,16KOHM+-1%TK100 1206 CHIP RESISTOR	0007.0670.00	RESISTA	DC 2	
R835	RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5950.00	ROEDERSTEI	DC2 47,5KOHM 1%TK100	
R836	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5743.00	ROEDERSTEI	DC2 2,21KOHM 1%TK100	
R837	RG 18,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5466.00	ROEDERSTEI	DC2 18,2OHM 1%TK100	
R838	RG 18,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5466.00	ROEDERSTEI	DC2 18,2OHM 1%TK100	
R839	RL 0,40W 820 OHM2% UNGEW. RESISTOR	RL 0092.6069.00	RESISTA	MK1 820OHM 2% UNG.	
R841	RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST JAP	MR 08 M 100R 1% 0805	
R841	NUR VAR/ONLY MOD: 02 04 RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R842	NUR VAR/ONLY MOD: 03 06 RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST JAP	MR 08 M 100R 1% 0805	
R842	NUR VAR/ONLY MOD: 02 04 RG 0,05W 100R +-1% 0805 RESISTOR	RG 0007.9003.00	HONEST JAP	MR 08 M 100R 1% 0805	
R843	NUR VAR/ONLY MOD: 03 06 NICHT BESTUECKT/NOT FITTED RG 10K +-1% TK200 0603	RG 0009.5357.00	DRALORIC	CR 0603 10K 1% TK200	
R844	SMD-RESISTOR EIA0603 RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	RESISTA	DC2 3,92KOHM 1%TK100	
R845	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	RESISTA	DC2 3,92KOHM 1%TK100	
R846	RG 100 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8884.00	ROEDERSTEI	DC2 100OHM 1%TK100	
R847	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R848	RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9968.00	ROEDERSTEI	DC2 1,21KOHM 1%TK100	
R849	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R850	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R851	RS 0,25W 2KOHM +-20% SMD POTENTIOMETER	RS 0007.9626.00	SIEMENS	S4G-2KOHM	
R852	RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR	RG 0007.1948.00	ROEDERSTEI	DC2 100KOHM 1%TK100	
R853	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,2OHM 1%TK100	
R854	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0815.7532.00	DRALORIC	CRC 1206	
R855	RG 4,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5814.00	RESISTA	DC2 4,32KOHM 1%TK100	
R856	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	ROEDERSTEI	DC2 3,32KOHM 1%TK100	
R857	RG 4,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5814.00	RESISTA	DC2 4,32KOHM 1%TK100	
R858	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R859	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,2OHM 1%TK100	
R860	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R861	RG 475 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5695.00	ROEDERSTEI	DC2 475OHM 1%TK100	
R862	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5789.00	ROEDERSTEI	DC2 3,32KOHM 1%TK100	
R863	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R866	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR	RG 0815.7532.00	DRALORIC	CRC 1206	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R867	RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5808.00	RESISTA	DC2 3,92KOHM 1%TK100	
R868	RG 681 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6110.00	ROEDERSTEI	DC2 681KOHM 1%TK100	
R869	RG 825 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.6133.00	ROEDERSTEI	DC2 825KOHM 1%TK100	
R870	RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5872.00	ROEDERSTEI	DC2 22,1KOHM 1%TK100	
R871	RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR	RG 0007.0793.00	ROEDERSTEI	DC2 10,0KOHM 1%TK100	
..874 R875	RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5714.00	ROEDERSTEI	DC2 1,5KOHM 1%TK100	
R876	RG 392 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5672.00	ROEDERSTEI	DC2 392OHM 1%TK100	
R880	RL 0,40W 470 OHM2% UNGEW. RESISTOR	RL 0092.6030.00	RESISTA	MK1 470OHM 2% UNGEW.	
R882	RG 18,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5466.00	ROEDERSTEI	DC2 18,2OHM 1%TK100	
R887	RG 221 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5614.00	ROEDERSTEI	DC2 221OHM 1%TK100	
R889	RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP NICHT BESTUECKT NOT FITTED	RG 0007.5566.00	ROEDERSTEI	DC2 47,5OHM 1%TK100	
R898	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603 100R 1%TK200	
R899	RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT NOT FITTED	RG 0815.7532.00	DRALORIC	CRC 1206	
U600	BM LRMS-2 MIXER 1GHZ HYBRID MIXER	1062.6273.00	MINI-CIRCU	LRMS-2	
U666	BM AK3000-1 DOPPLER FREQUENCY DOPPLER	1039.1256.00	MINI-CIRCU	AK-3000-1	
V11	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V12	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V13	AK BCX70H N 45V 200MA TRANSISTOR	AK 0007.3105.00	VALVO	BCX 70 H	
V14	AD BAS32 75V UDI DIODE NICHT BESTUECKT/NOT FITTED	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V15	AD BAS32 75V UDI DIODE NICHT BESTUECKT/NOT FITTED	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V25	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V26	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V35	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V110	AE 1N827 6,2V REF DI REFERENCE DIODE	AE 0418.0029.00	COMPENSATE	1N827(A)	
V130	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V134	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V200	AK BCX70H N 45V 200MA TRANSISTOR	AK 0007.3105.00	VALVO	BCX 70 H	
V310	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
V315	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
V318	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V319	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V330	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V333	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V335	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
..337 V400	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V404	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V405	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V410	BM MSA1105 05-1.3G MMIC IC MICROWAVE MONOLITH AMP	1051.4051.00	AVANTEK	MSA-1105-TR1	
V411	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V431 ..438 V500	AK BCX70H N 45V 200MA TRANSISTOR AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	AK 0007.3105.00	VALVO	BCX 70 H	
V511	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V512	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V514 ..516 V520	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V523	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V530	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V532	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V535	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V536	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V539	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V540	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V543	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V544	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V548	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V600	AE BZX55/B6V2 0,5W ZDI ZENER DIODE	AE 0012.2161.00	PHILIPS	BZX79B6V2	
V602	AK BFQ34T N 18V 150MA TRANSISTOR	0801.8283.00	PHILIPS	BFQ34T	
V604	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V606	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V608	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V610	AE BZV55/C5V1 0.5W ZDI ZENER DIODE	AE 0006.9839.00	PHILIPS_SE	BZV55B5V1 (GEG)	
V612	AK BFQ34T N 18V 150MA TRANSISTOR	0801.8283.00	PHILIPS	BFQ34T	
V635	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V636	AE 1N827 6,2V REF DI REFERENCE DIODE	AE 0418.0029.00	COMPENSATE	1N827(A)	
V656	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V670	BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER NICHT BESTUECKT NOT FITTED	0846.4293.00	AVANTEK	MSA-0486	
V671	BM MSA1105 05-1.3G MMIC IC MICROWAVE MONOLITH AMP	1051.4051.00	AVANTEK	MSA-1105-TR1	
V680 ..683 V700	AD BAV99 70V DUO UDI DIODE AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	AD 0911.0092.00	VALVO	BAV99	
V705	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V707	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V715	AD BAS32 75V UDI DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V716	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V717	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V718	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V720	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V725	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V730	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V735	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V745	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V746	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V747	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V748	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V750 ..753	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V765	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V766	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V768	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
V769	BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER	0846.4293.00	AVANTEK	MSA-O486	
V770 ..775	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V780	BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER NICHT BESTUECKT NOT FITTED	0846.4293.00	AVANTEK	MSA-O486	
V782 ..787	AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE	1039.1327.00	SIEMENS	BAR6404 (Q62702-A101	
V801	BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER	0846.4293.00	AVANTEK	MSA-O486	
V802	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V803	AE BZV55/C6V2 0,5W ZDI ZENER DIODE	AE 0006.9851.00	PHILIPS	BZV55B6V2	
V804	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V805	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V814	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V815	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V816	AK BCX71J P 45V 200MA TRANSISTOR	AK 0007.2096.00	VALVO	BCX71J GEGURTET	
V817	AK AT-64020 TRANSISTOR TRANSISTOR	1039.1404.00	AVANTEK	AT-64020	
V827	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V828	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V829	AK BCX71J P 45V 200MA TRANSISTOR	AK 0007.2096.00	VALVO	BCX71J GEGURTET	
V830	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V831	AK BCX71J P 45V 200MA TRANSISTOR	AK 0007.2096.00	VALVO	BCX71J GEGURTET	
V832	AK AT-64020 TRANSISTOR TRANSISTOR	1039.1404.00	AVANTEK	AT-64020	
V833	AK BCX71J P 45V 200MA TRANSISTOR	AK 0007.2096.00	VALVO	BCX71J GEGURTET	
V834	AK BCP68-16 N 20V TRANS TRANSISTOR BCP68	0008.2019.00	PHILIPS	BCP68-25	
V844	AE BAT62 1+1 40V SCHOTTKY DIODE PAIR	1051.4045.00	SIEMENS	BAT62 (62)	
V850	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V853	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	

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		28	16.09.97	EE AUSGANGSTEIL 2.08GHZ	1062.7005.01 SA	25+

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
V857	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V870	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V871	AE 1N827 6,2V REF DI REFERENCE DIODE	AE 0418.0029.00	COMPENSATE	1N827(A)	
V874	BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER	0846.4293.00	AVANTEK	MSA-0486	
V875	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V876	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
V877	AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.)	4001.5082.00	SIEMENS	BAR61(Q62702A120)	
W1	DW KABEL W1	1062.7086.00			
X2	FP STECKERLEISTE 32POL. CONNECTOR 32P.	FP 0008.5718.00	SIEMENS	V42254-B1200-B611	
X205	FP STIFTLISTE 4P.R2,54 PIN CONNECTOR	FP 0009.6147.00			
X224 ..226	FJ EINBAUWINKELST. SMC ANGLE CONNECTOR	FJ 0249.9684.00	ROSENBERGE	39S-205-400-D3	
Z1	LD SMD-T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z2	LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	
Z3	LD SMD-T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z4	LD SMD-T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z5 ..9	LD SMD-T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z10	LD SMD-T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	
Z11	LD SMD-T-FILTER 100PF SMD-FILTER	1039.1356.00	MURATA	NFM61R00T101T1	
Z20	LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER	LD 0008.5901.00	OXLEY	SLT/P/22000/SM3	
Z700	XX ENTHALTEN IN INCLUDED IN				
Z710	IN LEITERPLATTE XX ENTHALTEN IN INCLUDED IN				
Z720	IN LEITERPLATTE XX ENTHALTEN IN INCLUDED IN IN LEITERPLATTE				

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Datum
Date

Schaltteilliste für
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XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

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

Explanation of column designations:

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

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					
303	B	18	53	9D	4	C22	B	114	32	3E	2	C327	B	17	48	6D	4
309	B	30	71	10D	4	C132	B	225	35	9B	10	C328	B	19	41	7D	4
310	B	22	71	11D	4	C133	B	232	38	8B	10	C329	A	39	41	7C	4
413	B	50	69	5D	5	C149	A	210	43	3A	10	C330	A	43	38	7C	4
414	B	40	70	5D	5	C150	A	177	44	1A	10	C340	B	45	50	8C	4
506	B	81	83	3E	6	C151	A	168	53	2A	10	C356	B	31	46	8D	4
507	B	92	102	3D	6	C152	A	87	57	3A	10	C357	B	31	53	9D	4
509	B	92	83	4D	6	C153	B	128	54	6A	10	C359	A	41	60	10E	4
514	B	96	95	5D	6	C154	A	135	53	6A	10	C360	B	31	67	10D	4
515	B	111	95	5D	6	C156	A	200	43	4A	10	C361	B	23	83	12D	4
516	B	112	88	5D	6	C157	A	158	53	5A	10	C362	A	48	86	11E	4
518	B	123	89	6D	6	C158	A	257	173	6A	10	C400	A	48	84	2C	5
519	B	125	87	6D	6	C159	A	241	177	6A	10	C401	B	42	81	3D	5
520	B	135	95	7D	6	C160	A	135	42	6E	10	C402	B	30	78	4D	5
522	B	137	75	7E	6	C161	A	99	44	9E	10	C404	A	34	88	3C	5
528	B	148	82	8D	6	C162	A	76	22	10E	10	C405	A	35	91	4C	5
529	B	148	91	8D	6	C170	A	188	43	4A	10	C410	A	42	76	5E	5
542	B	46	98	2B	6	C207	B	90	18	10D	3	C412	B	37	72	5D	5
543	B	20	111	2B	6	C208	B	82	46	8C	3	C417	A	70	70	7E	5
544	B	23	116	3B	6	C209	A	95	44	6C	3	C440	A	126	123	9B	5
545	B	37	111	4B	6	C219	B	82	43	8C	3	C441	A	133	138	9B	5
548	B	76	132	6B	6	C220	A	54	39	9E	3	C442	A	114	109	10B	5
550	B	145	137	8B	6	C221	B	64	21	9D	3	C445	B	63	86	1C	6
600	B	178	70	2E	7	C240	B	57	12	10E	3	C500	B	64	77	2E	6
602	B	63	178	8D	11	C242	B	66	16	11F	3	C501	A	83	83	2F	6
607	B	215	83	4D	7	C244	A	78	40	4A	3	C502	B	70	88	2D	6
608	B	208	86	5D	7	C245	A	72	49	4A	3	C504	B	78	86	3D	6
612	B	218	62	3D	7	C250	A	58	62	2A	3	C505	B	79	94	3E	6
650	B	122	151	2D	11	C251	A	64	62	2A	3	C506	B	91	97	3E	6
651	B	91	151	3D	11	C252	A	55	57	2A	3	C507	B	91	88	4E	6
660	B	218	62	3D	7	C253	A	59	51	2A	3	C509	A	97	86	4F	6
661	B	218	62	4D	7	C254	A	63	51	3A	3	C510	B	97	90	5E	6
705	B	150	122	2C	8	C255	A	55	47	3A	3	C511	B	112	99	5E	6
706	B	154	175	5D	12	C256	A	164	39	5A	3	C512	B	110	85	5E	6
707	B	161	145	5D	12	C257	A	57	18	6A	3	C513	B	104	74	5E	6
708	B	232	189	9D	12	C258	A	53	15	5A	3	C514	A	117	83	6F	6
740	B	192	129	8D	8	C259	A	163	34	5A	3	C515	B	121	85	6E	6
766	B	171	147	5D	12	C260	A	111	44	6A	3	C516	B	122	99	6E	6
777	B	226	185	9D	12	C261	A	59	30	3A	3	C517	B	133	90	7E	6
778	B	231	187	9E	12	C262	A	64	31	3A	3	C518	A	135	87	7F	6
840	B	277	53	10D	9	C263	A	55	25	4A	3	C519	B	146	77	8E	6
847	B	280	83	8D	9	C264	A	115	44	6A	3	C520	B	146	86	8E	6
851	B	288	15	11D	9	C275	B	163	41	1D	3	C521	B	146	94	8E	6
853	B	279	79	8D	9	C280	B	135	37	3C	3	C522	B	140	77	8E	6
857	B	279	57	10D	9	C300	B	39	20	3D	4	C523	B	140	86	8E	6
C12	B	208	33	8C	2	C302	B	24	27	4D	4	C524	B	141	94	8E	6
C13	B	113	29	3F	2	C303	B	34	23	4D	4	C525	B	147	102	9E	6
C14	A	227	44	5A	2	C313	B	45	29	5C	4	C526	A	140	113	9F	6
C15	A	235	45	5A	2	C315	B	18	24	5D	4	C527	B	150	111	11E	6
C16	A	227	21	6A	2	C316	B	22	34	6D	4	C530	A	59	93	2C	6
C17	A	239	14	6A	2	C318	A	12	37	5C	4	C531	B	72	96	2C	6
C20	B	107	16	2D	2	C319	A	15	41	6C	4	C532	B	52	97	2B	6
C21	B	126	32	3E	2	C325	B	30	38	6D	4	C533	B	19	104	2B	6

ROHDE & SCHWARZ	-I	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
	03	17.06.96	EE AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ	1062.7005.01 XY	1+

Part Side X Y Sqr Pg						Part Side X Y Sqr Pg						Part Side X Y Sqr Pg					
C534	B	43	104	3B	6	C634	B	254	87	8D	7	C726	A	241	135	10E	8
C536	A	78	109	3C	6	C635	B	236	95	10D	7	C727	A	169	104	5E	8
C537	B	54	115	4B	6	C636	B	238	98	10D	7	C728	A	220	120	10D	8
C538	B	38	118	4B	6	C637	B	245	83	9E	7	C729	A	220	135	10D	8
C539	B	56	123	5B	6	C638	A	223	85	3A	7	C732	B	184	99	6D	8
C540	A	86	120	5C	6	C639	A	219	77	3B	7	C734	B	177	100	7C	8
C545	B	65	132	6B	6	C640	B	220	92	10E	7	C735	A	180	102	6C	8
C546	B	37	131	6B	6	C641	B	223	95	10D	7	C736	A	177	93	7C	8
C547	B	59	137	7B	6	C642	B	207	95	10D	7	C738	B	191	103	7D	8
C553	A	89	131	7C	6	C643	B	204	110	11D	7	C740	B	192	113	8D	8
C560	B	113	139	8B	6	C644	B	213	113	11E	7	C741	B	154	186	3A	12
C562	B	128	133	9B	6	C645	B	219	113	11D	7	C742	A	204	121	9E	8
C564	B	116	130	9B	6	C646	B	227	109	11D	7	C743	B	210	128	9D	8
C568	B	92	112	10B	6	C647	B	207	114	11E	7	C744	A	272	187	11E	12
C569	A	90	114	10C	6	C650	A	183	69	7A	7	C745	B	148	188	3A	12
C570	B	102	110	10B	6	C651	A	187	64	7A	7	C747	A	225	131	11D	8
C571	B	102	119	10C	6	C652	A	215	67	6A	7	C748	A	228	127	11D	8
C573	B	111	110	11B	6	C653	A	218	67	6A	7	C750	A	211	133	11E	8
C575	B	119	110	11B	6	C654	B	242	97	9D	7	C751	A	198	124	11E	8
C580	B	126	106	11C	6	C656	A	209	67	2B	7	C753	A	203	135	11D	8
C582	B	135	106	11D	6	C660	A	157	91	4F	7	C754	A	154	147	2B	12
C583	B	135	119	12D	6	C661	A	171	86	4F	7	C755	A	157	153	2B	12
C584	B	144	113	12D	6	C662	A	157	80	4E	7	C756	A	149	147	2B	12
C585	A	103	71	2A	6	C663	A	178	75	4E	7	C757	A	146	154	2B	12
C599	B	140	106	9D	6	C664	B	210	95	10D	7	C762	A	183	121	7E	8
C600	B	170	86	1D	7	C668	A	153	72	5F	7	C765	B	90	175	2D	12
C601	B	175	79	1D	7	C669	A	121	164	3E	11	C766	B	103	185	2E	12
C602	B	180	69	2E	7	C670	A	269	109	7F	7	C767	B	100	177	2D	12
C603	B	167	73	2D	7	C671	A	264	97	7F	7	C768	B	101	171	2D	12
C604	B	194	74	3D	7	C672	B	129	151	2D	11	C769	B	109	175	3D	12
C605	B	217	67	4E	7	C673	B	98	151	3D	11	C770	A	104	180	2D	12
C606	B	220	76	4E	7	C674	A	86	162	4E	11	C771	A	114	171	2C	12
C607	B	218	86	5E	7	C675	B	56	151	4D	11	C772	B	119	185	3D	12
C608	B	229	83	5E	7	C676	B	29	172	6D	11	C773	B	265	183	11E	12
C609	A	181	86	2E	7	C677	A	49	177	7E	11	C774	B	142	175	5D	12
C610	A	202	77	2C	7	C678	B	53	181	7D	11	C775	A	131	183	4E	12
C611	A	168	64	4C	7	C679	B	60	181	8D	11	C776	A	187	146	6C	12
C612	A	128	156	2B	11	C680	A	55	190	8E	11	C777	A	184	154	6C	12
C613	A	133	162	2B	11	C681	A	46	190	8E	11	C778	A	172	166	6C	12
C614	A	105	149	2A	11	C682	B	78	185	9C	11	C779	A	234	166	6B	12
C615	A	105	157	2A	11	C700	B	151	119	2D	8	C780	A	207	182	6B	12
C616	B	91	147	3D	11	C701	A	148	129	2D	8	C781	A	209	184	6A	12
C617	B	264	27	5C	7	C702	A	148	122	2E	8	C783	B	194	149	6E	12
C618	B	256	30	5C	7	C705	B	166	137	3C	8	C784	B	194	154	7D	12
C619	B	264	37	6C	7	C707	B	170	124	4C	8	C785	B	166	170	7C	12
C620	B	255	40	6C	7	C708	B	166	115	4C	8	C786	B	205	189	8C	12
C621	B	58	147	4D	11	C709	A	166	120	4C	8	C787	B	203	179	8D	12
C623	B	116	151	2D	11	C710	A	168	114	4C	8	C788	B	232	166	8E	12
C625	B	250	69	7D	7	C714	B	169	109	4C	8	C789	B	222	146	7E	12
C627	B	260	74	7D	7	C715	B	170	98	5C	8	C790	B	197	160	7D	12
C628	B	269	76	8D	7	C720	A	180	137	4D	8	C791	B	174	174	7D	12
C629	B	265	82	8D	7	C721	B	177	129	4D	8	C792	B	184	186	7D	12
C631	B	183	76	2D	7	C723	A	184	130	4D	8	C793	B	210	172	7D	12
C632	B	189	79	3D	7	C724	B	184	128	4E	8	C794	B	237	157	7E	12
C633	B	260	88	9D	7	C725	A	238	121	10E	8	C795	B	235	185	9D	12
ROHDE & SCHWARZ	-I	Datum Date	XY-Liste für XY-list for				Sach-Nummer Stock-Nr				Blatt Page						
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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
C796	B	243	187	9D	12	C890	A	96	177	11C	11	D210-C				7D	3
C797	B	246	187	10D	12	C892	A	105	187	11C	11	D210-D				7E	3
C798	B	252	185	10D	12	C893	B	86	171	11C	11	D210-E				2A	3
C799	B	265	164	11D	12	C894	A	76	185	10D	11	D220-A	B	57	23	10C	3
C800	B	267	140	2D	9	D10-A	B	230	18	7E	2	D220-B				7D	3
C801	A	272	149	3E	9	D10-B				6A	2	D220-C				7D	3
C802	A	265	148	3E	9	D100-A	B	208	39	8C	2	D220-D				10C	3
C803	A	269	166	2E	9	D100-B				9C	2	D220-E				3A	3
C804	A	262	164	3E	9	D100-C				10C	2	D430-A	A	120	111	9D	5
C805	B	275	159	3D	9	D100-D				6D	10	D430-B				8B	5
C806	A	279	136	5E	9	D100-E				3A	10	D431-A	A	109	111	10B	5
C808	B	284	137	5D	9	D102-A	B	175	39	2E	10	D431-B				10E	5
C810	B	279	92	8D	9	D102-B				1A	10	D431-C				10E	5
C812	B	280	86	8D	9	D105-A	B	187	39	3C	10	D431-D				10D	5
C816	B	274	116	6C	9	D105-B				3C	10	D431-E				10D	5
C817	B	281	117	6D	9	D105-C				8C	10	D431-F				10D	5
C818	B	284	107	7D	9	D105-D				7A	10	D431-G				10B	5
C819	B	277	107	7E	9	D105-E				3A	10	D432-A	A	130	128	10C	5
C820	A	293	175	7E	9	D110-A	B	161	53	4E	10	D432-B				10C	5
C821	B	286	183	8E	9	D110-B				2A	10	D432-C				10C	5
C828	B	284	85	8D	9	D111-A	A	148	44	6C	10	D432-D				11B	5
C830	B	276	51	10D	9	D111-B				6C	10	D432-E				11B	5
C831	B	283	72	9D	9	D111-C				6C	10	D432-F				10B	5
C832	B	280	69	9E	9	D111-D				6B	10	D432-G				9B	5
C833	A	260	116	9E	9	D111-E				4A	10	D759	B	217	128	10D	8
C834	B	252	116	10E	9	D112-A	A	148	55	6B	10	D760	B	235	130	11D	8
C836	B	292	44	10D	9	D112-B				6B	10	D800	B	270	156	2D	9
C839	B	284	57	10E	9	D112-C				6B	10	L20	B	124	15	2D	2
C840	A	154	102	2B	9	D112-D				7A	10	L21	A	103	16	2D	2
C841	A	157	108	3B	9	D112-E				5A	10	L22	B	98	29	3D	2
C842	A	153	121	2A	9	D115-A	B	197	39	4C	10	L300	B	27	23	4D	4
C843	A	154	128	3A	9	D115-B				7C	10	L301	B	45	23	3D	4
C844	B	287	21	11D	9	D115-C				3E	10	L305	B	39	32	5D	4
C846	B	283	30	7C	9	D115-D				7A	10	L325	B	17	39	6D	4
C847	B	282	39	8C	9	D115-E				4A	10	L340	B	39	44	8D	4
C848	B	284	22	8C	9	D120-A	B	86	53	7E	10	L350	B	23	67	10D	4
C849	B	282	50	10D	9	D120-B				2A	10	L351	B	23	67	10D	4
C850	A	286	91	6A	9	D140-A	B	142	39	6E	10	L353	B	41	53	10E	4
C851	A	296	81	7A	9	D140-B				2B	3	L355	B	34	50	9D	4
C852	A	278	82	6B	9	D141-A	B	146	42	4E	3	L360	B	19	89	11D	4
C853	A	291	75	6C	9	D141-B				1C	3	L361	B	55	86	11E	4
C854	A	292	34	8A	9	D141-C				1B	3	L380	B	20	89	11D	4
C855	A	279	38	8A	9	D141-D				4D	3	L400	B	30	83	2D	5
C870	A	296	86	11B	9	D141-E				4A	3	L410	B	46	76	4D	5
C871	A	300	74	11C	9	D145-A	B	95	37	8E	10	L416	B	72	73	6D	5
C880	A	253	109	6F	9	D145-B				5B	3	L417	B	62	70	6E	5
C881	B	286	92	8E	9	D150-A	B	74	15	10E	10	L431	A	97	89	11E	5
C882	B	83	181	10C	11	D150-B				9E	3	L432	A	118	90	11E	5
C883	B	77	181	9C	11	D200-A	B	57	55	4F	3	L500	B	81	77	2E	6
C884	B	72	172	10C	11	D200-B				4E	3	L505	B	94	89	4F	6
C885	A	152	131	2B	9	D200-C				4E	3	L510	B	114	86	6F	6
C886	A	155	138	3B	9	D200-D				4E	3	L517	B	137	91	7F	6
C887	A	72	182	9C	11	D200-E				1A	3	L520	B	147	119	9E	6
C888	A	56	172	10C	11	D210-A	B	57	42	7E	3	L530	B	56	93	2C	6
C889	A	85	181	10C	11	D210-B				7E	3	L532	B	55	98	2B	6
ROHDE	-I	Datum		XY-Liste für						Sach-Nummer				Blatt			
&		Date		XY-list for						Stock-Nr				Page			
SCHWARZ				EE AUSGANGSTEIL_2.08GHZ						1062.7005.01 XY				3+			
		03	17.06.96	OUTPUT_UNIT_2.08GHZ													

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
L533	B	20	101	2B	6	L662	A	157	83	3F	7	N130-A	B	142	52	10D	10
L534	B	40	103	3B	6	L663	A	175	75	4F	7	N130-B				10C	10
L536	B	81	109	3C	6	L668	A	157	75	5F	7	N130-C				6A	10
L537	B	57	115	4B	6	L669	B	49	171	7D	11	N131-A	A	244	168	10C	10
L538	B	45	116	4B	6	L670	A	267	112	7F	7	N131-B				10C	10
L539	B	52	122	5B	6	L671	A	264	93	7F	7	N131-C				6A	10
L540	B	35	118	4B	6	L672	B	102	161	3D	11	N223-A	B	88	38	6C	3
L541	B	61	119	5B	6	L673	B	134	164	3E	11	N223-B				7B	3
L542	B	64	123	5B	6	L674	B	58	163	4D	11	N223-C				7A	3
L543	B	89	119	5C	6	L675	B	106	164	4E	11	N228-A	B	60	12	10E	3
L544	B	44	134	7B	6	L676	B	62	175	7E	11	N228-B				11E	3
L545	B	72	129	6B	6	L677	B	86	175	11D	11	N228-C				5A	3
L546	B	45	129	6B	6	L678	B	72	175	9C	11	N235-A	B	76	46	8C	3
L547	B	55	134	7B	6	L679	B	80	182	10D	11	N235-B				4A	3
L548	B	52	129	6B	6	L705	B	166	134	3C	8	N275-A	B	167	34	2D	3
L549	B	82	130	7B	6	L706	B	178	135	3C	8	N275-B				2D	3
L550	B	26	129	6B	6	L709	B	166	121	4C	8	N275-C				5A	3
L551	B	33	137	7B	6	L714	B	169	101	5C	8	N276-A	B	111	41	3C	3
L553	B	89	135	7C	6	L720	B	181	126	4D	8	N276-B				4B	3
L559	B	97	135	8B	6	L727	A	170	107	5E	8	N276-C				6A	3
L560	B	105	138	8B	6	L730	B	183	112	5D	8	N300	B	17	55	9D	4
L561	B	118	136	9B	6	L732	B	181	97	7C	8	N360	B	17	72	11D	4
L562	B	124	136	9B	6	L738	B	192	100	7D	8	N600-A	A	210	70	2C	7
L563	B	141	133	9B	6	L739	B	192	110	8D	8	N600-B				2B	7
L564	B	121	130	9B	6	L740	B	205	138	9D	8	N600-C				3B	7
L565	B	102	128	9B	6	L742	B	211	121	9E	8	N600-D				3A	7
L566	B	141	128	9B	6	L748	B	205	128	9D	8	N600-E				6A	7
L568	B	87	114	10C	6	L754	A	234	127	11D	8	N610-A	A	193	70	3C	7
L570	B	99	110	10B	6	L755	A	157	150	2B	12	N610-B				5A	7
L571	B	108	117	11B	6	L756	A	145	150	2B	12	N740	B	194	134	8D	8
L572	B	117	119	11B	6	L765	B	98	185	2E	12	N776-A	A	146	168	6C	12
L580	B	124	119	11C	6	L766	B	107	175	3D	12	N776-B				6B	12
L583	B	133	117	11C	6	L767	B	137	185	4E	12	N776-C				4A	12
L584	B	141	110	11D	6	L768	B	141	188	4E	12	N777-A	A	146	156	6C	12
L585	A	99	74	2A	6	L770	B	259	189	11E	12	N777-B				6B	12
L600	B	174	86	2F	7	L771	B	276	169	11E	12	N777-C				3A	12
L601	B	180	82	2E	7	L800	B	294	142	5E	9	N778-A	A	146	179	6C	12
L602	B	171	67	2D	7	L801	B	276	130	5F	9	N778-B				6B	12
L604	A	171	64	4C	7	L816	B	284	110	6D	9	N778-C				3A	12
L608	B	218	73	4E	7	L817	B	293	187	8E	9	N840-A	A	286	81	6B	9
L610	B	220	82	5E	7	L818	B	295	73	8E	9	N840-B				10B	9
L612	A	129	162	2B	11	L819	B	291	86	8E	9	N840-C				11B	9
L613	A	106	155	2A	11	L829	B	299	34	10E	9	N840-D				11C	9
L630	B	257	69	7D	7	L830	B	297	47	10E	9	N840-E				6A	9
L632	B	266	69	8D	7	L831	B	242	124	10E	9	N845-A	A	283	33	7B	9
L633	B	243	70	7D	7	L840	A	158	105	3B	9	N845-B				7A	9
L642	B	268	99	9E	7	L841	A	157	124	3A	9	P300	B	86	36	6C	3
L643	B	239	77	9E	7	L845	B	277	17	9B	9	P305	B	67	39	10C	3
L645	B	213	98	10D	7	L880	B	257	109	6F	9	P352	B	59	21	11D	3
L647	B	204	107	11D	7	L885	A	156	135	3B	9	P353	B	62	21	12E	3
L649	B	218	107	11D	7	N20-A	B	225	41	9B	10	P375	B	155	34	2D	3
L650	B	224	110	11D	7	N20-B				10B	10	P380	B	119	41	4C	3
L651	B	233	108	12D	7	N20-C				7D	2	P385	B	109	50	5C	3
L660	A	157	88	3F	7	N20-D				7C	2	P600	B	186	62	3C	7
L661	A	171	83	4F	7	N20-E				5A	2	P601	B	187	85	3C	7

ROHDE & SCHWARZ	-I	Datum Date	XY-Liste für XY-list for	Sach-Nummer Stock-Nr	Blatt Page
	03	17.06.96	EE AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ	1062.7005.01 XY	4+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
P620	B	222	72	4B	7	R123	A	197	45	7A	10	R308	B	22	17	3D	4
P621	B	223	70	4A	7	R124	A	194	45	7A	10	R310	B	42	23	3D	4
P628	B	177	64	4C	7	R130	B	128	57	10D	10	R312	B	37	20	3D	4
P848	B	277	32	7C	9	R131	B	225	37	9B	10	R313	A	18	28	5C	4
P866	B	297	23	8B	9	R132	B	232	36	9B	10	R314	B	41	32	5D	4
R1	A	119	17	2F	2	R133	B	236	47	8B	10	R315	B	46	36	4C	4
R9	A	226	55	7D	2	R134	B	250	173	10C	10	R316	B	45	27	5C	4
R10	B	219	50	7C	2	R149	B	200	36	7C	10	R317	B	12	44	5C	4
R11	A	229	51	7D	2	R160	B	125	44	5E	10	R318	B	15	44	6C	4
R12	B	222	46	7C	2	R161	A	139	47	5E	10	R319	A	21	34	6C	4
R13	B	212	51	8C	2	R162	B	125	47	5E	10	R320	A	15	30	5C	4
R14	B	212	53	8B	2	R163	B	146	53	5E	10	R321	A	20	37	6C	4
R15	B	222	50	7C	2	R165	B	99	56	8E	10	R325	B	34	41	6E	4
R16	A	210	40	11C	2	R166	B	104	56	8E	10	R327	A	21	48	7D	4
R17	B	110	30	3F	2	R167	B	102	56	8E	10	R328	A	23	41	7D	4
R20	B	143	17	2D	2	R168	B	106	41	8E	10	R329	B	46	41	6C	4
R21	B	142	29	3D	2	R170	B	88	23	9E	10	R330	A	21	50	7C	4
R22	B	181	17	2D	2	R171	B	85	23	9E	10	R332	B	46	38	7C	4
R23	B	188	29	3D	2	R172	B	85	30	9E	10	R333	A	26	44	7C	4
R24	B	193	17	2C	2	R173	B	86	19	9E	10	R340	B	41	44	8C	4
R25	B	199	27	3C	2	R206	B	171	41	1D	3	R341	B	43	53	8C	4
R26	B	209	27	3C	2	R207	B	82	53	5D	3	R342	B	44	47	8C	4
R27	B	164	17	2C	2	R208	B	72	53	5E	3	R355	B	17	56	9D	4
R28	B	176	33	3C	2	R209	B	54	30	8D	3	R356	B	38	59	10E	4
R29	B	156	17	2B	2	R211	B	70	53	5E	3	R357	B	36	57	10E	4
R30	B	166	29	3B	2	R212	B	82	51	7C	3	R360	B	42	89	11E	4
R31	B	172	17	2B	2	R213	B	68	47	8D	3	R361	B	55	89	11E	4
R32	B	178	33	3B	2	R214	B	74	31	8E	3	R400	B	45	81	2D	5
R33	B	150	17	2B	2	R215	A	60	37	9E	3	R401	B	55	84	2C	5
R34	B	156	30	3B	2	R216	B	60	37	8E	3	R402	B	48	79	2C	5
R35	A	241	21	7A	2	R218	B	71	21	10D	3	R404	A	37	84	4D	5
R36	A	181	17	2C	2	R220	B	64	34	11B	3	R405	A	28	82	4D	5
R38	A	218	43	10C	2	R221	B	67	33	9D	3	R406	A	33	81	4C	5
R41	B	234	29	8E	2	R240	B	55	12	11E	3	R407	A	29	91	4C	5
R42	B	231	29	8E	2	R241	B	66	13	11E	3	R408	B	42	86	3C	5
R43	B	229	29	8E	2	R259	B	79	48	8C	3	R409	B	32	91	4C	5
R44	B	236	29	8E	2	R271	A	168	37	2D	3	R410	A	42	74	4E	5
R45	B	229	14	8E	2	R272	A	161	36	3D	3	R411	A	44	69	4E	5
R46	B	236	14	8E	2	R275	B	156	41	1C	3	R412	A	37	68	4E	5
R47	B	231	14	8E	2	R276	B	173	33	2D	3	R416	B	85	73	6E	5
R48	B	234	14	8E	2	R278	B	171	36	2D	3	R417	B	75	70	6E	5
R49	B	221	30	9E	2	R280	B	129	42	3C	3	R431	A	99	101	10E	5
R50	B	239	32	9E	2	R283	B	119	43	4B	3	R432	A	129	113	10E	5
R51	B	221	28	9E	2	R284	B	121	50	4C	3	R433	A	131	102	10D	5
R52	B	221	25	9E	2	R285	B	115	50	4C	3	R434	A	71	105	10D	5
R53	B	221	15	9E	2	R286	A	91	44	7B	3	R435	A	103	112	10D	5
R54	B	221	23	9E	2	R299	A	60	39	9E	3	R436	A	112	122	10C	5
R55	B	221	18	9E	2	R300	B	42	17	2D	4	R437	A	108	135	10C	5
R56	B	221	20	9E	2	R301	B	39	17	2D	4	R438	A	71	119	10C	5
R116	B	197	49	3F	10	R302	B	37	17	2D	4	R440	A	144	130	10B	5
R117	A	157	63	7A	10	R303	B	34	17	2D	4	R442	A	133	108	11D	5
R119	B	238	47	8B	10	R304	B	32	17	2D	4	R443	A	67	113	11C	5
R120	B	180	48	2F	10	R305	B	29	17	2D	4	R450	A	140	95	11D	5
R121	A	168	51	4E	10	R306	B	27	17	3D	4	R451	A	60	102	11D	5
R122	B	82	60	7E	10	R307	B	24	17	3D	4	R452	A	88	109	11D	5
ROHDE & SCHWARZ	-I		Datum Date	XY-Liste für XY-list for				Sach-Nummer Stock-Nr				Blatt Page					
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Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R453	A	95	119	11D	5	R648	A	241	88	9E	7	R709	A	166	114	3C	8
R454	A	95	135	11C	5	R649	B	247	98	9D	7	R710	A	168	120	4C	8
R455	A	81	114	11C	5	R650	B	89	190	10C	11	R720	A	183	139	3D	8
R500	A	80	83	2F	6	R651	A	187	81	2C	7	R721	A	178	130	4D	8
R501	A	77	83	2F	6	R652	B	184	78	2C	7	R723	B	183	130	4E	8
R502	A	75	83	2F	6	R653	A	206	82	1C	7	R724	B	181	123	4E	8
R503	B	75	83	3E	6	R654	A	202	79	1B	7	R725	A	248	126	10E	8
R520	A	145	113	9F	6	R655	B	245	101	9D	7	R726	A	243	138	10E	8
R521	A	143	113	9F	6	R656	B	91	190	11C	11	R727	A	237	124	10E	8
R522	A	148	113	9F	6	R657	A	221	80	3B	7	R728	A	238	135	10E	8
R530	B	69	93	2C	6	R658	A	223	75	3B	7	R730	B	177	112	5C	8
R600	B	164	79	2D	7	R659	B	95	184	11C	11	R731	B	183	102	6D	8
R601	B	178	82	2E	7	R660	A	190	77	2C	7	R732	B	183	93	7D	8
R602	A	184	79	2E	7	R661	B	34	161	5D	11	R733	A	101	190	11C	11
R603	A	181	75	2E	7	R662	B	39	157	5D	11	R734	A	177	97	6C	8
R604	B	189	72	2D	7	R663	B	19	152	5D	11	R735	A	182	105	6C	8
R605	B	164	73	2D	7	R670	B	115	161	3D	11	R736	A	222	120	10D	8
R607	A	193	83	3D	7	R671	B	119	164	3E	11	R737	A	223	135	10D	8
R608	B	192	74	2D	7	R672	B	71	164	4D	11	R738	A	76	187	10E	11
R609	B	187	82	2D	7	R673	B	84	164	4E	11	R739	B	98	188	12C	11
R611	A	180	64	4C	7	R674	B	50	150	4D	11	R740	B	194	134	8D	8
R612	A	178	67	3C	7	R675	B	41	147	5C	11	R741	A	194	134	9D	8
R613	A	197	66	3C	7	R676	B	47	151	5D	11	R742	A	191	135	9D	8
R614	A	194	77	3C	7	R677	B	17	155	6C	11	R743	A	191	129	9E	8
R615	A	197	77	3C	7	R678	B	17	164	6C	11	R745	B	210	124	9C	8
R616	A	202	69	2B	7	R679	B	21	158	6D	11	R747	A	217	130	11D	8
R618	A	194	86	2C	7	R680	B	36	171	7D	11	R748	A	216	124	11D	8
R619	B	198	79	2C	7	R681	B	46	174	7E	11	R750	A	208	130	11E	8
R620	A	196	81	2B	7	R682	B	49	185	7D	11	R751	A	201	123	11E	8
R621	B	231	80	5E	7	R683	B	63	187	8D	11	R753	A	201	133	11E	8
R622	B	186	69	3E	7	R684	B	65	187	8D	11	R754	A	196	120	11E	8
R623	B	231	77	6E	7	R685	A	48	190	8E	11	R755	A	203	126	11E	8
R624	B	231	74	6E	7	R686	A	42	187	8E	11	R760	B	228	121	11C	8
R625	B	231	72	6E	7	R687	B	75	182	9C	11	R761	B	236	109	11C	8
R626	B	228	69	6D	7	R688	B	83	190	8C	11	R762	A	182	113	7E	8
R627	B	230	66	6D	7	R689	A	79	190	9C	11	R765	B	100	185	2E	12
R628	B	230	64	6D	7	R690	B	70	189	9C	11	R766	A	100	177	2D	12
R629	B	186	67	3E	7	R691	B	53	172	10C	11	R767	A	113	181	2C	12
R630	B	264	24	5C	7	R692	A	75	177	9C	11	R768	B	119	182	2D	12
R631	B	264	15	5B	7	R693	A	69	172	10C	11	R769	A	104	171	2D	12
R632	B	241	64	6D	7	R694	A	70	182	9C	11	R770	B	119	180	3D	12
R633	A	212	63	2C	7	R695	A	58	175	10C	11	R771	A	111	174	3C	12
R634	B	264	21	5C	7	R696	A	89	183	10C	11	R772	B	109	185	3D	12
R635	A	206	72	2A	7	R697	A	91	183	11C	11	R773	A	118	185	3C	12
R636	A	206	74	2B	7	R698	A	83	178	10C	11	R774	B	121	188	3C	12
R637	A	213	85	3B	7	R699	A	89	173	11C	11	R776	B	124	182	4E	12
R638	A	213	83	3A	7	R700	B	154	111	2D	8	R777	B	135	185	4E	12
R639	A	217	83	3A	7	R701	B	154	121	2D	8	R779	A	187	149	6C	12
R640	B	258	46	6C	7	R702	B	153	124	3D	8	R780	A	232	166	6B	12
R641	B	269	69	8D	7	R703	B	225	138	10C	8	R781	A	191	156	6C	12
R642	B	243	67	7D	7	R704	A	150	126	2D	8	R782	A	207	179	6B	12
R644	B	264	88	8D	7	R705	A	142	122	3E	8	R783	A	172	168	6C	12
R645	B	252	80	9D	7	R706	B	169	128	4C	8	R784	A	205	187	6B	12
R646	B	249	79	9D	7	R707	B	169	118	4C	8	R785	B	197	148	6E	12
R647	B	241	81	9E	7	R708	B	215	138	10C	8	R786	B	197	154	6D	12

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	03	17.06.96	EE AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ	1062.7005.01 XY	6+

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
R787	B	168	170	7C	12	R850	A	288	110	5B	9	V404	A	23	77	4C	5
R788	B	203	190	8C	12	R851	B	293	93	5B	9	V405	A	22	91	4C	5
R789	B	206	179	8D	12	R852	A	295	89	5B	9	V410	B	54	72	6D	5
R790	B	234	164	8E	12	R853	B	285	75	8D	9	V411	A	40	66	4E	5
R791	B	276	182	11E	12	R854	A	287	72	5B	9	V431	A	102	95	11E	5
R792	B	273	189	11E	12	R855	A	287	70	6B	9	V432	A	124	95	11E	5
R793	A	140	182	5D	12	R856	A	277	26	7B	9	V433	A	132	96	11D	5
R794	A	142	182	5A	12	R857	A	288	41	7B	9	V434	A	65	103	11D	5
R800	B	271	147	2D	9	R858	A	291	112	5B	9	V435	A	96	109	11D	5
R801	B	263	158	3D	9	R859	A	288	107	5B	9	V436	A	106	118	11C	5
R802	A	275	149	2E	9	R860	B	283	75	8D	9	V437	A	101	134	11C	5
R803	A	262	148	3E	9	R861	A	295	43	8B	9	V438	A	75	115	11C	5
R804	A	276	161	3E	9	R862	A	283	79	5C	9	V500	B	71	84	2E	6
R805	A	265	158	3E	9	R863	A	295	46	8B	9	V511	B	99	77	4E	6
R806	A	271	169	3F	9	R866	A	277	47	6C	9	V512	B	103	77	5E	6
R807	A	261	166	3F	9	R867	B	283	32	7C	9	V514	B	109	75	6E	6
R808	B	286	107	7D	9	R868	A	277	35	7C	9	V515	B	123	77	6E	6
R809	B	294	130	5D	9	R869	A	282	41	8C	9	V516	B	131	75	7E	6
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R815	B	291	127	5D	9	R874	A	296	76	11C	9	V535	B	63	105	3B	6
R816	B	274	110	6D	9	R875	A	300	71	10C	9	V536	B	70	113	3B	6
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R818	B	284	117	6D	9	R880	B	288	92	7E	9	V540	B	78	124	5B	6
R819	B	282	101	7D	9	R882	A	293	160	7F	9	V543	B	82	125	7B	6
R820	A	278	107	7E	9	R887	A	264	136	10E	9	V544	B	96	127	7B	6
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R827	A	278	172	7F	9	V12	B	217	53	8C	2	V606-B				2B	7
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R830	B	281	66	9D	9	V15	B	105	34	3F	2	V612	B	242	95	9D	7
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R849	B	276	57	10D	9	V400	B	33	80	4D	5	V718	A	225	139	10D	8
ROHDE & SCHWARZ	-I	Datum Date	XY-Liste für XY-list for				Sach-Nummer Stock-Nr				Blatt Page						
	03	17.06.96	EE AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ				1062.7005.01 XY				7+						

Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg	Part	Side	X	Y	Sqr	Pg
V720	B	182	136	4D	8	V787	B	222	186	8D	12	V875-B				8E	11
V725	B	183	116	5E	8	V801	B	284	157	4D	9	V876	B	84	175	11D	11
V730	B	181	109	6D	8	V802	A	277	149	2E	9	V877	B	75	175	9D	11
V735	B	190	96	7D	8	V803	A	262	156	3E	9	VC1	B	126	36	4E	2
V745	A	215	134	11D	8	V804	A	275	159	3E	9	VC2	B	116	35	4E	2
V746	A	213	120	12D	8	V805	A	265	156	3E	9	W1A	B	210	135	10B	8
V747	A	210	128	11E	8	V814	A	284	160	7F	9	W1B	B	210	135	1D	11
V748	A	207	123	11E	8	V815	A	298	169	7E	9	X2A	B	189	11	2C	2
V750	A	193	124	11E	8	V816	A	289	174	7E	9	X2B	B	189	11		
V751	A	196	126	11E	8	V817	B	284	101	7D	9	X205	B	70	40	10B	3
V752	A	200	130	11E	8	V827	A	261	126	9F	9	X224	B	17	15	1D	4
V753	A	191	124	11E	8	V828	A	287	167	8F	9	X225	B	258	15	5B	7
V765	A	113	184	2C	12	V829	A	285	169	7F	9	X226	B	283	15	12D	9
V766	A	119	173	3C	12	V830	A	264	116	9E	9	Z1	B	118	20	2E	2
V768	B	103	173	2D	12	V831	A	256	116	9E	9	Z2	B	131	17	2E	2
V769	B	123	175	4D	12	V832	B	283	65	9D	9	Z3	B	100	20	2D	2
V770	B	183	148	6E	12	V833	A	259	135	9F	9	Z4	B	141	20	2D	2
V771	B	183	157	6D	12	V834	A	257	138	10F	9	Z5	B	187	20	2D	2
V772	B	172	163	6D	12	V844-A	B	286	26	8C	9	Z6	B	194	20	2C	2
V773	B	237	177	8E	12	V844-B				7C	9	Z7	B	169	20	2C	2
V774	B	214	179	8D	12	V850-A	A	285	45	7B	9	Z8	B	164	20	2B	2
V775	B	214	186	8D	12	V850-B				6B	9	Z9	B	174	20	2B	2
V780	B	265	183	11D	12	V853	A	291	77	6C	9	Z10	B	146	20	2B	2
V782	B	174	148	6E	12	V857	A	288	30	7B	9	Z11	B	113	20	2F	2
V783	B	175	150	6D	12	V870	A	277	92	10B	9	Z20	B	126	17	2E	2
V784	B	172	151	6D	12	V871	B	271	112	10B	9	Z700	B	222	149	7E	12
V785	B	224	183	8E	12	V874	B	35	181	6D	11	Z710	B	197	164	7D	12
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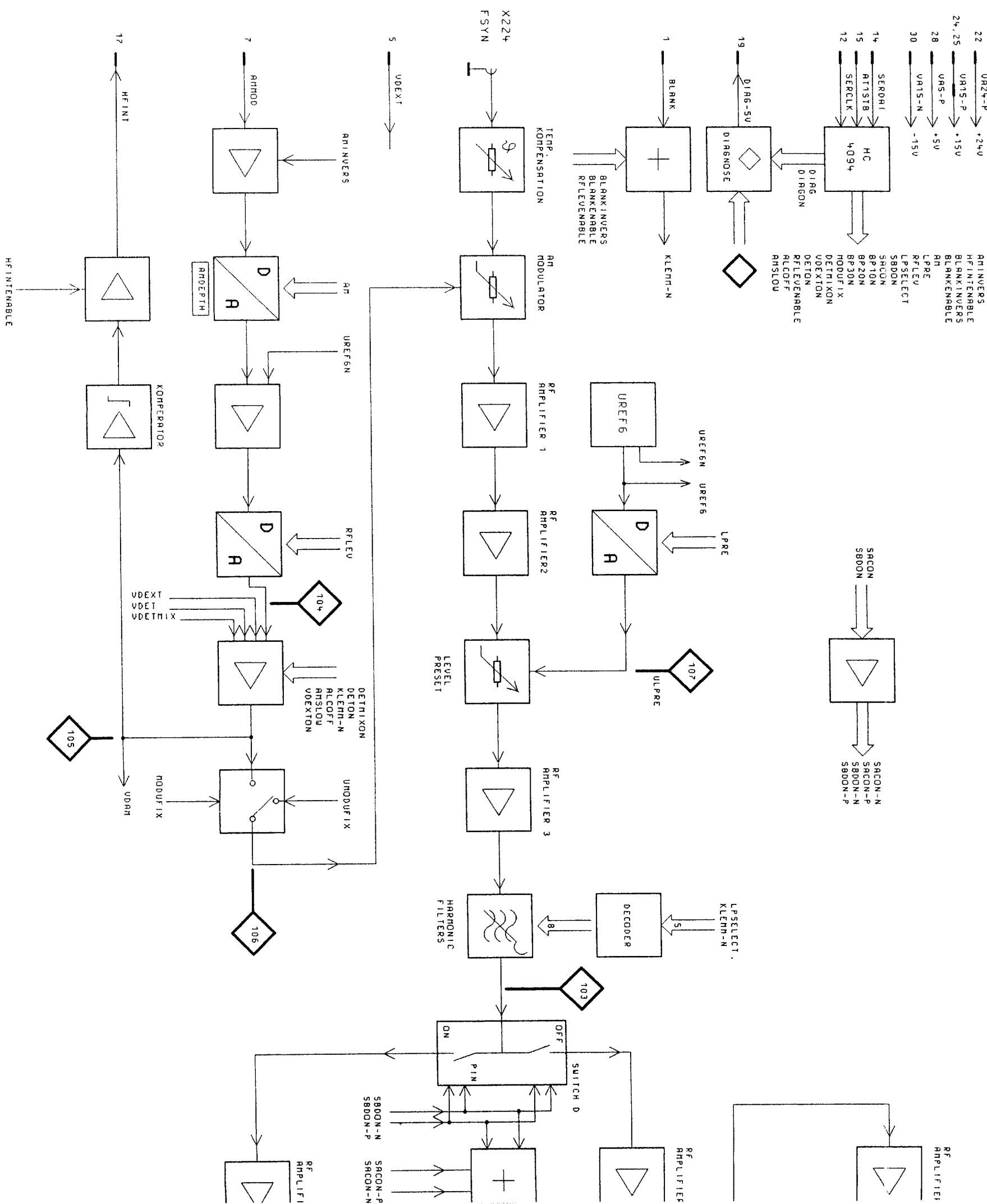
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	03	17.06.96	EE AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ	1062.7005.01 XY	8-



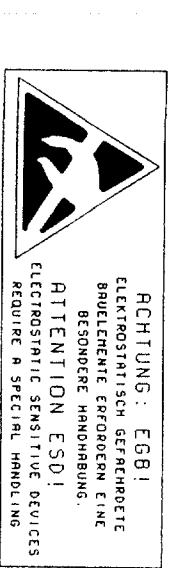
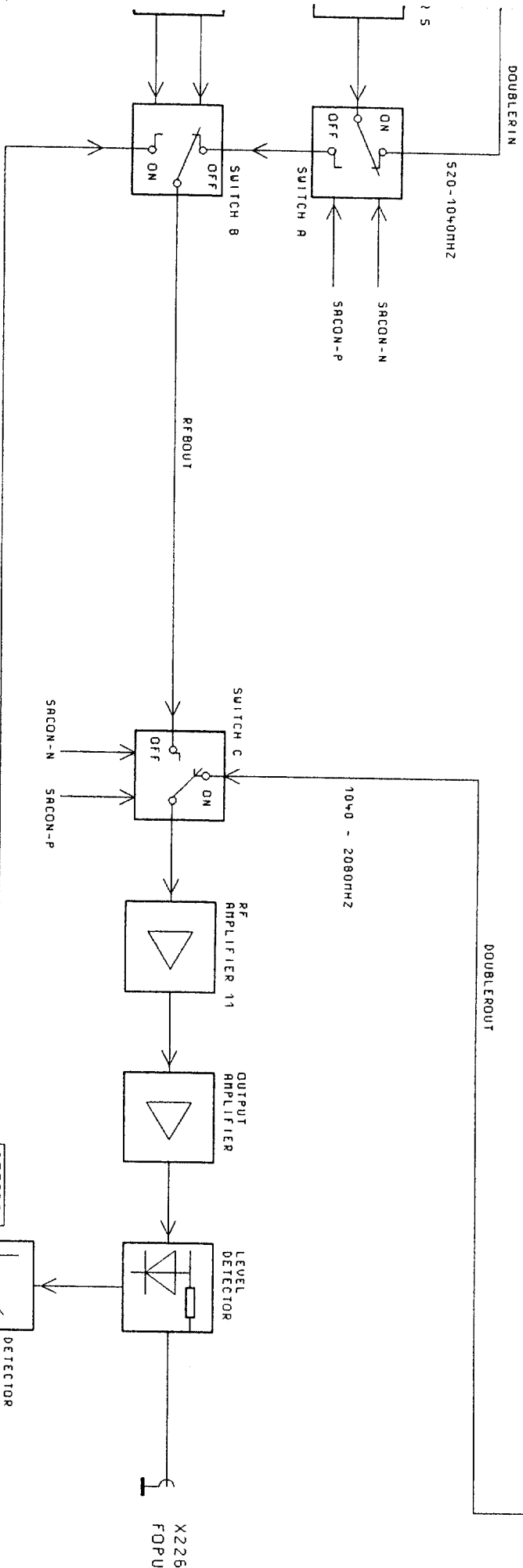
ROHDE & SCHWARZ

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

11, 13, 18,
20, 21, 23,
27, 29, 31
GND



BLINDEN ANGEHEN UEBER VARIANTEN.
TRIMMTE, BRUTELIERTE UND
NICHT BESTUECKTE BRUTELLE SIEHE SA.
FÜR BINDUNG INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.



04/02		03.03.97	E I	TEMP	TRG	NAME	BENENNUNG
				BERRA.		E I	AUSGANGSTEIL 2.086GHZ OUTPUT UNIT 2.086GHZ
				SEPR.			
				NOHM			
				PLOTT	03.03.97		
04/01		16.12.96	E I	 ROHDE&SCHWARZ			ZEICHN.-NR.
REND. IND.	RENDERUNGS- MITTEILUNG	DATUM	NAME				1062.7005.01S
							BLATT-NR. 1+

AUSGANGSTEIL 2.08GHZ
OUTPUT UNIT 2.08GHZ

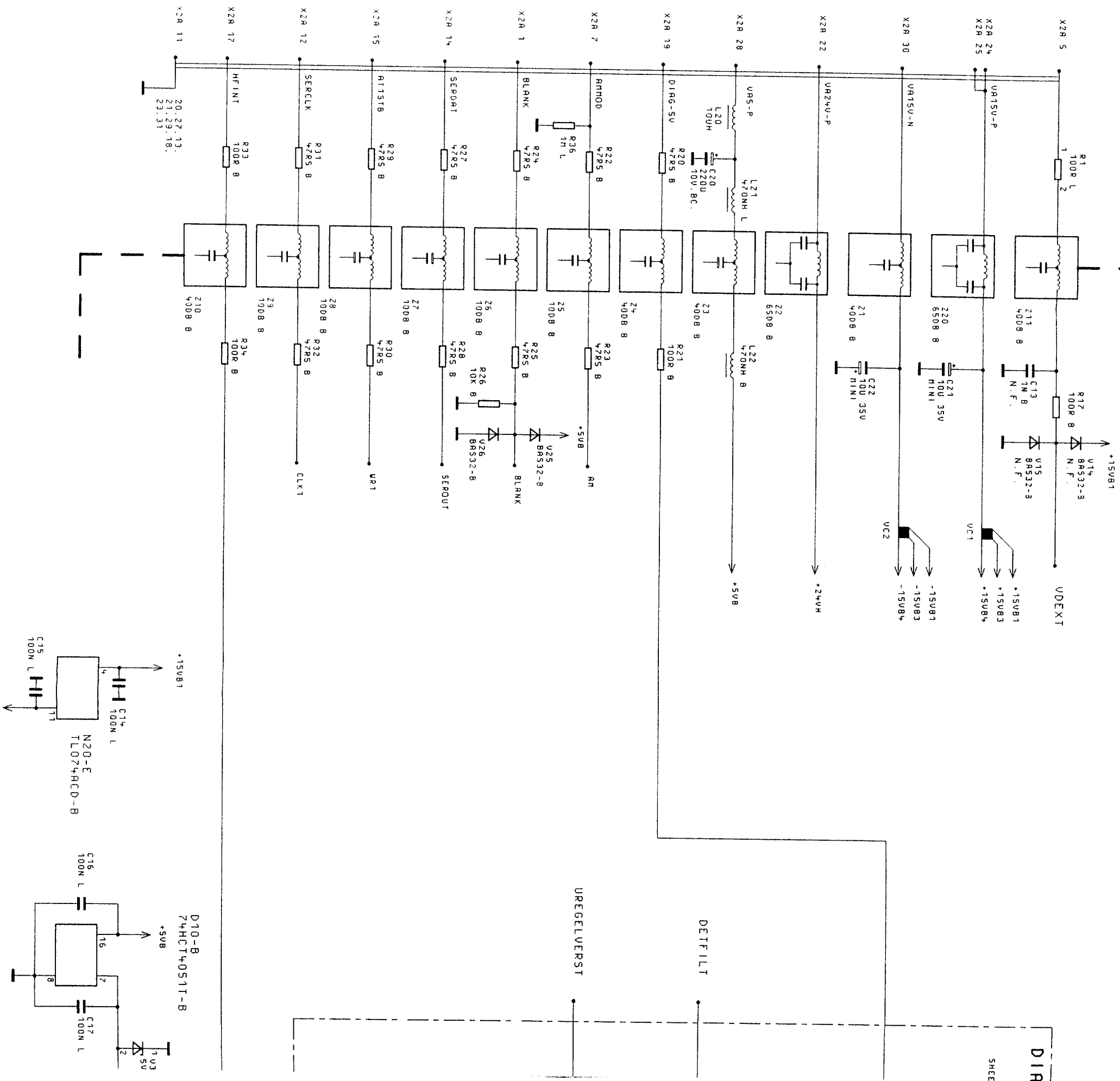
OUTPUT UNIT 2.086GHZ

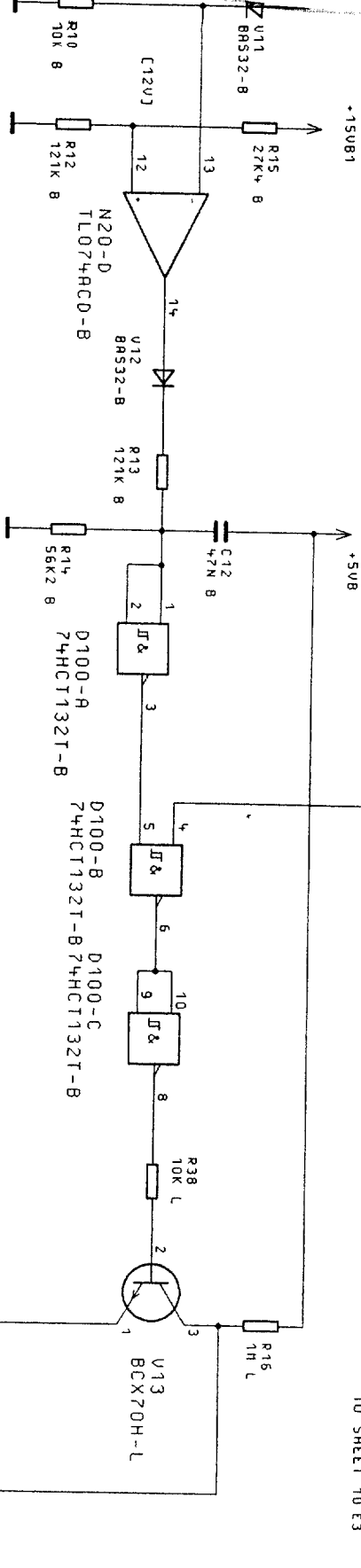
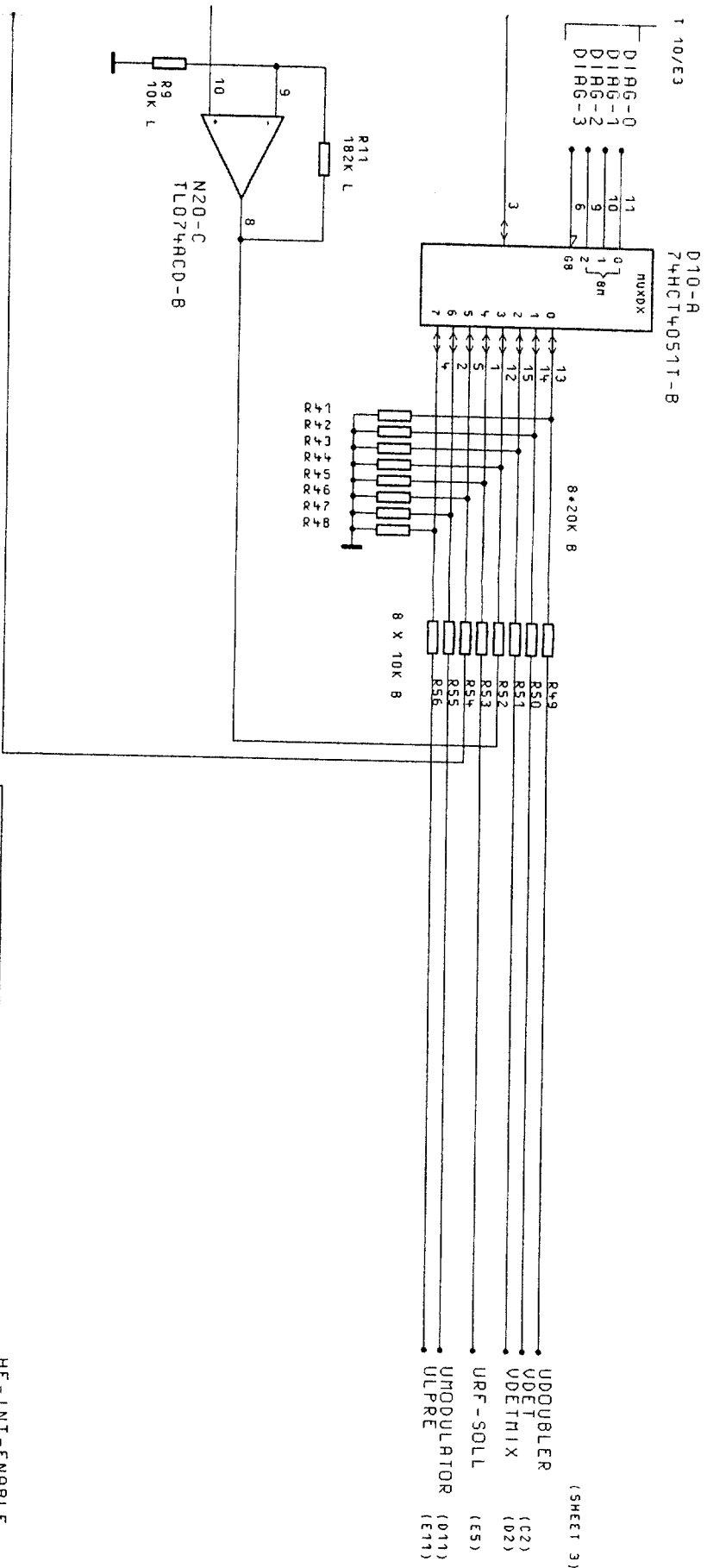
ZEICHN.-NR.

1062.7005.015

BLAIT-MR.

	R
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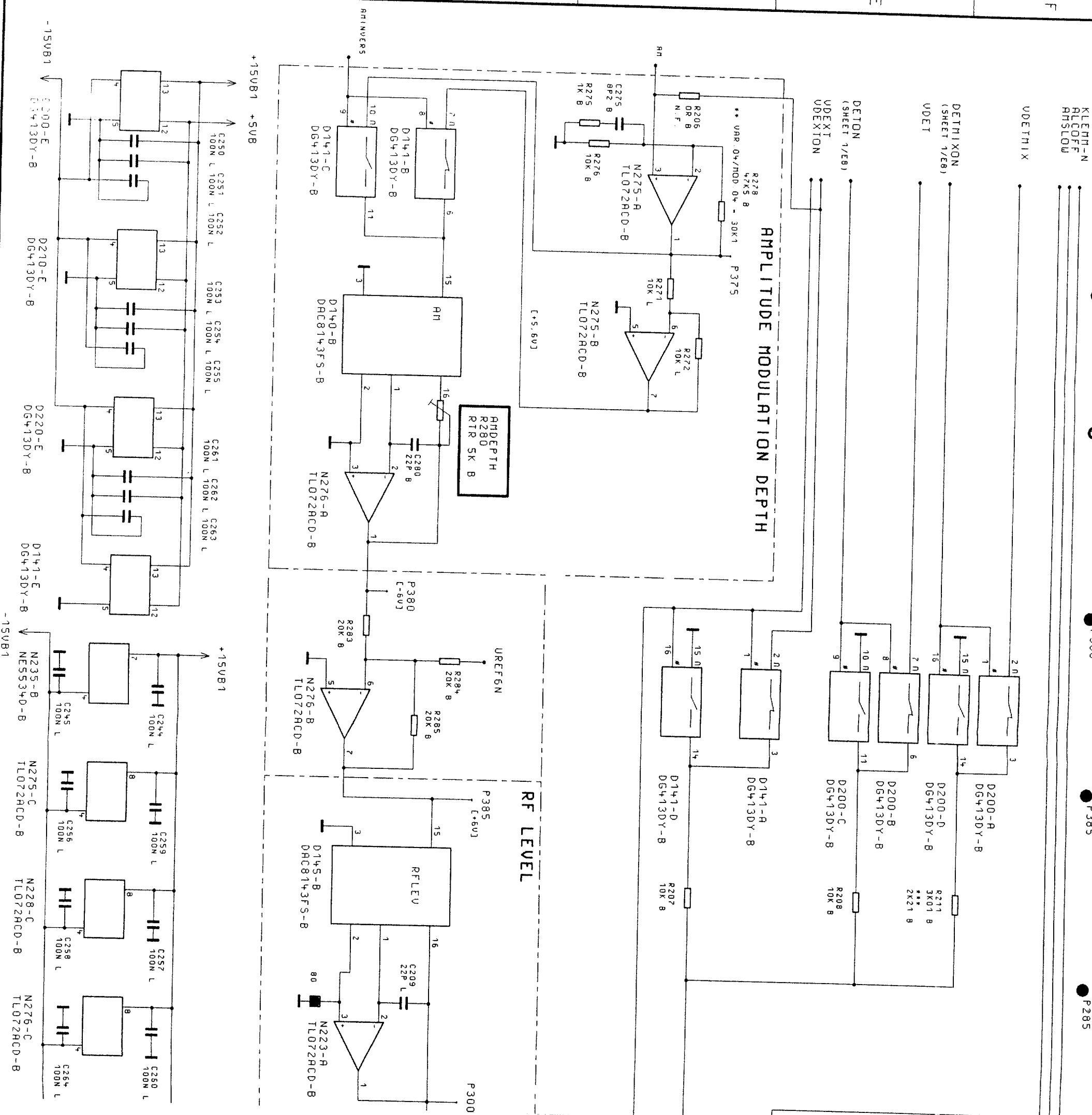
N.F. - NOT FITTED / NICHT BESTUECKT

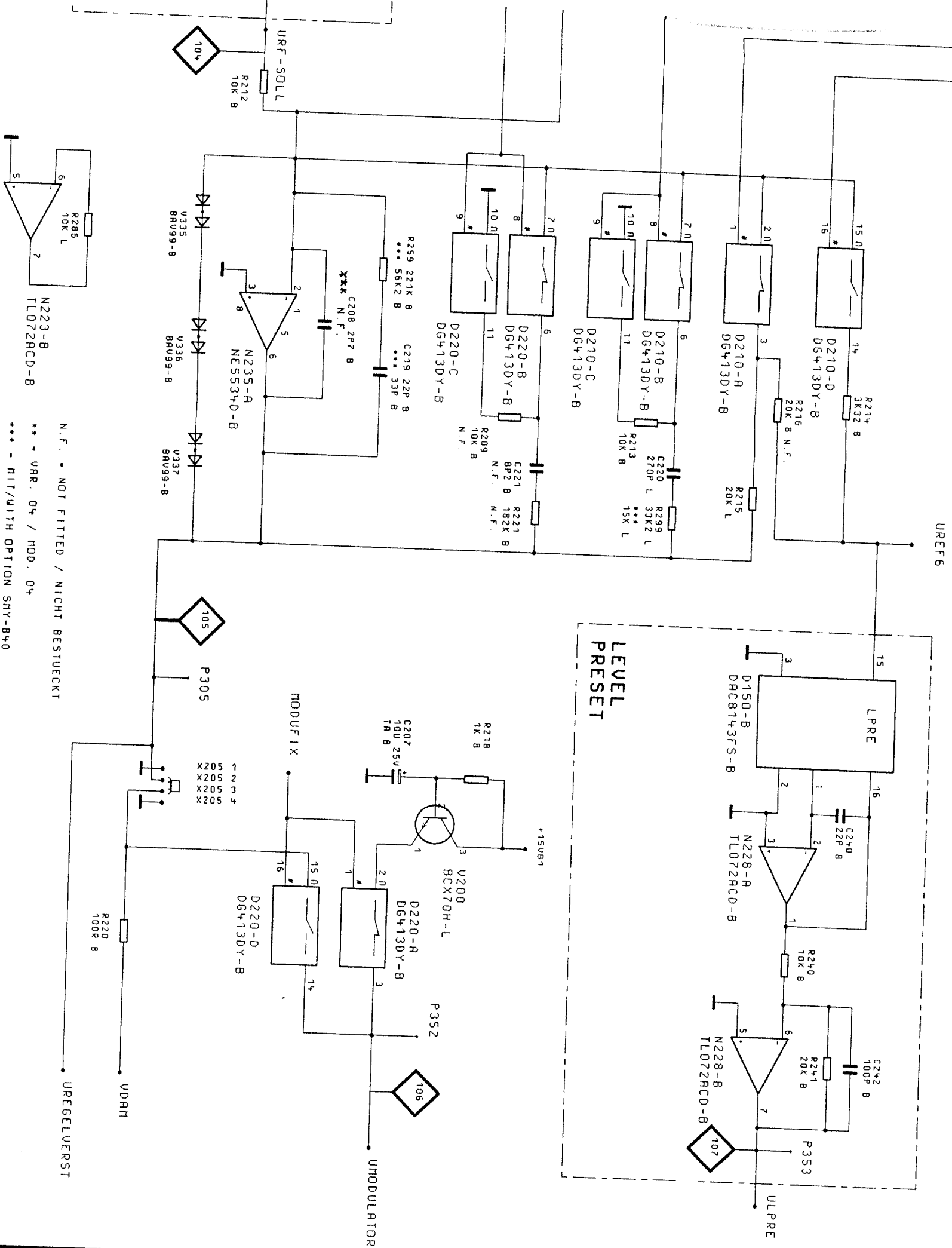
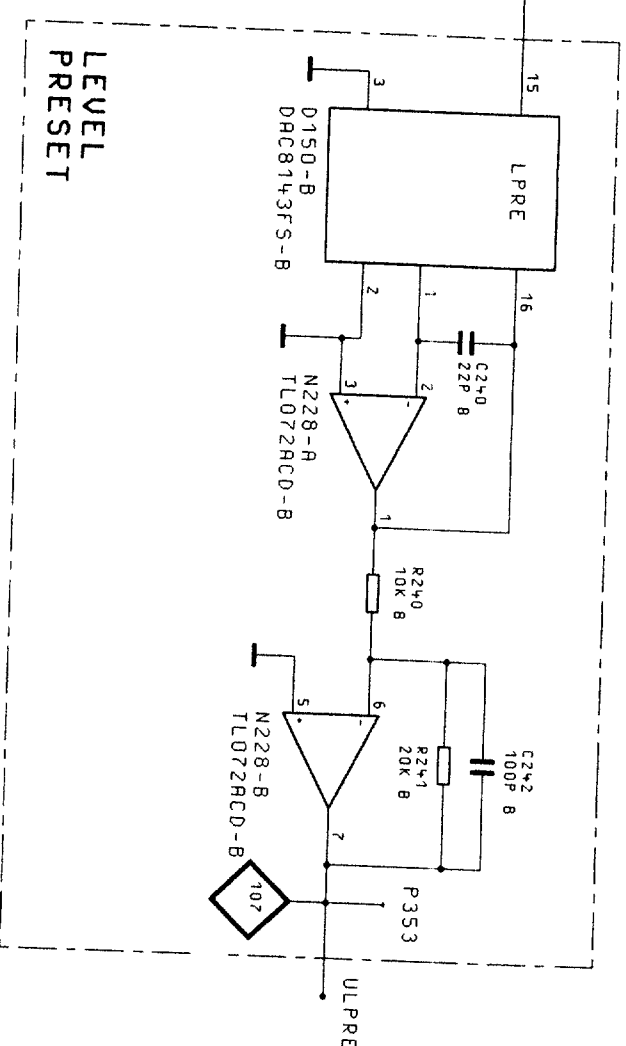
BRINDEDE ANGEBEN UEBER VARIANTEN,
TRIMMVERTE, BRUTELVERTE UND
NICHT BESTUECKTE BRUTELLE SIEHE SA.

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

04/02	03.03.97	E I	MENP	TA6	NAME	BENENNUNG	
			BEARB.		E I		
			GEPR.			AUSGANGSTEIL 2.086GHZ	
			MORN			OUTPUT UNIT 2.086GHZ	
			PL011	03.03.97			
04/01	16.12.96	E I				ZEICHN.-NR.	BLATT-NR.
RENDERUNGS- MITTEILUNG	DATUM	NRHE	5		ROHDE&SCHWARZ		
						1062.7005.015	2 +
							V. BL.

ZEICHN. - NR.





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N.F. - NOT FITTED / NIGHT BESTUECKT
** - VAR. 04 / MOD. 04
*** - HIT/WITH OPTION SMY-B40

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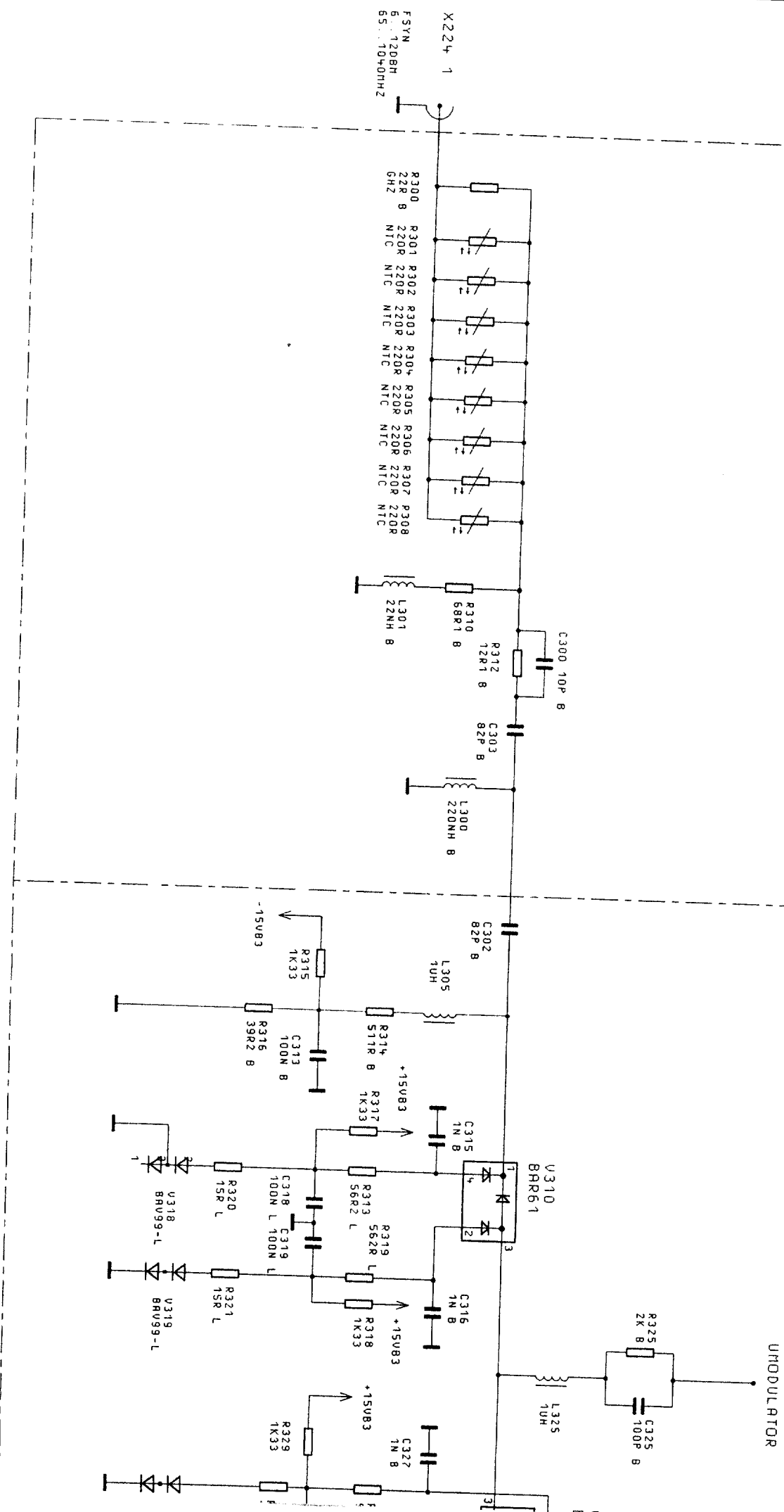
BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA

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

04/02		03.03.97	E I	MEMP	TR6	NAME	BENENNUNG AUSGANGSTEIL 2.08GHZ OUTPUT UNIT 2.08GHZ	ZEICHN.-NR. 1062.7005.01S	BLATT-NR. 3 +
				BEARB.		E I			
				GEPR.					
				NORM					
				PLOTT	03.03.97				
04/01		16.12.96	E I	P S			ROHDE&SCHWARZ	7th EFFORT	SHY
BEND. IND.	RENDERUNGS-MITTELLUNG	DATUM	NAME						

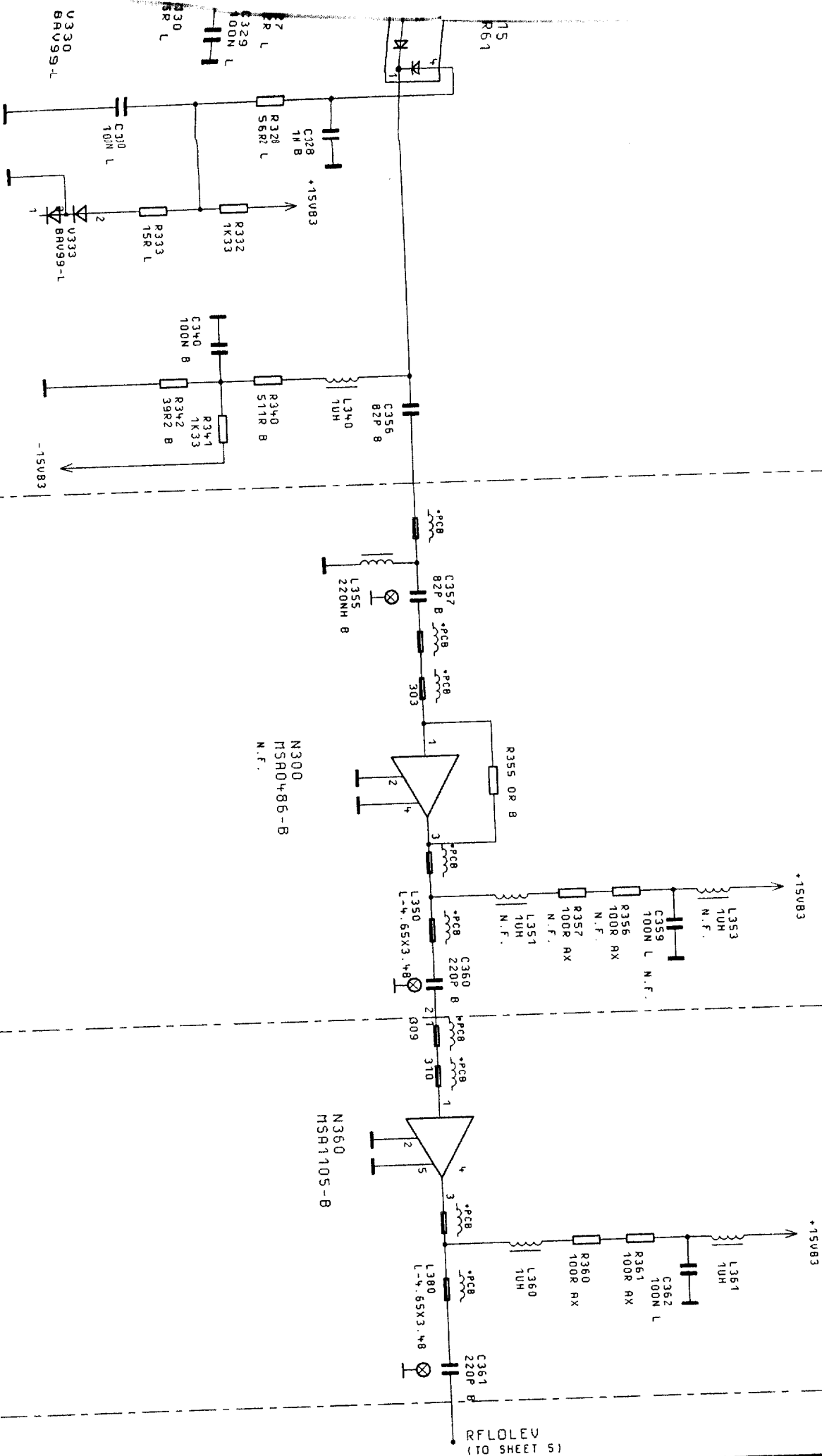
TEMP.-KOMPENSATION

AM MODULATOR



RF AMPLIFIER 1

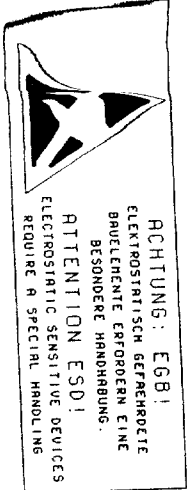
RF AMPLIFIER 2



N. F. . NOT FITTED / NICHT BESTUECKT

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMIERTE, BAUTEILNUMERIE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

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



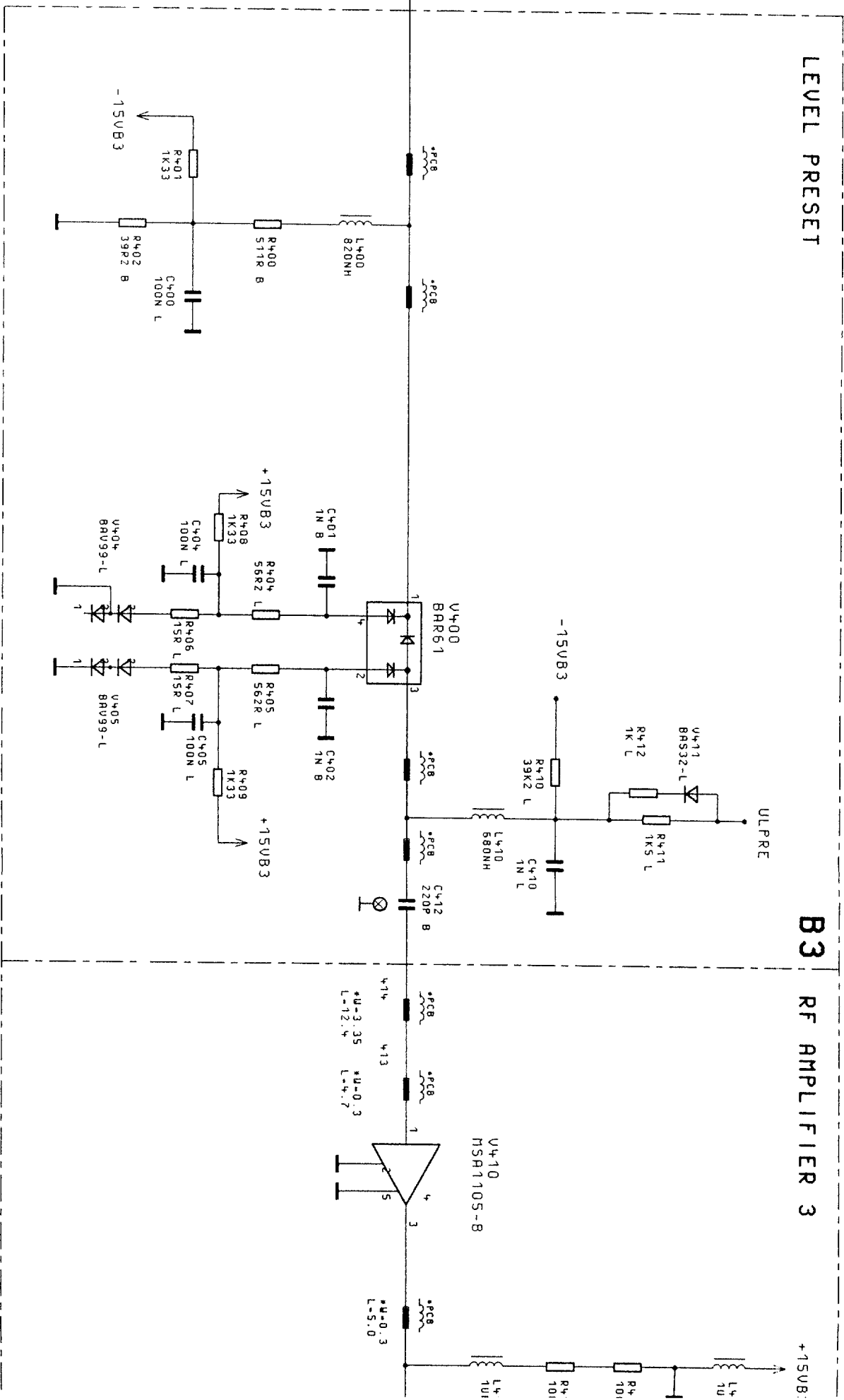
ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDICHTE
BAUTEILE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

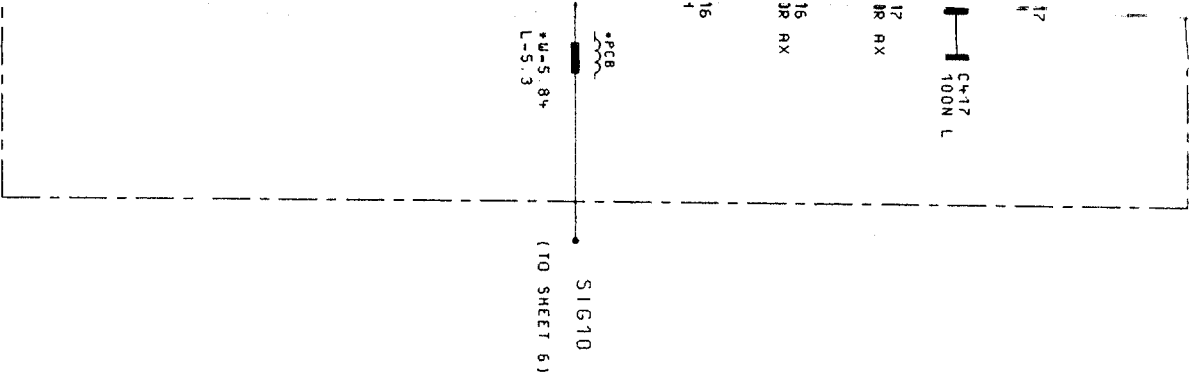
04/02	03.03.97	E I	ME NP	TAG	NAME	BENENNUNG AUSGANGSTEIL 2.086GHZ OUTPUT UNIT 2.086GHZ	
			BEARB.		E I		
			GEPR.				
			NO RM				
			PLOTT	03.03.97			
04/01	16.12.96	E I	ROHDE&SCHWARZ		ZEICHN.-NR.	1062.7005.01S	BLATT-NR. 4+
REND.	RENDERUNGS-	DATUM			1062.5502	1062.5502	BL.
IND.	MITTEILUNG	NAME	ZU GEHÖRT	SMY	1062.5502	1062.5502	

LEVEL PRESET

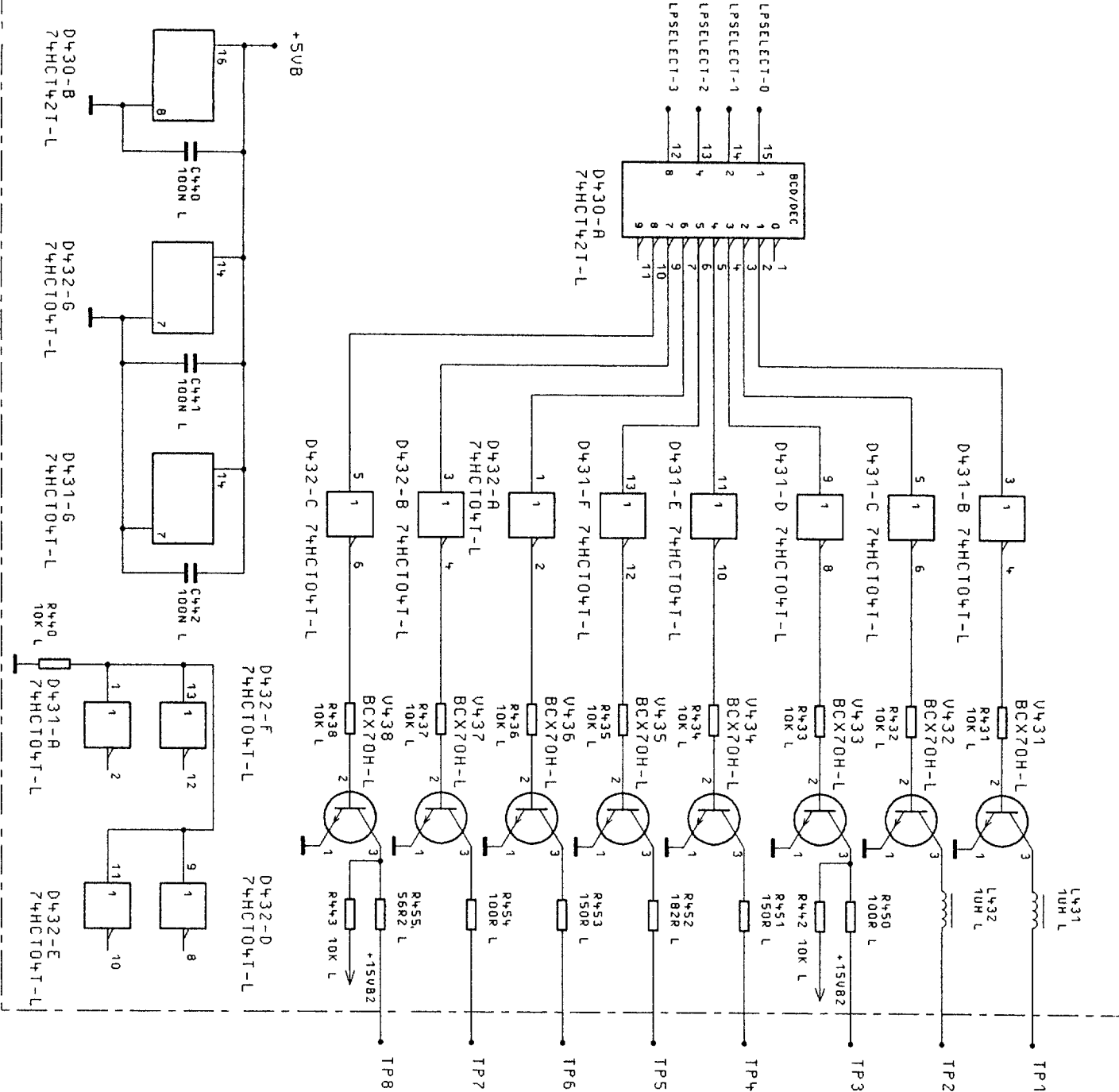
B3

RF AMPLIFIER 3





LP SELECT



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

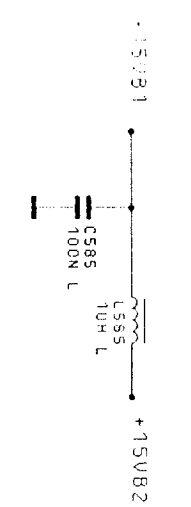
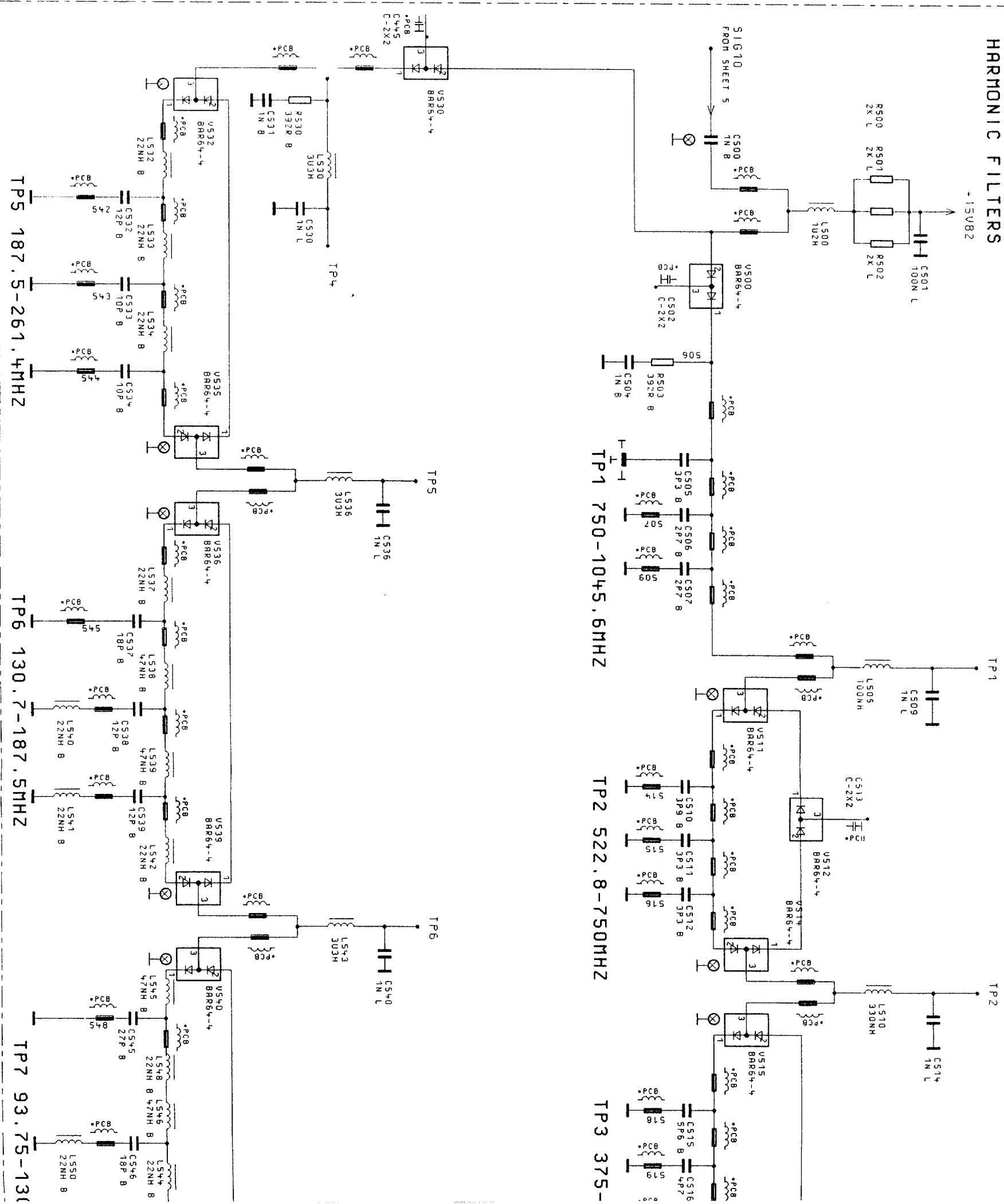
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

N.F. - NOT FITTED / NICHT BESTUECKT

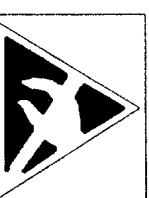
ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETE
BAUTEILE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

04/02		03.03.97	EI	MEKP	TRG	NAME	BENENNUNG	
				BEARB.		EI	AUSGANGSTEIL 2.086GHZ OUTPUT UNIT 2.086GHZ	
				GEPR.				
				MGRH				
				PLOTT	03.03.97			
RENDERUNGS- MITTEILUNG							ZEICHN.-NR.	
16.12.96 EI							1062.7005.01S	
DATUM							BLATT-NR.	
NAME							5+	
REND.							RL	
IND.								

HARMONIC FILTERS

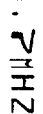
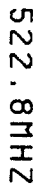


*PCB
- PRINTED ON PCB



ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHR
BAUELEMENTE ERFORDERN
BESONDERE HANDHABU
ATTENTION ESD
ELECTROSTATIC SENSITIVE
REQUIRE A SPECIAL HAN

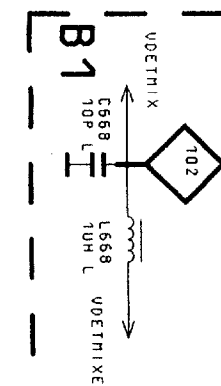
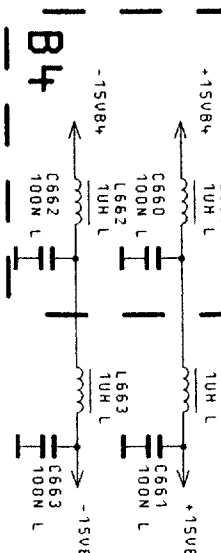
N.F. - NOT FITTED / NICHT BESTE

TUCKER

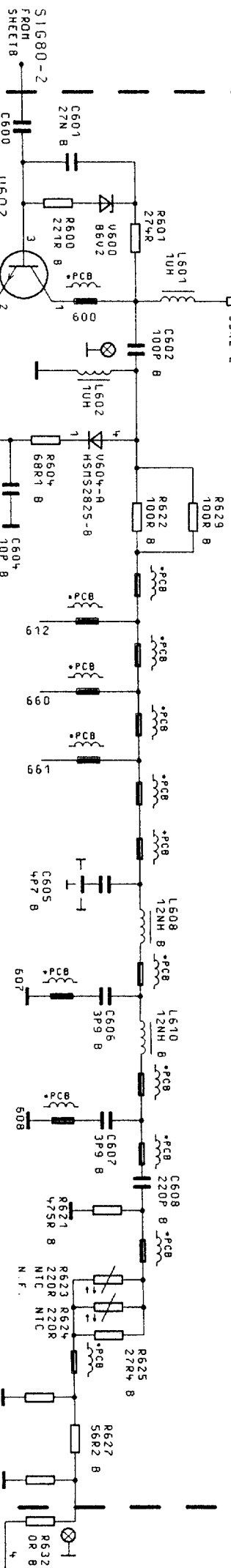
3130
3130
3130

AUSGANGSTEIL 2.086HZ
OUTPUT UNIT 2.086HZ

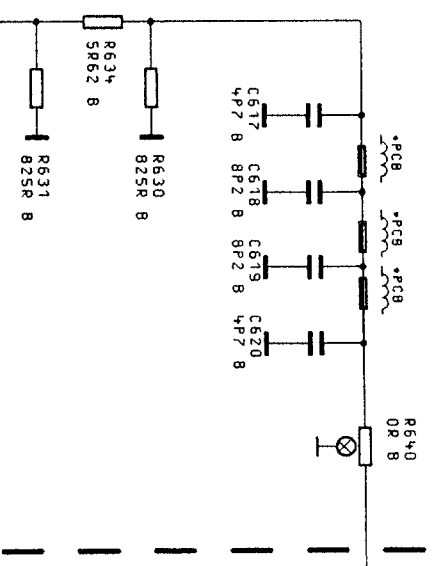
RF-AMPLIFIER 4



RF-LOWPASS



LOWPASS 640MHZ



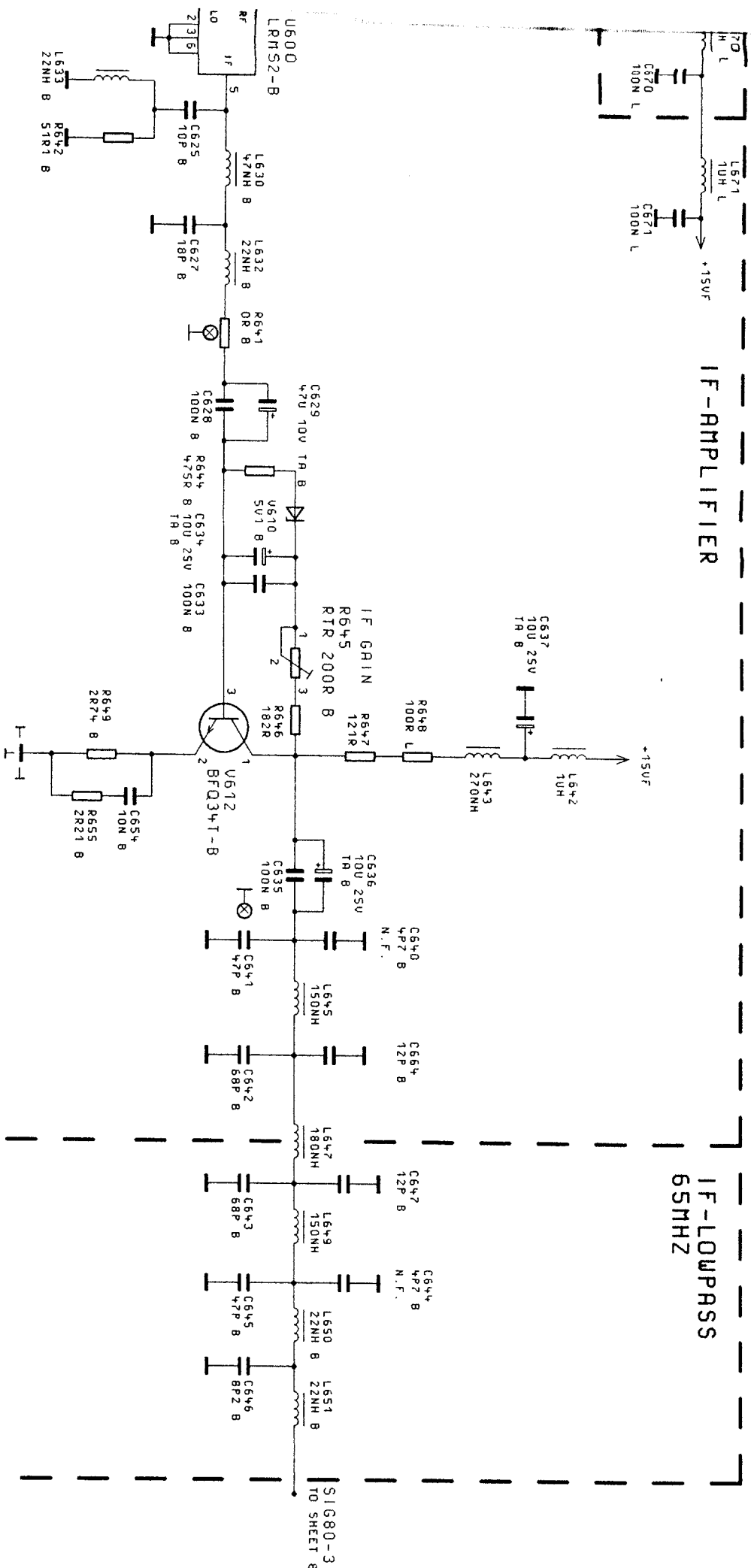
G

X225 1
REF 640
640MHZ
9...120BH

+15VE

+15VE

IF-AMPLIFIER

IF-LOWPASS
65MHZ

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

N.F. - NOT FITTED / NICHT BESTUECKT

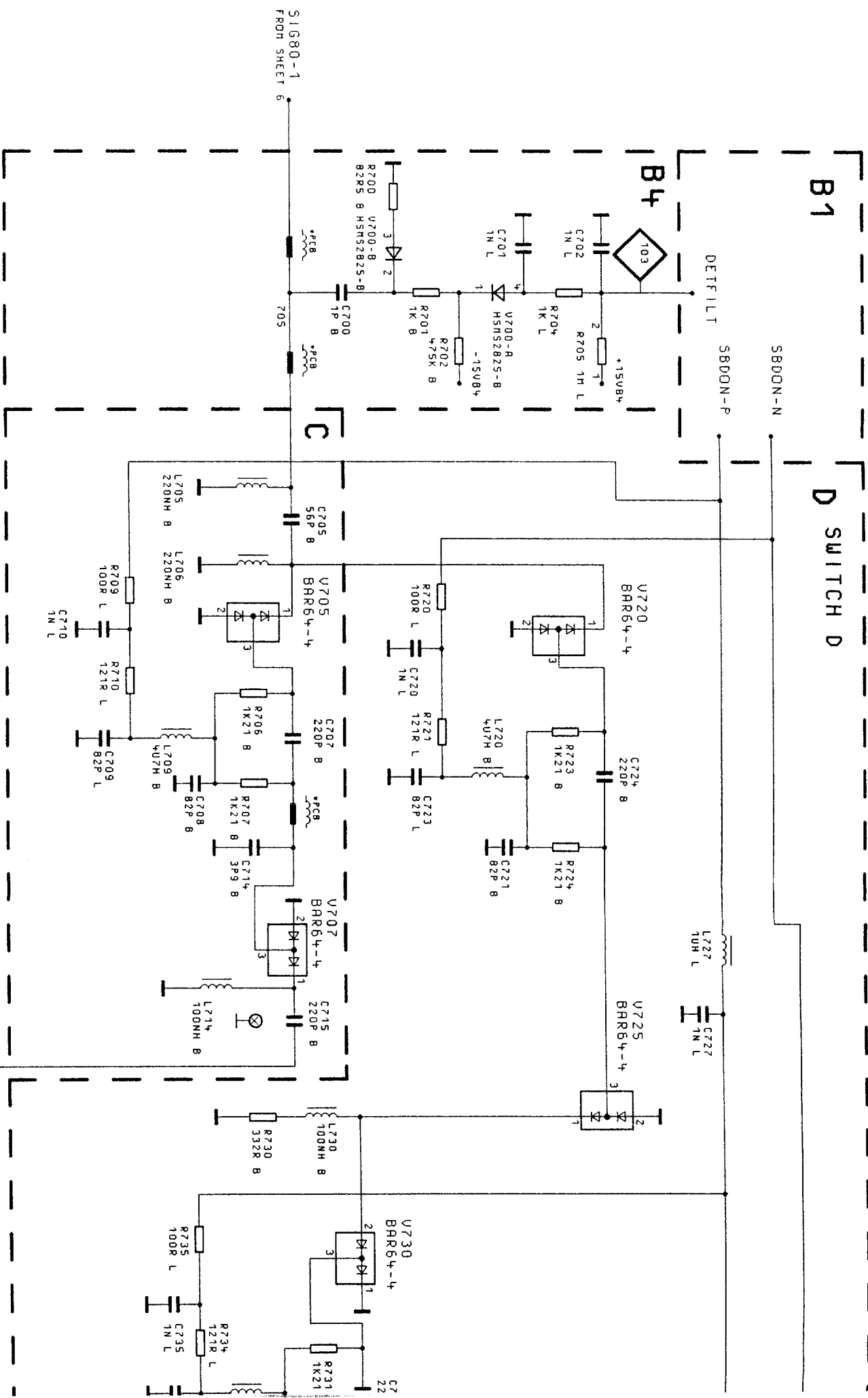
BINDENDE ANGABEN UEBER VARIANTEN,
 TRIMMWERTE, BAUTEILWERTE UND
 NICHT BESTUECKTE BAUTEILE SIEHE SA.

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

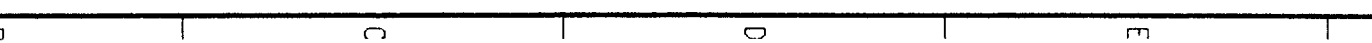
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			BEPR.			
			NORM			
			PLOTT	03.03.97		
04/01	16.12.96	E I	 ROHDE&SCHWARZ			ZEICHN.-NR. 1062.7005.015
RENDERUNGS- LÖSUNG MITTEILUNG	DATUM	NAMEN				
						BLATT-NR. 7 + 9.

AUSGANGSTEIL 2.086GHZ
OUTPUT UNIT 2.086GHZ

1062.7005.015

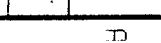


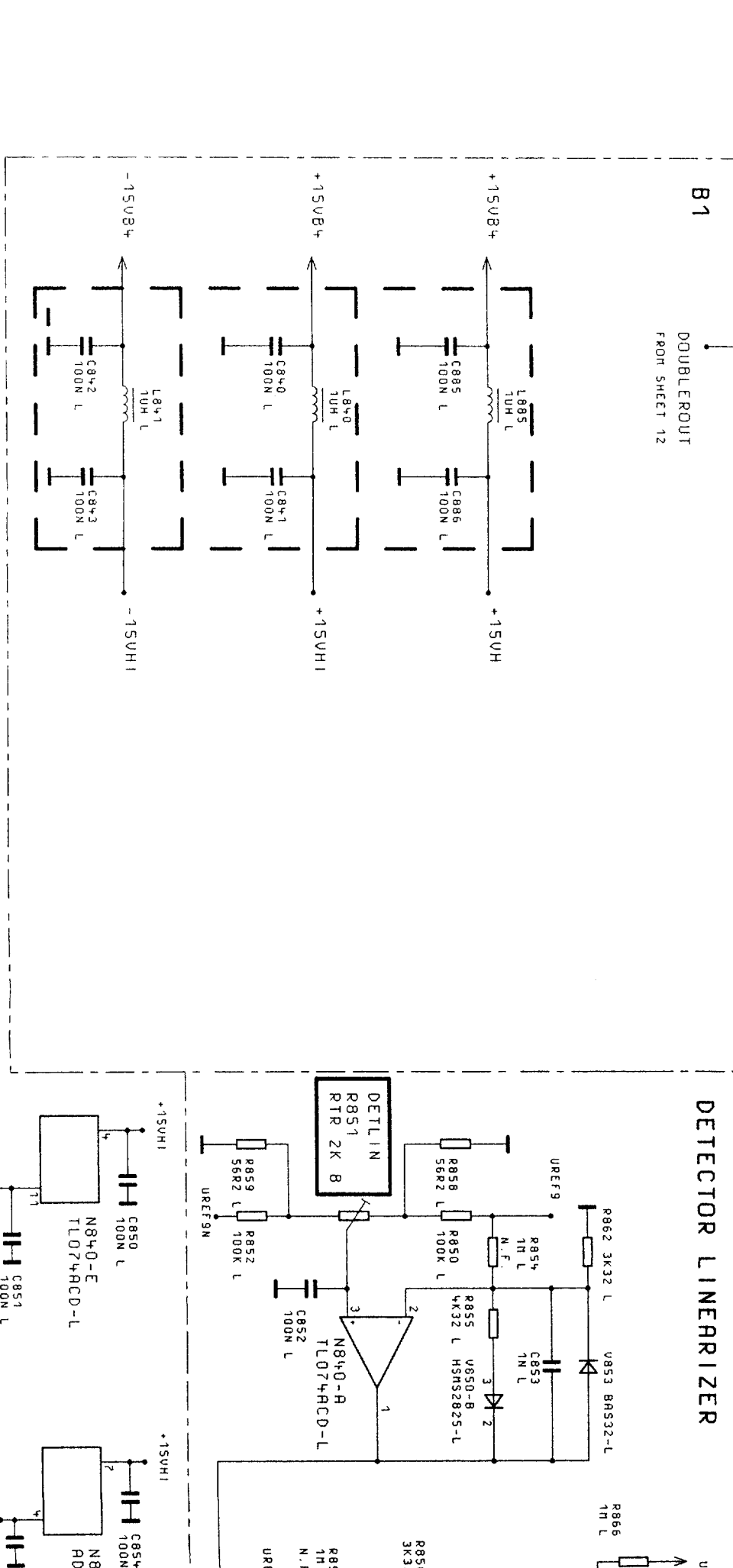
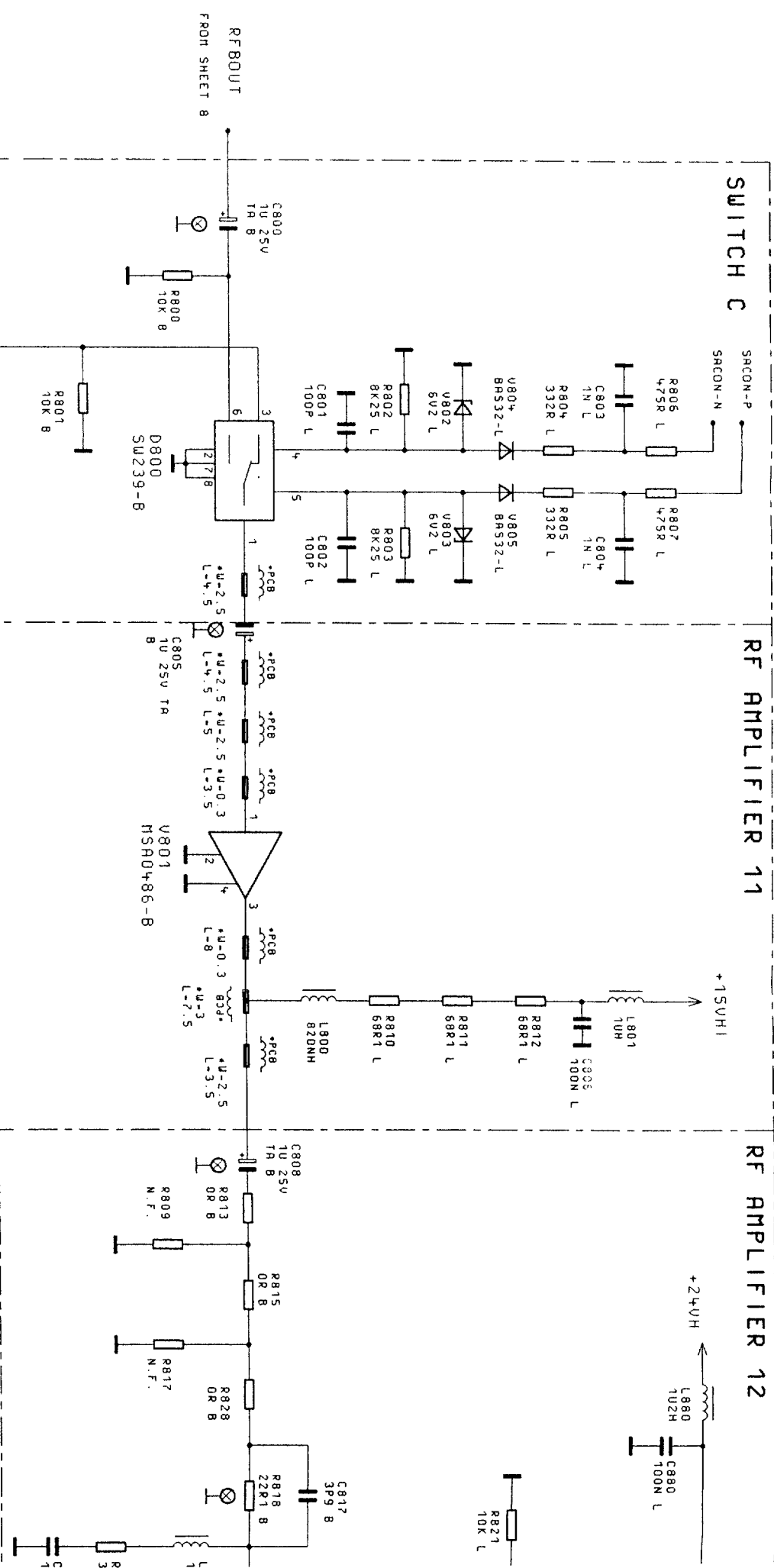
S1680-2
TO RF/AMPLIFIER 4
SHEET 7



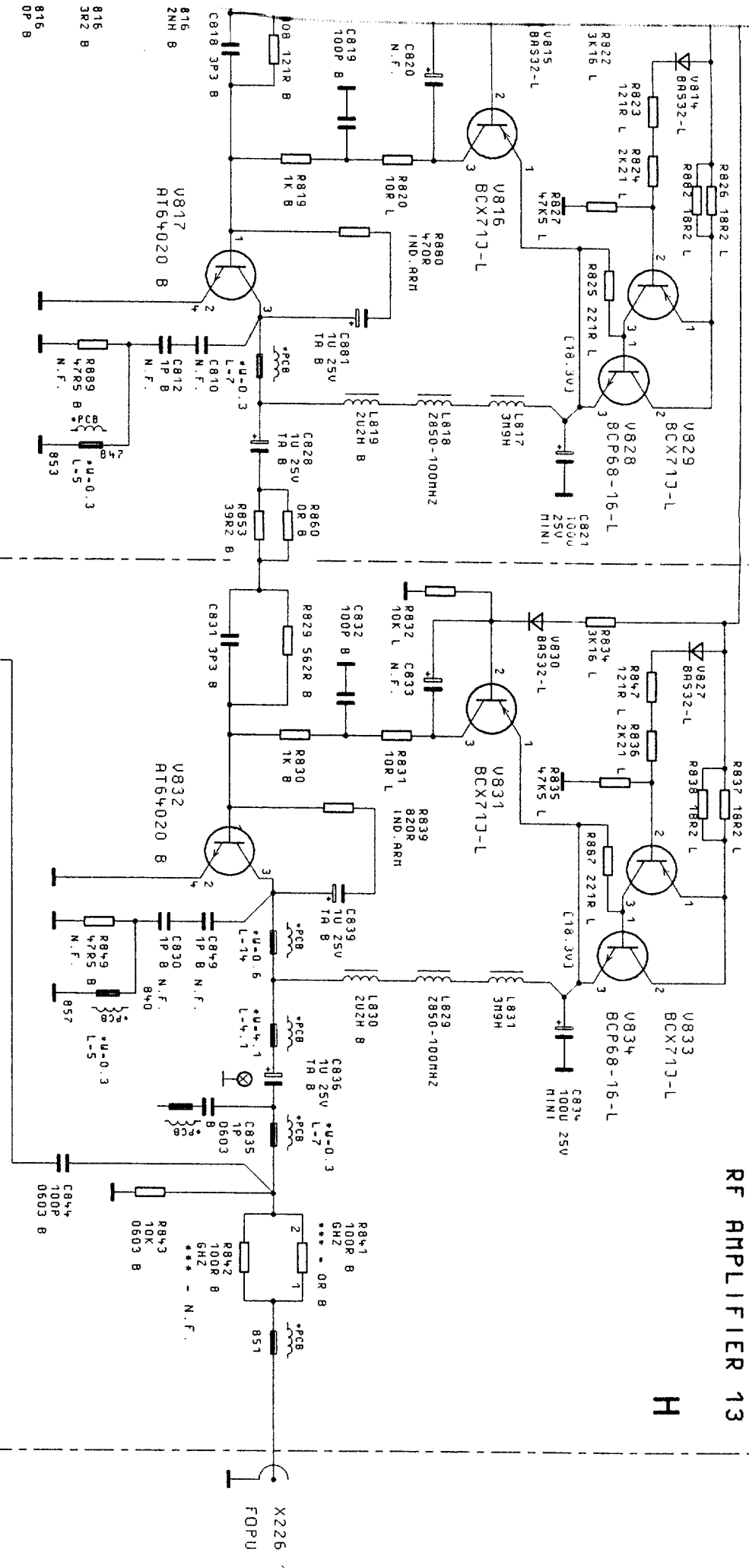
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFLITTED COMPONENTS SEE PARTS LIST

7

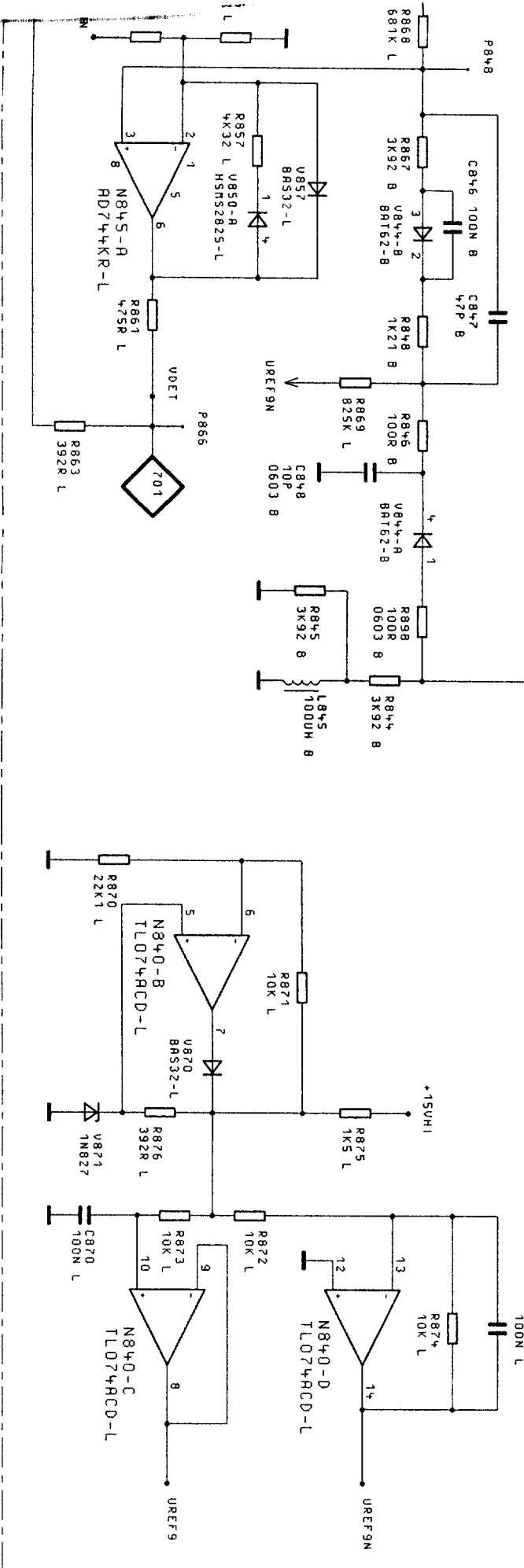




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				SEPR.			
				NORM			
				PLOTT	03.03.97		
04/04		16.12.96	E I	2/5 ROHDE&SCHWARZ			ZEICHN.-NR. 1062.7005.015
AG.NR.	RENDERUNG-NR.						

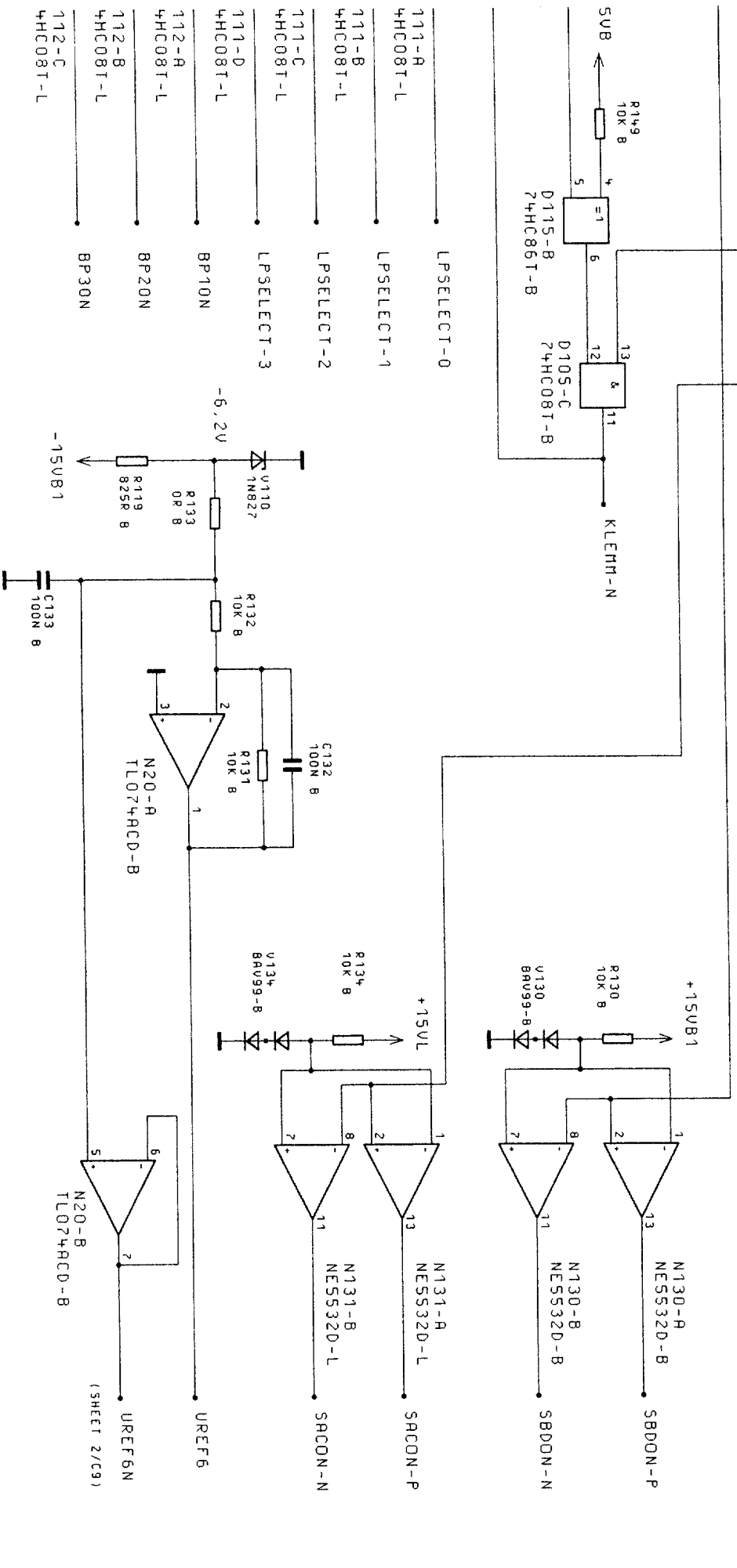
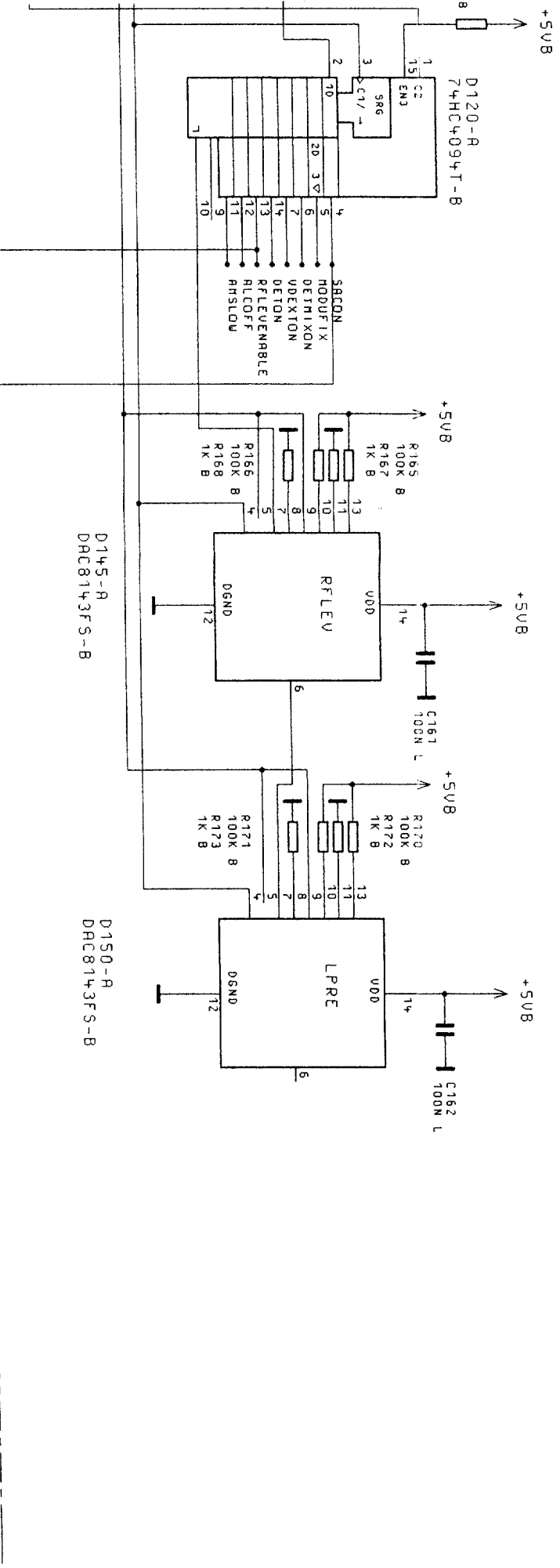
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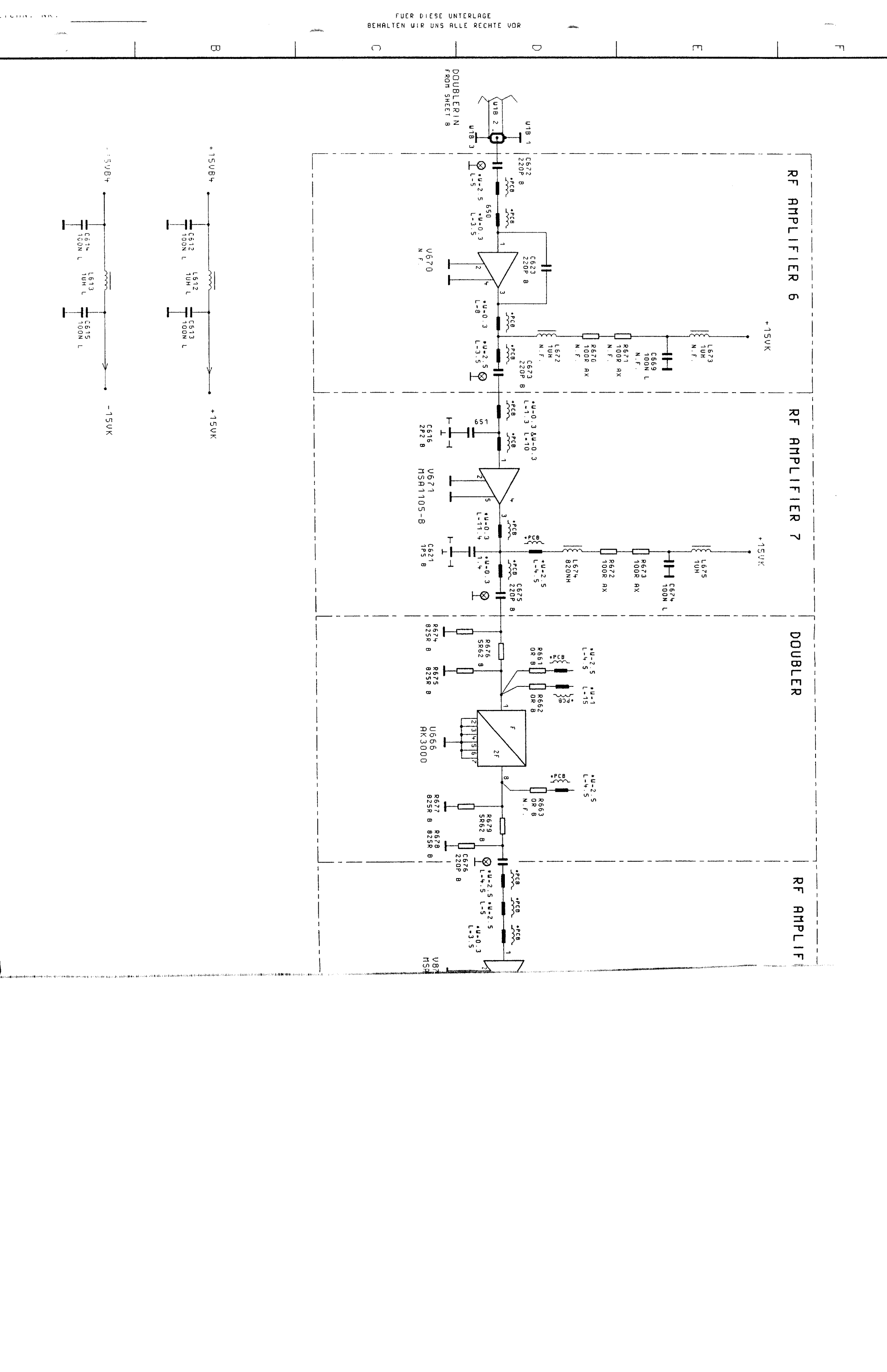
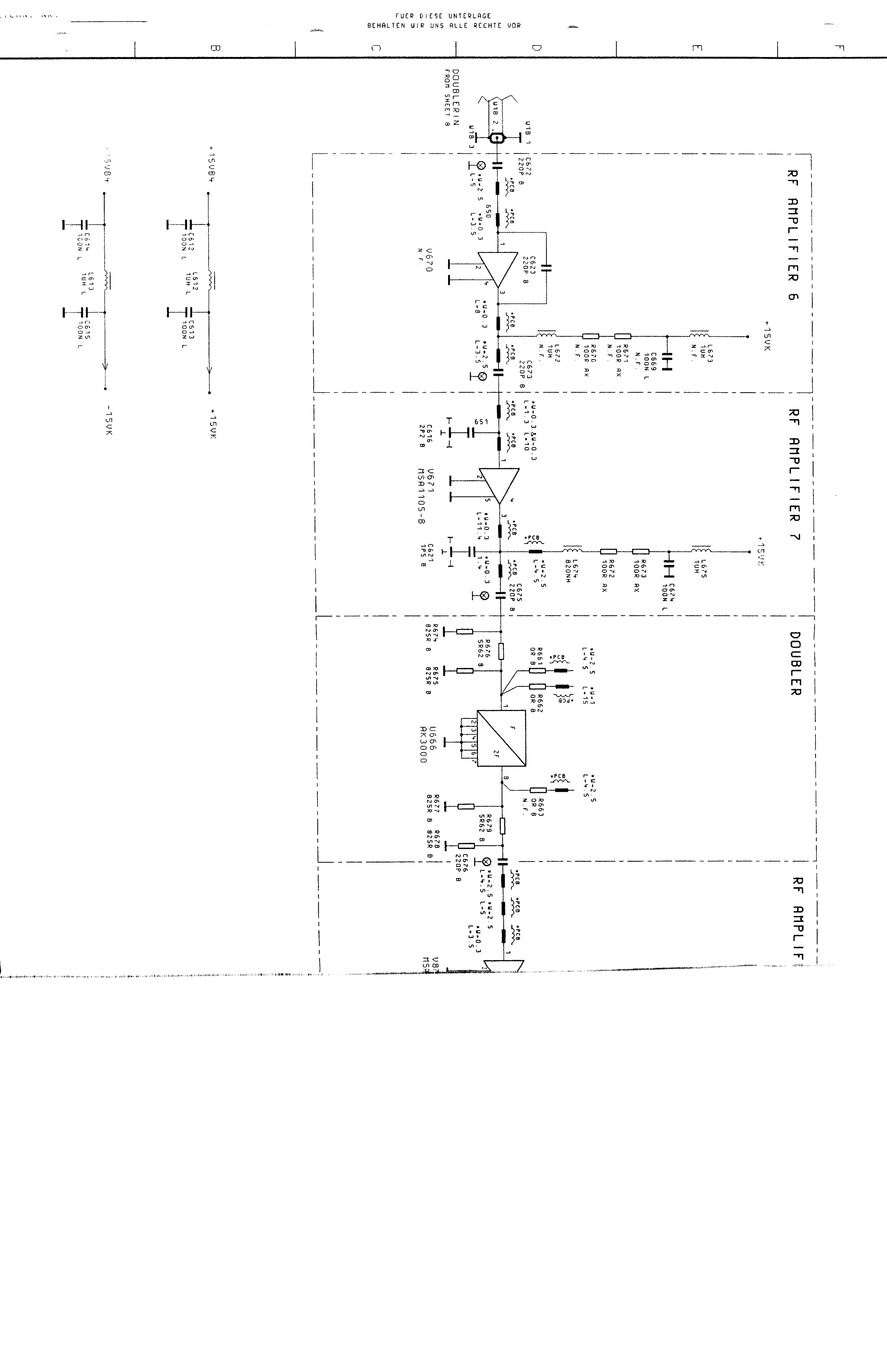
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BYTE 4+5

BYTE 6+7

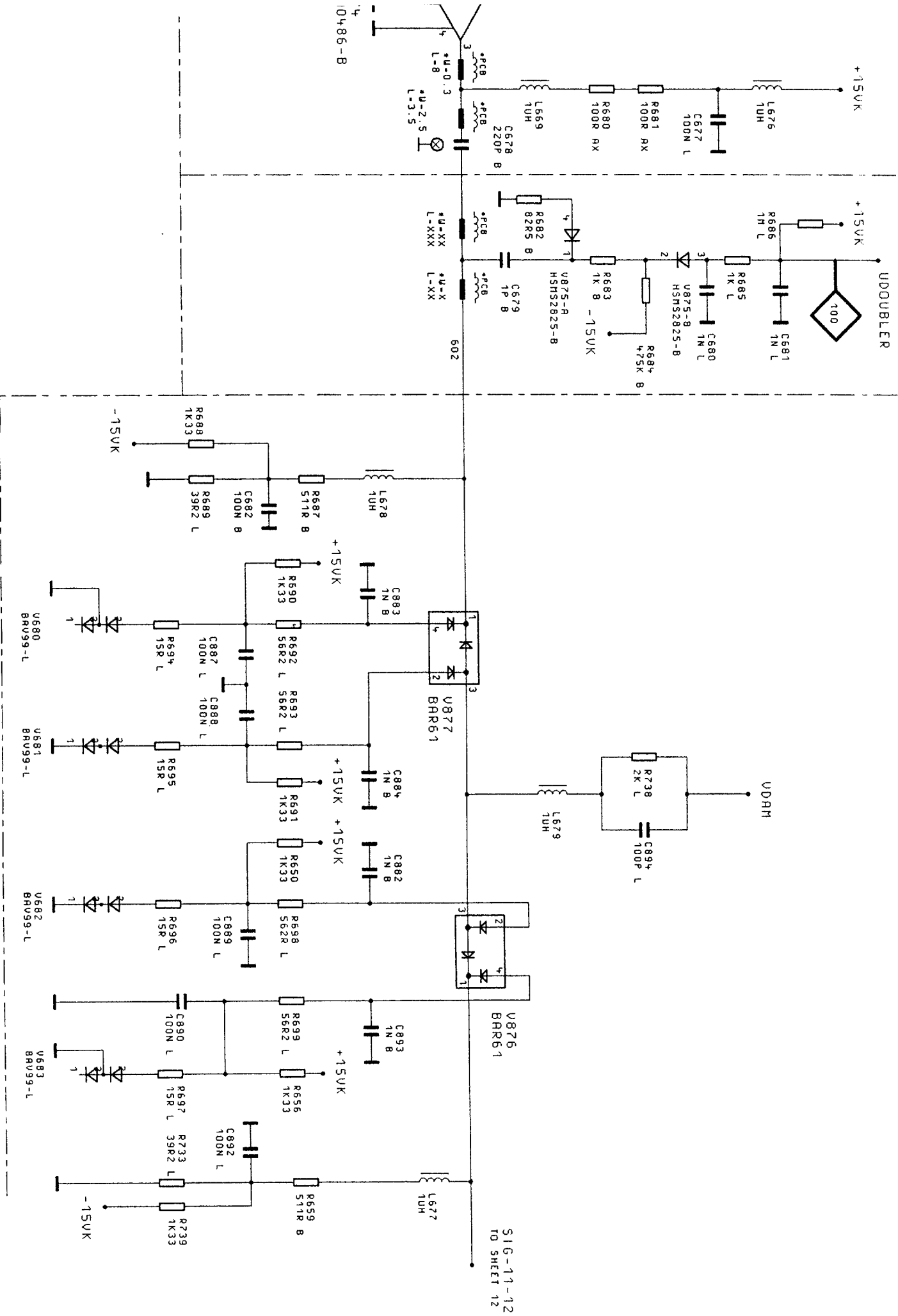


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			GEPR.			
			NORN			
			PLOTT	03.03.97		
			 ROHDE&SCHWARZ			ZEICHN.-NR. 1062.7005.015
04/01	16.12.96	E I				
RENOV. IND.	RENOVUNG- MITTEILUNG	DATUM	NAME	ZUSÄTZL. SMY		REF. I.V. 1062.5502 ERSTL. Z. 1062.5502 U BLATT-NR. 10+ BL.

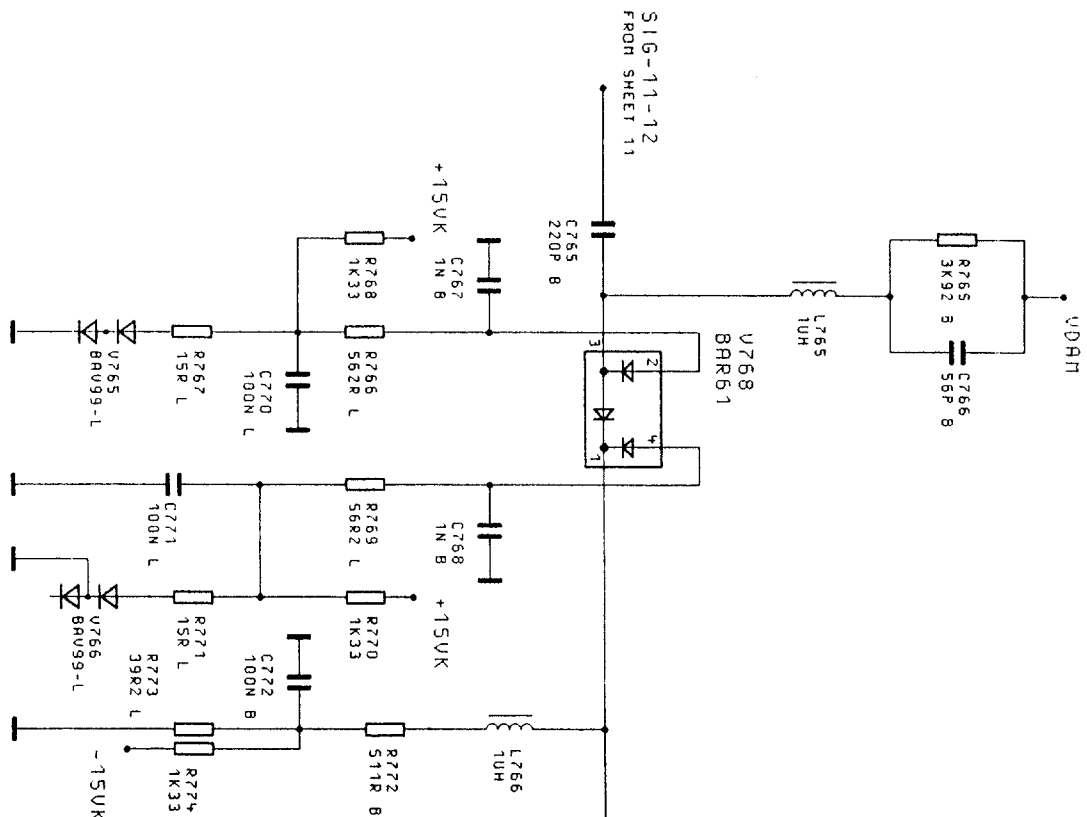


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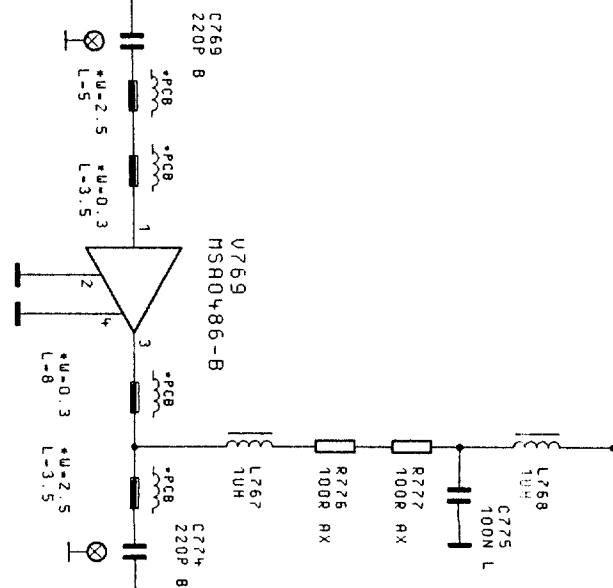
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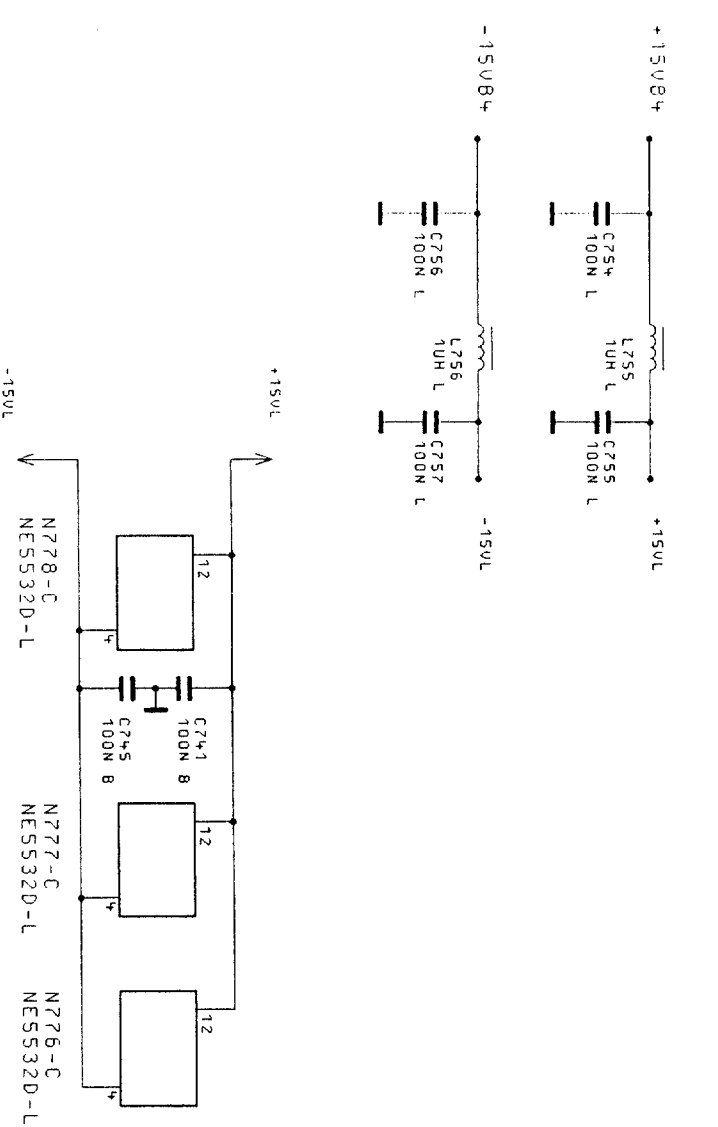
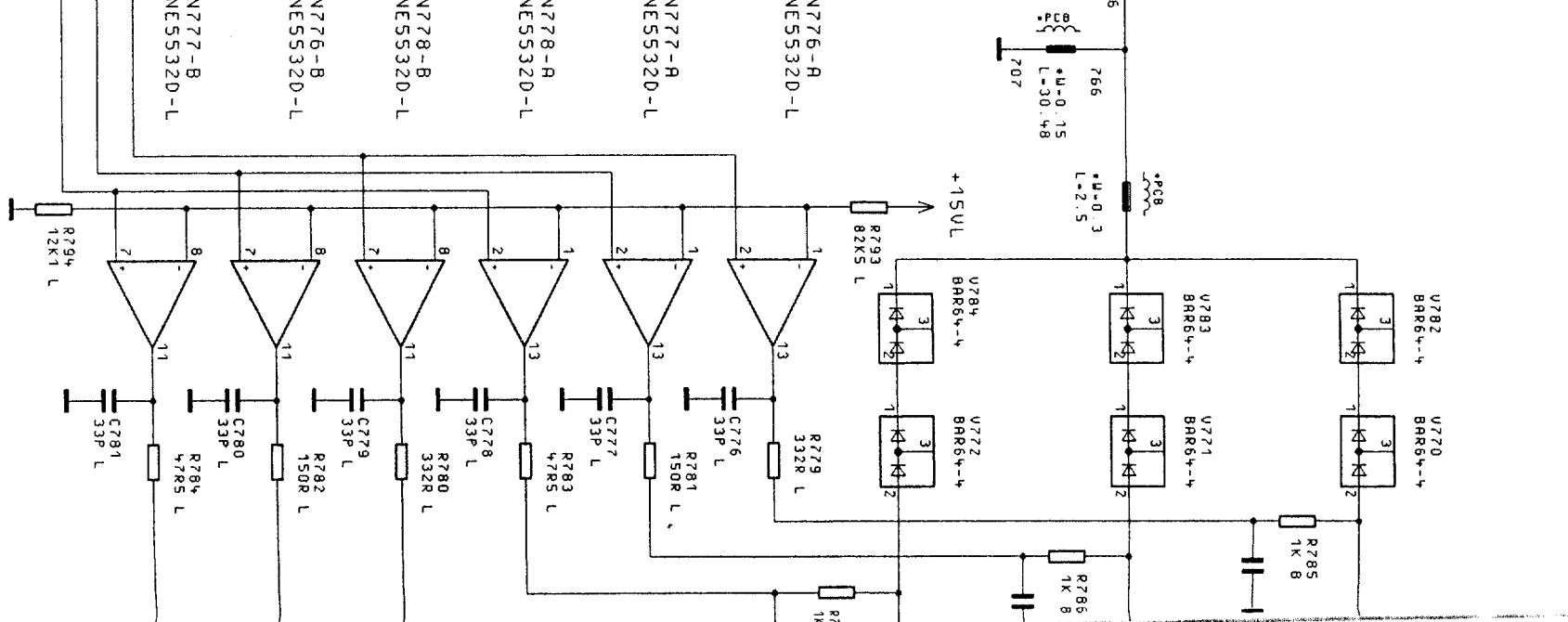
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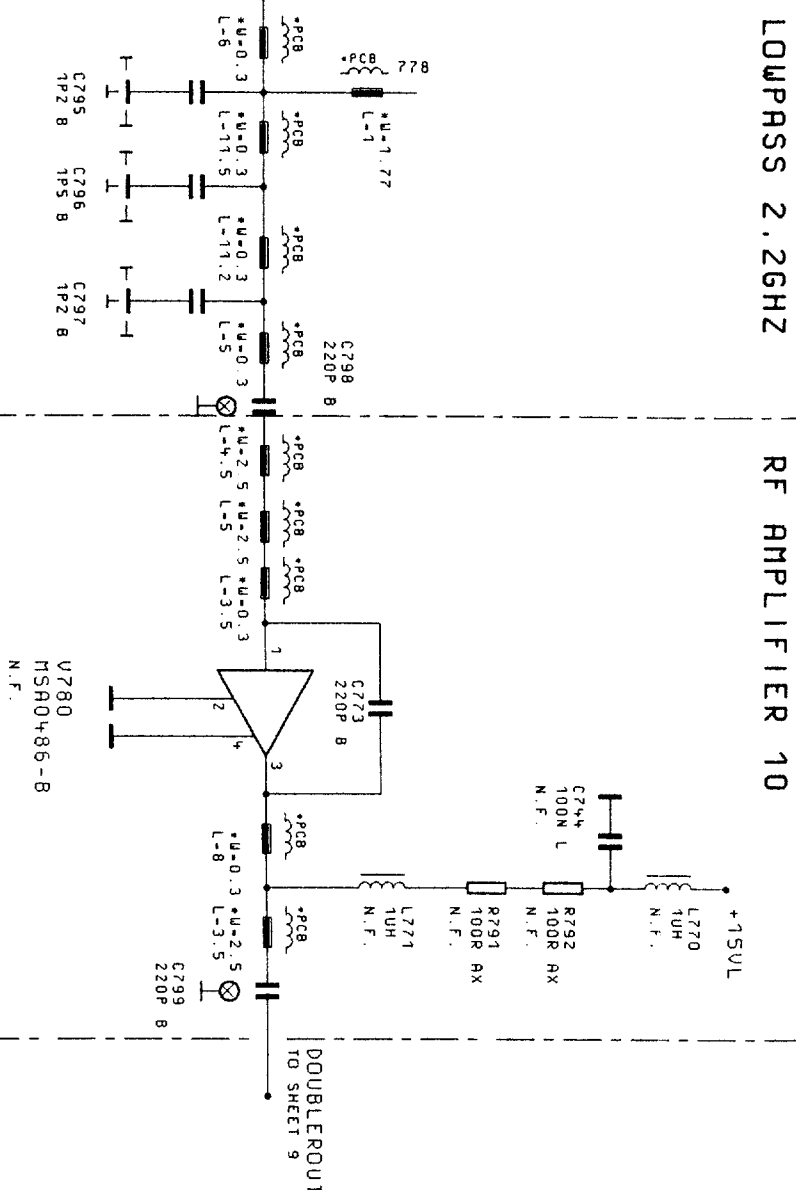
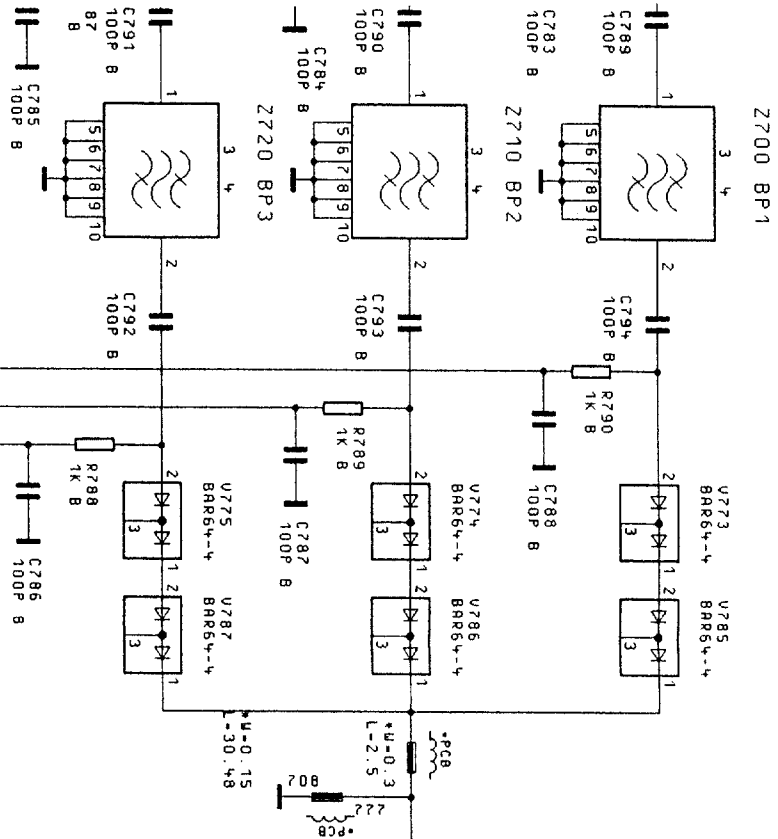


RF AMPLIFIER 9



SWITCHED BANDPASS FILTERS

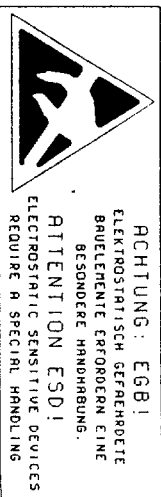




N.F. - NOT FITTED / NICHT BESTUECKT

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BRAUTEILWERTE UND
NICHT BESTUECKTE BRAUTEILE SIEHE SA

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

[illegible]

Signal-Name	Page-No.: Zones
+15VB1	02: 4F 5B 7C 03: 1B 4B 10D 06: 1A 10: 6A 10D
+15VB2	05: 11C 11D 06: 2F 3A 9F
+15VB3	02: 4F 04: 5D 6C 6D 7D 10E 11E 05: 3C 4C 6E
+15VB4	02: 4E 07: 3F 08: 2E 09: 2B 11: 1B 12: 1B
+15VE	07: 2F 3B 4F 5A 6A
+15VF	07: 7F 9F
+15VH	09: 3B
+15VHI	07: 6F 08: 9E 09: 3B 4F 6A 7A 10C
+15VK	11: 3B 3E 4E 7E 9C 10C 11C 12: 1D 3D 4F
+15VL	10: 6A 10C 12: 2A 3B 5D 11F
+24VH	02: 4E 09: 5F
+5VB	02: 3C 4D 6A 8C 03: 1B 05: 8C 10: 1B 2F 3F 4F 5E 6F 7C 7F 8E 9E 9F 10F
+9V-I	07: 1C 2C 4A
-15VB1	02: 4E 5A 7A 03: 1A 4A 10: 6A 8B
-15VB3	02: 4E 04: 4C 8C 05: 2C 4E
-15VB4	02: 4E
Druck 18.06.96	Abt.1GPK
Name DR	Dat.18.06.96
Ae.Mi.	Aei. 04
ROHDE & SCHWARZ	Benennung
	AUSGANGSTEIL_2.08GHZ
	OUTPUT_UNIT_2.08GHZ
	13+
Typ. SMY	Reg in Verz. 1062.5502
V	Sachnummer 1062.7005
S	

Signal-Name	Page-No.: Zones
-15VB4	07: 3F 08: 2D 09: 2A 11: 1A 12: 1B
-15VE	07: 4F 6A 7A
-15VHI	09: 3A 6A 8A
-15VK	11: 3A 8B 8D 12B 12: 3C
-15VL	08: 11C 10: 6A 12: 2A 3B
-9V-I	07: 1B 3B 3D 4B
ALCOFF	03: 1F 10: 7E
AM	02: 4D 03: 1D
AMINVERS	03: 1B 10: 3E
AMSLow	03: 1F 10: 7E
BLANK	02: 4C 10: 1C
BLANKENABLE	10: 3E
BLANKINVERS	10: 3E
BP10N	10: 7B 12: 4B
BP20N	10: 7B 12: 4A
BP30N	10: 7B 12: 4A
CLK1	02: 4B 10: 1E
DETFILT	02: 6D 08: 2E
DETMIXON	03: 1E
Druck 18.06.96	Abt.1GPK
Name DR	Dat.18.06.96
Ae.Mi.	Aei. 04
ROHDE & SCHWARZ	Benennung
	AUSGANGSTEIL_2.08GHZ
	OUTPUT_UNIT_2.08GHZ
	14+
Typ. SMY	Reg in Verz. 1062.5502
V	Sachnummer 1062.7005
	S

Signal-Name	Page-No.:	Zones
DETMIXON	10:	7E
DETON	03:	1E 10: 7E
DIAG-0	02:	7E 10: 3E
DIAG-1	02:	7E 10: 3E
DIAG-2	02:	7E 10: 3E
DIAG-3	02:	7E 10: 3E
DIAGON	10:	3E
DOUBLEROUT	09:	2C 12: 12D
HF-INT-ENABLE	02:	11C 10: 3E
KLEMM-N	03:	1F 10: 8C
LPSELECT-0	05:	8D 10: 7C
LPSELECT-1	05:	8D 10: 7C
LPSELECT-2	05:	8D 10: 7B
LPSELECT-3	05:	8D 10: 7B
MODUFIX	03:	10C 10: 7E
RFBOUT	08:	12D 09: 1D
RFLEVENABLE	10:	7E
RFLOLEV	04:	12D 05: 1D
SACON	10:	7E
SACON-N	08:	9E
Druck 18.06.96	Abt.1GPK	Name DR
	Dat.18.06.96	Ae.Mi.
		Aei. 04
ROHDE & SCHWARZ	Benennung	AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ
		15+
Typ. SMY	Reg in Verz. 1062.5502	V
	Sachnummer 1062.7005	S

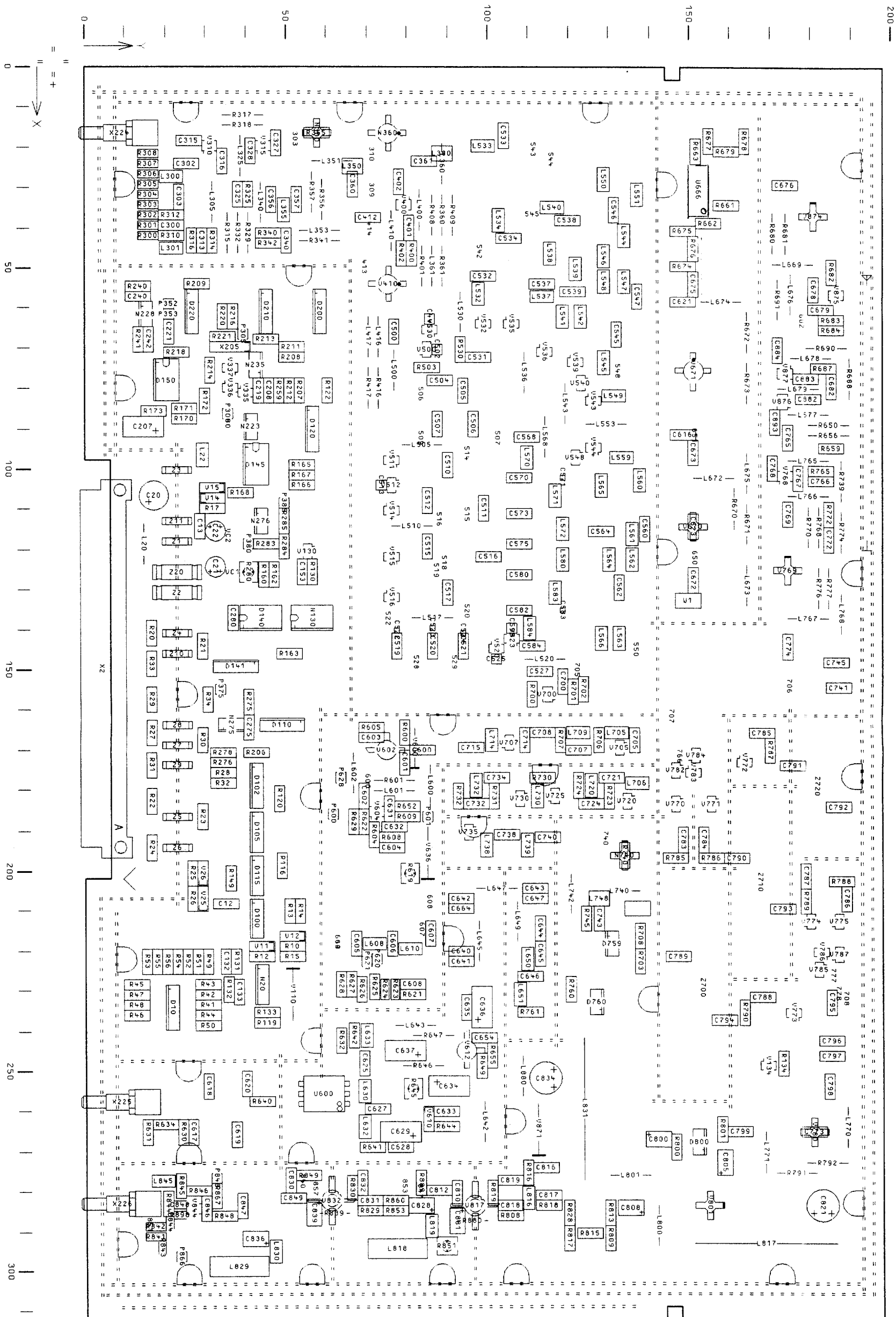
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SACON-P	08: 9E 09: 2F 10: 11C
SBDON	10: 5E
SBDON-N	08: 2E 10: 11C
SBDON-P	08: 2E 10: 11D
SEROUT	02: 4C 10: 1E
SIG-11-12	11: 12D 12: 1D
SIG10	05: 7D 06: 1E
SIG80-1	06: 11E 08: 1C
SIG80-2	07: 1D 08: 5B
SIG80-3	07: 12D 08: 11B
TP1	05: 12E 06: 4F
TP2	05: 12E 06: 6F
TP3	05: 12D 06: 7F
TP4	05: 12D 06: 2C
TP5	05: 12D 06: 3C
TP6	05: 12D 06: 5C
TP7	05: 12C 06: 7C
Druck 18.06.96 Abt.1GPK Name DR Dat.18.06.96 Ae.Mi.	Aei. 04
ROHDE & SCHWARZ	Benennung AUSGANGSTEIL_2.08GHZ OUTPUT_UNIT_2.08GHZ 16+
Typ. SMY	Reg in Verz. 1062.5502 V Sachnummer 1062.7005 S

Signal-Name	Page-No.: Zones
TP8	05: 12C 06: 10C
UDOUBLER	02: 11E 11: 8E
ULPRE	02: 11E 03: 12E 05: 4E
UMODULATOR	02: 11E 03: 12C 04: 6E
UREF6	03: 9F 10: 11B
UREF6N	03: 4C 10: 11B
UREF9	09: 5C 6C 12B
UREF9N	09: 5A 6B 8B 12C
UREGELVERST	02: 6C 03: 11B
URF-SOLL	02: 11E 03: 7C
VDAM	03: 11B 11: 10E 12: 2F
VDET	02: 11E 03: 1E 09: 8B
VDETMIX	02: 11E 03: 1F 07: 5F
VDETMIXE	07: 4C 5F
VDEXT	02: 4F 03: 1E
VDEXTON	03: 1E 10: 7E
WR1	02: 4B 10: 1E

Druck 18.06.96	Abt.1GPK	Name DR	Dat.18.06.96	Ae.Mi.	Aei. 04
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Typ. SMY	Reg in Verz. 1062.5502	V	Sachnummer 1062.7005	S	



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

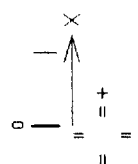


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			ROBTH				
			PIOTT	17.06.96			
1			5/3			ZETTER - NP	10662.7005.01
1			ROHDE&SCHWARZ				EE
1							1+ 11

REFRENUMS			
DATE	TIME	TYPE	DR
77-06-26		10PK	DR
		REDB.	
		STP	DR
		MODN	
		NOZZ	

RUSG6NSTEIL 2.086HZ
 OUTPUT UNIT 2.086HZ

2





ROHDE & SCHWARZ

SERVICE INSTRUCTIONS

Power Module

1062.7240.01

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7.3.2 Errors Occurring Only in the Range $f_{RF} > 10$ MHz.....	6
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Parts list
List of coordinates
Circuit diagram
Component layout diagram

7.1 Function Description

The RF signal from the output module OPUY1 or OPUY2 is provided at the input FOPU, divided by means of a signal divider (R91, R92) and amplified in identical paths. Each path contains a pulse modulator which is followed by an RF amplifier. One amplifier output passes via the FPOW output to the attenuator, the other one to the detector (V13). The RF voltage is rectified, there. The directional voltage is linearized (N6) and routed via the VDETPOW output to the motherboard and then to the output unit OPUY1 or OPUY2 as actual value for amplitude control in the frequency range $f > 10$ MHz.

Only the pulse modulator followed by the RF amplifier 1 is controlled, the other one assumes always the On state. Control is effected via the PULSE input. Level (EMF) or HIGH level at the input lead to RF ON, Low means RF OFF. This polarity may be inverted by plugging on the jumper P1-P2. The amplifiers N1 and N2 convert the TTL signal to the control level 0 V/-8 V for the GaAs switches D2 and D3.

The RF amplifiers are fed from constant-current sources V4 and V5, the drain voltages are regulated via the amplifiers N3 and N4. The amplifier stages V11 and V12 provide a gain of approx. 10 dB. The pulse modulators preceding the amplifier stages have an attenuation of approx. 2 dB with 2 GHz. The signal divider (R91, R92) has a transmission loss of 6 dB.

7.2 Test Instruments and Utilities

- Spectrum analyzer (e.g., FSBS)
- Oscilloscope (e.g., BOL)
- DC voltmeter (multimeter, e.g., UDL33)
- RF level meter (e.g., NRVD with sensor Z51)
- 10-dB attenuator with N connectors (e.g., DNF)
- 50- Ω termination (e.g., RAD)

7.3 Troubleshooting

Before opening the instrument, it is useful to first perform the LEVEL PRESET calibration and localize possible error sources using the diagnostic voltages. The special function 102 (detector voltage FOPU output) allows for checking the RF source for the Power Module: with a RF level of -30 dBm and RF frequencies > 10 MHz the typical voltage values are in the range from 0.7 to 1.3 V.

7.3.1 Errors Occurring Only in the Range $f_{RF} < 10$ MHz

incorrect RF level at X4 FPOW	Check signal divider R91/R92, pulse modulator D2/D3 and RF amplifier 1 with $f = 100$ kHz using an oscilloscope.
bad AM distortion	Check current source V4 and the drain-voltage control N3.

7.3.2 Errors Occurring Only in the Range $f_{RF} > 10$ MHz

incorrect RF level at X4 FPOW	The gain of pulse modulators D2/D3 and D4/D5 or of the RF amplifiers 1 and 2 is not equal or the RF voltage at the output of RF amplifier 2 is not rectified correctly. Check detector and linearization circuit.
AM distortion too high	Test and adjust detector and linearization circuit.

7.3.3 Errors in the Range $9 \text{ kHz} < f_{RF} \leq 2080 \text{ MHz}$

no level at X4 FPOW	The control voltage of the AM modulator (special function 107) must be $> 12 \text{ V}$, otherwise, the level control does not work correctly or the reference value of RFLEV D/A converter is incorrect (the error is then located in the output units OPUY1 or OPUY2). Check signal divider R91/R92, pulse modulator D2/D3 and RF amplifier 1 with $f = 100 \text{ kHz}$ using an oscilloscope.
harmonics too high	Check the current source V4 and the drain-voltage control N3.
AM distortion too high	Test and adjust detector and linearization circuit.
pulse modulation with incorrect polarity	Jumper P1-P2 must not be plugged, check EXOR function of D1
pulse modulation not possible or incorrect rise and/or fall times	Check control signals in the signal chain D1, N1 and N2 to D2 and D3
on/off-ratio with pulse modulation too low	Check D2 and D3 and RC lowpasses of the control lines

7.4 Testing and Adjustment

7.4.1 Testing the Power Consumption

- Setting: PRESET

The currents can either be measured at the connector X1 or by means of the voltage drop at measurement resistors. If several measurement resistors are provided, the individual currents have to be added.

Connector	Voltage	Power consumption	Resistor (2 Ω)
X1.11 and X1.12	+5 V	35 to 45 mA	R66
X1.13 and X1.14	+15 V	340 to 360 mA	R67 and R68
X1.15 and X1.16	-15 V	45 to 55 mA	R69, R70 and R72

7.4.2 Testing the Operating Points of the Amplifier Stages

Test point	Rated voltage	Remark
V11 Drain	6.60 $\pm$ 0.5V	RF AMPLIFIER 1
V11 Gate	-1.0 $\pm$ 0.5V	RF AMPLIFIER 1
V4 Collector	7.25 $\pm$ 0.2V	current source
U15VA1 - V4 Emitter	1.21 $\pm$ 0.02V	I = 150 mA
V12 Drain	6.60 $\pm$ 0.5V	RF AMPLIFIER 1
V12 Gate	-1.0 $\pm$ 0.5V	RF AMPLIFIER 1
V5 Collector	7.25 $\pm$ 0.2V	current source
U15VA2 - V5 Emitter	1.21 $\pm$ 0.02V	I = 150 mA

7.4.3 Testing the Pulse-modulator Control

Check the voltages according to the table below: High = 5 V,
Low = 0 V.

P1-P2	PULSE	D1/10	D1/8	D1/3	D1/6	N1/6	N2/6	D2/5	D3/5	D2/4	D3/4
not connected	High	High	Low	Low	High	0 V	-7.9 V	0 V	0 V	-7.9 V	-7.9 V
connected	Low	High	Low	Low	High	0 V	-7.9 V	0 V	0 V	-7.9 V	-7.9 V
not connected	Low	Low	High	High	Low	-7.9 V	0 V	-7.9 V	-7.9 V	0 V	0 V
connected	High	Low	High	High	Low	-7.9 V	0 V	-7.9 V	-7.9 V	0 V	0 V

Remove jumper P1-P2.

7.4.4 Testing the Detector Voltage at the Output VDETPOW

- Setting: RF 100 MHz
Switch on special function 49 (level correction inactive)

_ Check dc voltage at VDETPOW according to the following table:

RF level in dBm	-30	11.1	13	16	19
Voltage in V	2.0	1.27	1.58	2.23	3.14

Switch on special function 50 (level correction active)

7.4.5 Adjusting the Detector Linearity at the Output FPOW

- Setting: RF 100 MHz
LEVEL 11.1 dBm
- _ Measure and note output level at the RF output of the instrument (= reference level)
- Setting: Switch on special function 1 (non-interrupting level setting)
LEVEL -8.9 dBm
- _ Use POT R36 such that the measured level is 20 dB below the previously measured reference level. Repeat adjustment once, since the reference value changes by using R36; the accuracy of the 20-dB attenuation must be ± 0.1 dB.

7.5 Disassembly and Assembly

Remove top cover. The module is screwed to the frame and plugged in the transverse panel. The module can be removed after removing the screw and disconnecting the coaxial connections at X2, X3, X4, X5 and the connector X1.

7.6 **Final Test**

7.6.1 **Maximum Output Level Check**

- Setting: LEVEL 25 dBm
- _ Connect a power meter to X226 FOPU, make sure not to exceed the maximum RF power permitted! If necessary, an appropriate attenuator pad must be series-connected.
- _ Vary the RF frequency from 9 kHz to 2080 MHz.
The RF level must remain > 20 dBm.

7.6.2 **Harmonics Suppression Check**

- Setting: LEVEL 16 dBm
- _ Connect a spectrum analyzer to the RF connector of the instrument.
- _ The level of the harmonics must be < -25 dBc.

7.6.3 **Checking the Dynamic Range of Pulse Modulation**

- Setting: LEVEL 19 dBm
- _ Connect a spectrum analyzer to the RF connector of the instrument.
- _ Apply 0 V to the PULSE connector.
- _ The RF level must be < -51 dBm with 70 MHz.
- _ The RF level may increase linearly up to < -46 dBm in the frequency range $70 \text{ MHz} < f < 520 \text{ MHz}$.
- _ The RF level must remain < -46 dBm in the frequency range $520 \text{ MHz} < f < 800 \text{ MHz}$.
- _ The RF level may increase linearly up to < -16 dBm in the frequency range $800 \text{ MHz} < f < 2080 \text{ MHz}$.

The typical RF-OFF level is 10 dB below the given values.

7.6.4 **Checking Switching Times of Pulse Modulation**

- Setting: LEVEL 19 dBm
 RF 50 MHz

Connect an oscilloscope with an input impedance of 50 Ω to the RF connector of the instrument.

- _ Apply a TTL signal with $f = 1$ MHz to PULSE.
- _ The rise and fall time (10/90%) of the RF-signal envelope must be < 20 ns.
- _ The delay of the envelope compared to the control signal at the PULSE input (50%) must be < 200 ns.

7.6.5 **Level Accuracy Check**

- Setting: LEVEL 0 dBm
 RF 9 kHz to 2080 MHz

- _ Connect a power meter to the RF connector of the instrument.
- _ The RF level must be 0 dBm $\pm$ 1 dB. Typical deviations after calibration of the output level are < ± 0.1 dB (cf. To Vol. 1, Section 6.4).

7.7 **External Interfaces**

Pin	Name	Input/Output	Origin/Destination	Range	Signal description
X1.01	GND				
X1.02	SERDAT	Input	CPU	HCMOS level	not used
X1.03	GND				
X1.04	SERCLK	Input	CPU	HCMOS level	not used
X1.05	GND				
X1.06	ELSTB	Input	CPU	HCMOS level	not used
X1.07	GND				
X1.08	OVERLOAD	Output	CPU	HCMOS level	not used
X1.09	GND				
X1.10	PULSE-INV	Input			
X1.11	VA-5P	Input	Power supply X21.5	5.10 V to 5.25 V	not used
X1.12	VA-5P	Input	Power supply X21.5	5.10 V to 5.25 V	Analog supply voltage
X1.13	VA15-P	Input	Power supply X21.13	14.80 V to 15.75 V	Analog supply voltage
X1.14	VA15-P	Input	Power supply X21.13	14.80 V to 15.75 V	Analog supply voltage
X1.15	VA15-N	Input	Power supply X21.19	-15.75 V to -14.85 V	Analog supply voltage
X1.16	VA15-N	Input	Power supply X21.19	-15.75 V to -14.85 V	Analog supply voltage
X2	FOPU	Input	OPUY1/2	11 to 19 dBm	9 kHz to 2080 MHz
X3	PULSE	Input	Rear panel	HCMOS level	DC to 1 MHz
X4	FPOW	Output	Attenuator X2	11 to 19 dBm	9 kHz to 2080 MHz
X5	VDETPOW	Output	OPUY1/2	0 to 5 V	DC to 100 kHz

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

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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
	XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS VAR02=GRUNDAUSFUEHRUNG MOD02=BASIC_MODEL				
C1	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
..9	ERAMIC CHIP CAPACITOR				
C10	CC 39PF+-1% 50VNPO 0603	0009.9730.00	VITRAMON	VJ0603A *** FXAT	
..13	SMD-CERAMIC-CAPACITOR				
C14	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
..29	ERAMIC CHIP CAPACITOR				
C30	CE 10UF+-20%35V RUND SMD	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
	SMD-ELECTROLYTIC CAPACIT.				
C31	CE 10UF+-20%35V RUND SMD	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
	SMD-ELECTROLYTIC CAPACIT.				
C32	CE 10UF +-10% 25V 7343	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
	TANTALUM SMD-CAPACITOR				
	NICHT BESTUECKT				
C33	CE 10UF +-10% 25V 7343	CE 0007.7246.00	SPRAGUE	293D 106 X9 025 D2T	
	TANTALUM SMD-CAPACITOR				
	NICHT BESTUECKT				
C34	CC 10PF+-0,1 50V NPO 0603	CC 0009.4567.00	AVX	0603 5A *** BAT00J	
	SMD-CERAMIC-CAPACITOR				
C35	CE 10UF +-10% 10V 6032	CE 0007.7281.00	KEMET	T491 C 106 K 010 AS	
	TANTALUM SMD-CAPACITOR				
	NICHT BESTUECKT				
C36	CE 10UF+-20%35V RUND SMD	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
	SMD-ELECTROLYTIC CAPACIT.				
C37	CC 15PF+-1% 50VNPO 0603	0009.8227.00	VITRAMON	VJ0603A *** BXAT	
	SMD-CERAMIC-CAPACITOR				
C38	CC 15PF+-1% 50VNPO 0603	0009.8227.00	VITRAMON	VJ0603A *** BXAT	
	SMD-CERAMIC-CAPACITOR				
C39	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
	ERAMIC CHIP CAPACITOR				
C40	CC 47PF+-1% 50VNPO 0603	CC 0009.4644.00	VITRAMON	VJ0603A *** FXAT	
	SMD-CERAMIC-CAPACITOR				
C41	CE 1UF +-10% 10V 1206	CE 0007.7252.00	SPRAGUE	293D 105 X9 010 D2T	
	TANTALUM-SMD-CAPACITOR				
C42	CE 1UF +-10% 25V EIA3528	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
..44	TANTALUM SMD-CAPACITOR				
C45	CE 1UF +-10% 10V 1206	CE 0007.7252.00	SPRAGUE	293D 105 X9 010 D2T	
	TANTALUM-SMD-CAPACITOR				
C46	CE 1UF +-10% 25V EIA3528	CE 0007.7217.00	SPRAGUE	293D 105 X9 025 B2T	
	TANTALUM SMD-CAPACITOR				
C47	CC 0,7PF+-0,05PF 0603	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
	SMD-CERAMIC CAPACITOR				
C48	CC 0,7PF+-0,05PF 0603	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
	SMD-CERAMIC CAPACITOR				
C49	CC 1,0NF+-10%50V HDK 0603	CC 0009.4938.00	MURATA	GRM39X7R***K50C500PT	
	SMD-CERAMIC-CAPACITOR				
C50	CC 15PF+-1% 50VNPO 0603	0009.8227.00	VITRAMON	VJ0603A *** BXAT	
	SMD-CERAMIC-CAPACITOR				
C51	CC 100PF+-1% 50VNPO 0603	CC 0009.4680.00	MURATA	GRM39C0G***F50PT	
	SMD-CERAMIC-CAPACITOR				
C52	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
	ERAMIC CHIP CAPACITOR				
C53	CC 15PF+-1% 50VNPO 0603	0009.8227.00	VITRAMON	VJ0603A *** BXAT	
	SMD-CERAMIC-CAPACITOR				
C54	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
	ERAMIC CHIP CAPACITOR				
C55	CC 100PF+-1% 50VNPO 0603	CC 0009.4680.00	MURATA	GRM39C0G***F50PT	
	SMD-CERAMIC-CAPACITOR				
C56	CC 100PF+-1% 50VNPO 0603	CC 0009.4680.00	MURATA	GRM39C0G***F50PT	
	SMD-CERAMIC-CAPACITOR				
C57	CC 33NF+-10% 25V HDK 0603	1051.4697.00	AVX	CM105X7R333K25AT	
	ERAMIC CHIP CAPACITOR				
C58	CC 100PF+-1% 50VNPO 0603	CC 0009.4680.00	MURATA	GRM39C0G***F50PT	
	SMD-CERAMIC-CAPACITOR				
C59	CC 100PF+-1% 50VNPO 0603	CC 0009.4680.00	MURATA	GRM39C0G***F50PT	
	SMD-CERAMIC-CAPACITOR				
C60	CE 10UF+-20%35V RUND SMD	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
	SMD-ELECTROLYTIC CAPACIT.				
C61	CE 10UF+-20%35V RUND SMD	CE 0009.5605.00	PANASONIC	EEV HB 1V 100P	
	SMD-ELECTROLYTIC CAPACIT.				
C62	CC 0,7PF+-0,05PF 0603	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
	SMD-CERAMIC CAPACITOR				
	NICHT BESTUECKT				

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C63	CC 0,7PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NICHT BESTUECKT	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
C64	CC 0,7PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NICHT BESTUECKT	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
C65	CC 0,7PF+-0,05PF 0603 SMD-CERAMIC CAPACITOR NICHT BESTUECKT	0010.7150.00	AWX	0603 5J 0R7 AAW TR	
C66	CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR	CC 0009.4721.00	MURATA	GRM39C0G***F50PT	
D1	BL 74ACT86SC 4X 2IN-EXOR QUAD 2-INPUT EXOR GATE	BL 2005.4307.00	HARRIS	(CD74)ACT86(M)	
D2 ..5	BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH	0853.5579.00	ANZAC	SW239	
L1	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-K100	
L2	LD 2,2UH 10% 0,27A 1210 SMD-INDUCTOR	LD 0520.7870.00	SIEMENS	B82422-A1222-K100	
L3	LD 47 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6824.00	TOKO	LL2012-F47NK	
L4	LD 47 NH+-10% 0,3A 0805 SMD-MULTILAYER INDUCTOR	LD 0009.6824.00	TOKO	LL2012-F47NK	
L5	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L6	LD 1UH 10% 0,38A 1210 SMD-INDUCTOR	LD 6006.0130.00	SIEMENS	B82422-A1102-K100	
L7	LD 100UH 10% 0,06A 1210 SMD-INDUCTOR	LD 0007.9261.00	SIEMENS	B82422-A1104-K100	
L8	LD 22 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6730.00	TOKO	LL1608-F...K	
L9	LD 22 NH+-10% 0,3A 0603 SMD-MULTILAYER INDUCTOR	LD 0009.6730.00	TOKO	LL1608-F...K	
L10 ..21	XX ENTHALTEN IN INCLUDED IN				
L26	LD 1000UH+-20%0,3A SMD INDUCTOR	0048.4041.00	COILCRAFT	D03316P-105	
L28	LD 1000UH+-20%0,3A SMD INDUCTOR	0048.4041.00	COILCRAFT	D03316P-105	
L29 ..31	LD SP-DROSSEL 68UH 0,68A CHÖKE	1081.1821.00	SUMIDA	CDR74-680	
N1	BO CLC430AJE CF OPAMP IC CURRENT FEEDBACK OPAMP	2032.2524.00	COMLINEAR	CL(C)430AJE	
N2	BO CLC430AJE CF OPAMP IC CURRENT FEEDBACK OPAMP	2032.2524.00	COMLINEAR	CL(C)430AJE	
N3	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N4	BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER	0803.1057.00	TEXAS	TL 072 ACDR	
N5	BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER	0007.7823.00	TEXAS	TL074A(CD)	
N6	BO AD744KR FET OPAMP BIFET OPAMP	0854.1754.00	ANALOG_DEV	(AD)744KR	
P1 ..7	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P9	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
P10	VL EINPRESSTIFT L=6,8 PIN	VL 0010.7250.00	AMP	1-928776-5	
R1	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	ROEDERSTEI	DC2 27,4OHM 1%TK100	
R2 ..4	RG 100R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5334.00	DRALORIC	CR 0603 100R 1%TK200	
R5	RG 82,5 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9052.00	ROEDERSTEI	D11 0603OH	
R6	RG 7K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8440.00			
R7	RG 7K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8440.00			
R8	RG 18R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8385.00			
R9	RG 18R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8385.00			

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R10 ..19	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603 10K 1% TK200	
R20	RG 15K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7043.00	DRALORIC	CR 0603 15K 1% TK200	
R21	RG 392R+-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9300.00			
R22	RG 392R+-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9300.00			
R23 ..28	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603 10K 1% TK200	
R29	RG 15K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7043.00	DRALORIC	CR 0603 15K 1% TK200	
R30	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,10HM 1%TK100	
R31	RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8849.00	ROEDERSTEI	DC2 68,10HM 1%TK100	
R32 ..35	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5357.00	DRALORIC	CR 0603 10K 1% TK200	
R36	RS 0,25W 2KOHM +-20% SMD POTENTIOMETER	RS 0007.9626.00	SIEMENS	S4G-2KOHM	
R37	RG 3K3 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7014.00	ROEDERSTEI	D11 0603OH	
R38	RG 3K3 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7014.00	ROEDERSTEI	D11 0603OH	
R39	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,20HM 1%TK100	
R40	RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8826.00	ROEDERSTEI	DC2 56,20HM 1%TK100	
R41	RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5508.00	ROEDERSTEI	DC2 27,40HM 1%TK100	
R42	RG 39K2 +-1% TK200 0603 SMD-REGISTER	0010.9823.00			
R43	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603 1K 1% TK200	
R44	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603 1K 1% TK200	
R45	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	ROEDERSTEI	D11 0603OH	
R46	RG 1K5 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6999.00	ROEDERSTEI	D11 0603OH	
R47	RG 330R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6960.00	DRALORIC	CR 06030	
R48	RG 270R +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9581.00			
R49	RG 330R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6960.00	DRALORIC	CR 06030	
R50	RG 270R +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9581.00			
R51	RG 110 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9481.00	ROEDERSTEI	D11 0603OH	
R52	RG 110 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9481.00	ROEDERSTEI	D11 0603OH	
R53	RG 392R+-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9300.00			
R54	RG 470R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6976.00	ROEDERSTEI	D11 0603OH	
R55	RG 1K21 +-1% TK200 0603 SMD-REGISTER	0010.9817.00			
R56	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R57	RG 10R +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5328.00	DRALORIC	CR 0603	
R58 ..63	RG 24,3 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5495.00	ROEDERSTEI	DC2 24,30HM 1%TK100	
R64	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R65	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NICHT BESTUECKT	RG 0007.5108.00	DRALORIC	CR 1206	
R66	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R67	RG 2,0 OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8336.00	PHILIPS	RC 02	
R68	RG 2,0 OHM+-1%TK100 1206 CHIP-RESISTOR	RG 0007.8336.00	PHILIPS	RC 02	
R69	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	

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R70	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R71	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603 1K 1% TK200	
R72	RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM	RG 0007.5108.00	DRALORIC	CR 1206	
R73	RG 10K +-1% TK200 0603 SMD-RESISTOR EIA0603 NICHT BESTUECKT	RG 0009.5357.00	DRALORIC	CR 0603 10K 1% TK200	
R74	RG 1M0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5370.00	DRALORIC	CR 0603 1M 1% TK200	
..76	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	0
R77	RG 680K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7137.00	ROEDERSTEI	D11 0603	0H
R78	RG 680K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7137.00	ROEDERSTEI	D11 0603	0H
R79	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00			
R80	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00			
R81	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	0
R82	RG 560R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9630.00	DRALORIC	CR 0603	0
R83	RG 4R75 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8379.00			
R84	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603 1K 1% TK200	
R85	RG 4R75 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8379.00			
R86	RG 1K0 +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5340.00	DRALORIC	CR 0603 1K 1% TK200	
R87	RG 22K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7050.00	ROEDERSTEI	D11 0603	0H
R88	RG 2K0 +-1% TK200 0603 SMD RESISTOR	1097.6328.00			
R89	RG 2K0 +-1% TK200 0603 SMD RESISTOR	1097.6328.00			
R90	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	ROEDERSTEI	D11 0603	0H
R91	RG 150R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6947.00	ROEDERSTEI	D11 0603	0H
..94	RG 51,0 OHM+-1%TK200 0603 SMD-RESISTOR EIA0603	0009.9030.00	ROEDERSTEI	D11 0603	0H
R95	RG 47R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.6924.00	ROEDERSTEI	D11 0603	0H
..98	RG 3K92 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8427.00			
R99	RG 100K +-1% TK200 0603 SMD RESISTOR	RG 0009.5363.00	DRALORIC	CR 0603 100K 1%TK200	
..104	RG 357R +-1% TK200 0603 SMD RESISTOR	1097.6405.00			
R105	RG 357R +-1% TK200 0603 SMD RESISTOR	1097.6405.00			
R106	RG 3K92 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.8427.00			
..108	RG 3K92 +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	ROEDERSTEI	D11 0603	0H
R109	RG 56R +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.9646.00	ROEDERSTEI	D11 0603	0H
..112	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R113	RG 562 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT"	RG 0006.9068.00	ROEDERSTEI	DC2 562OHM 1%TK100	
R114	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R115	RG 121 OHM+-1%TK100 1206 CHIP RESISTOR NICHT BESTUECKT"	RG 0006.8903.00	ROEDERSTEI	DC2 121OHM 1%TK100	
R116	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00			
R117	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R118	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R119	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R120	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R121	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R122	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				
R123	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603				

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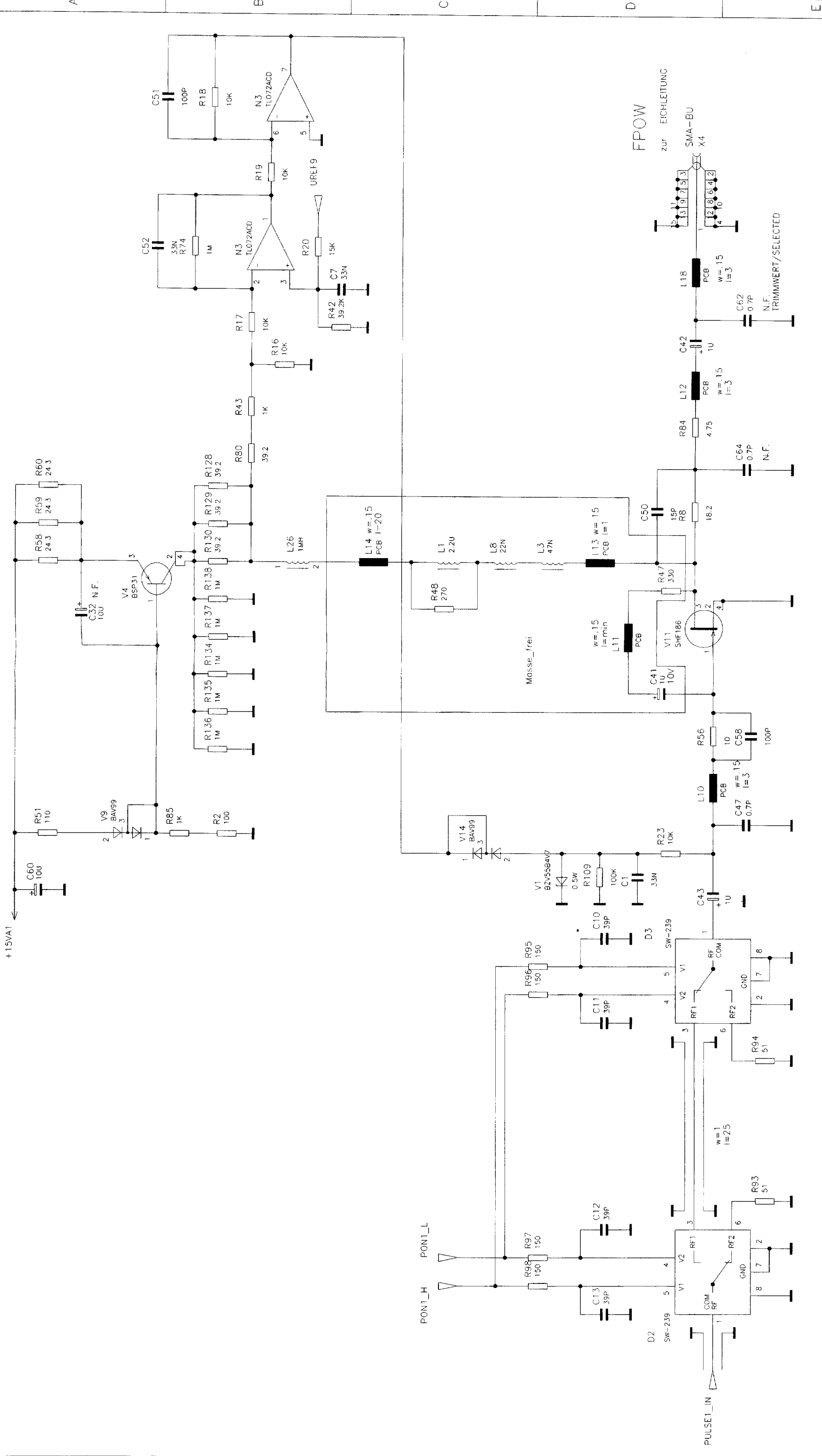
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Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
R124	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R125	RG 0-OHM WIDERSTAND 0603 O-OHM RESISTOR EIA0603 NICHT BESTUECKT	0009.9369.00	PHILIPS_CO	RC21 0 OHM	
R126	RG 150K +-1% TK200 0603 SMD-RESISTOR EIA0603	0009.7095.00	ROEDERSTEI	D11 0603OH	
R127	RG 39K2 +-1% TK200 0603 SMD-REGISTER	0010.9823.00			
R128	RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP	RG 0007.5543.00	ROEDERSTEI	DC2 39,20HM 1%TK100	
R134	RG 1MO +-1% TK200 0603 SMD-RESISTOR EIA0603	RG 0009.5370.00	DRALORIC	CR 0603 1M 1% TK200	
R144	RG 39R2 +-1% TK200 0603 SMD-RESISTOR EIA0603	0010.9400.00			
R150	RL 0,60W 8,25KOHM+-1%TK50 RESISTOR	RL 0083.1239.00	RESISTA	MK2	
V1	AE BZV55/C4V7 0.5W ZDI ZENER DIODE	AE 0006.9822.00	PHILIPS	BZV55B4V7	
V2	AE BZV55/C4V7 0.5W ZDI ZENER DIODE	AE 0006.9822.00	PHILIPS	BZV55B4V7	
V3	AE 1N827 6,2V REF DI REFERENCE DIODE	AE 0418.0029.00	COMPENSATE	1N827(A)	
V4	AK BSP31 P 60V 1A TRAN TRANSISTOR	1085.1755.00	PHILIPS_SE	BSP31	
V5	AK BSP31 P 60V 1A TRAN TRANSISTOR	1085.1755.00	PHILIPS_SE	BSP31	
V6	AD BAS32 75V UDI DIODE	AD 0006.7288.00	PHILIPS	BAS32 (L)	
V9	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V10	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V11	AM SHF0186 SELEC.9V GAASF TRANSISTOR GAASFET	1062.9308.00			
V12	AM SHF0186 SELEC.9V GAASF TRANSISTOR GAASFET	1062.9308.00			
V13	AE BAT62 1+1 40V SCHOTTKY DIODE PAIR	1051.4045.00	SIEMENS	BAT62 (62)	
V14	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V15	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V16	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V17	NICHT BESTUECKT AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V18	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V19	NICHT BESTUECKT AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V20	AE HSMS2810 SCHOTTKY DIODE	0520.7340.00	HEWLETT_PA	HSMS2810	
V21	AE BZV55/C8V2 0,5W ZDI ZENER DIODE	AE 0006.9874.00	PHILIPS	BZV55B8V2	
V22	AE BZV55/C8V2 0,5W ZDI ZENER DIODE	AE 0006.9874.00	PHILIPS	BZV55B8V2	
V23	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V24	AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR	1010.6214.00	HEWLETT_PA	HSMS2825 L31	
V25	AD BAV99 70V DUO UDI DIODE	AD 0911.0092.00	VALVO	BAV99	
V26	AE BZV55/C5V6 0.5W ZDI ZENER DIODE NICHT BESTUECKT"	AE 0006.9845.00	PHILIPS	BZV55B5V6	
V27	AD BAS32 75V UDI DIODE NICHT BESTUECKT"	AD 0006.7288.00	PHILIPS	BAS32 (L)	
X1	FP STECKERLEISTE 16P.WIN CONNECTOR	FP 0738.5341.00	SIEMENS	V23535-A2210-162	

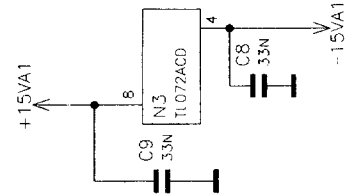
MENP5	413 3PUA	ÄI	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
		05	16.09.97	ED POWERMODUL	1062.7240.01 SA	5+

Kennz. Comp. No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X2	FJ EINLOETBUCHSE SMA CONNECTOR	1085.1726.00	SUHNER	82SMA-S-50-0-45/111	
X3	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KE	
X4	FJ EINLOETBUCHSE SMA CONNECTOR	1085.1726.00	SUHNER	82SMA-S-50-0-45/111	
X5	FJ EINLOETBUCHSE MMCX CONNECTOR	1085.1532.00	SUHNER	82MMCXS50-0-2/111KE	
X6	FJ EINLOETBUCHSE MMCX SMD CONNECTOR NICHT BESTUECKT	1085.2045.00	IMS	1863.09.2620.001(003	
Z1 ..6	LD SMD-T-FILTER 3,3NF SMD-FILTER	1039.1362.00	MURATA	NFM61R20T332T1	

MENP5	413	3PUA	Äl	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock No.	Blatt-Nr. Page
			05	16.09.97	ED POWERMODUL	1062.7240.01 SA	6-



Pulsmodulator



02.03.			El	MENP	DATUM	NAME
				BEARB.		El
				GEPR.		El
				NORM		
				PLOTT	23.9.97	IMMERZ
				ROHDE & SCHWARZ		
AEND.	AENDERUNGS-				DATUM	NAME

 ACHTUNG: EGR !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFOORDERN EINE
BESONDERE HANDLUNG.

 ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

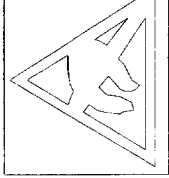
POWERMODUL

ROHDE & SCHWARZ

1062.7240.01 S

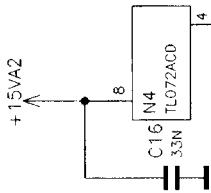
BLATT-NR.	2 +
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FÜR DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

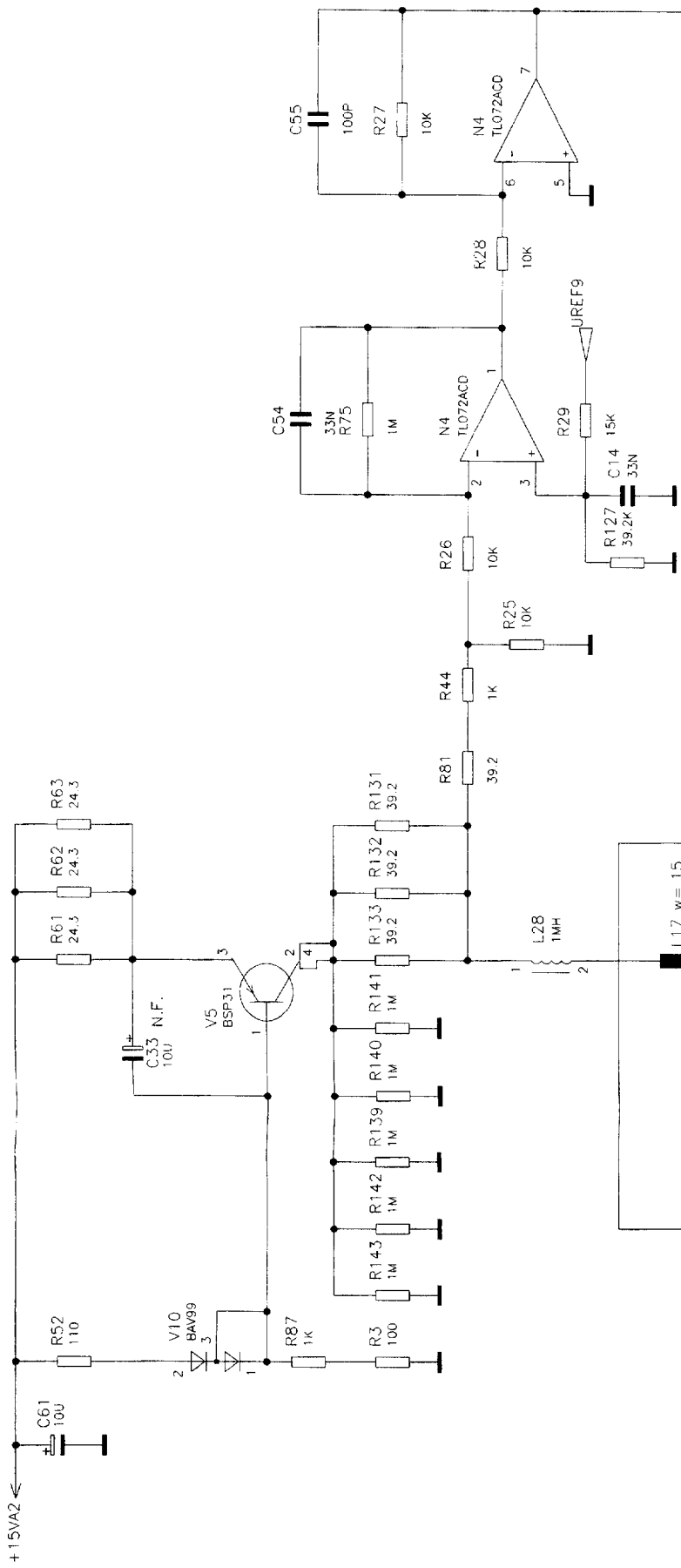
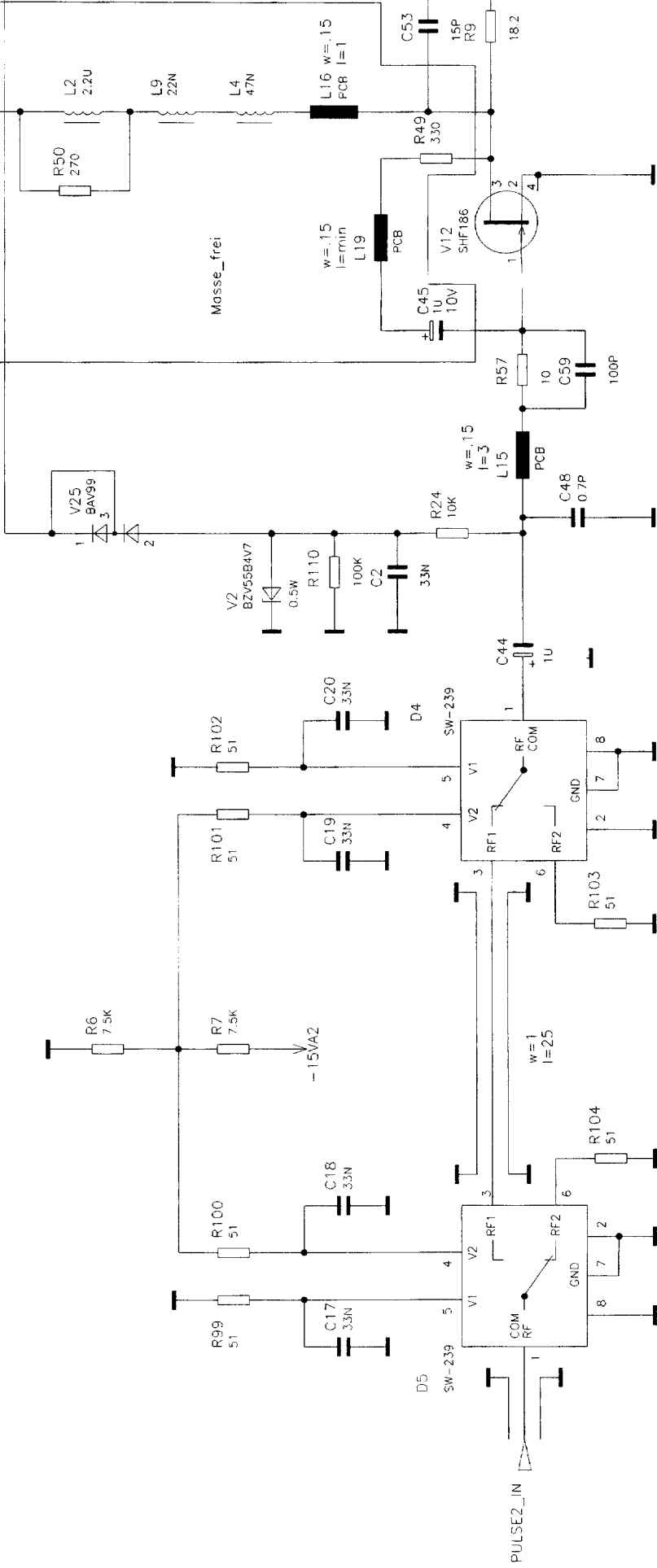


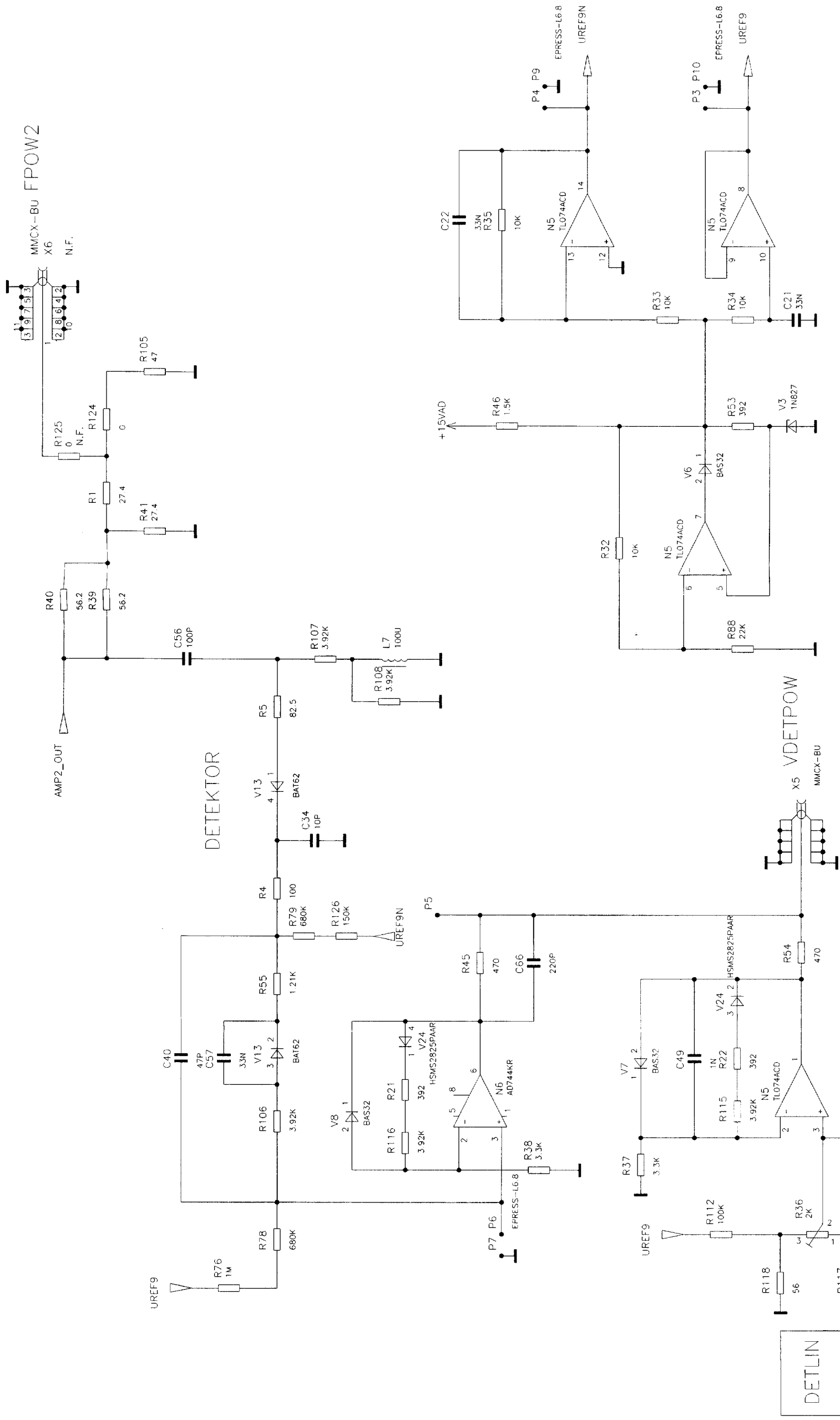
ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

Pulsmodulator_Referenz



RF-AMPLIFIER2



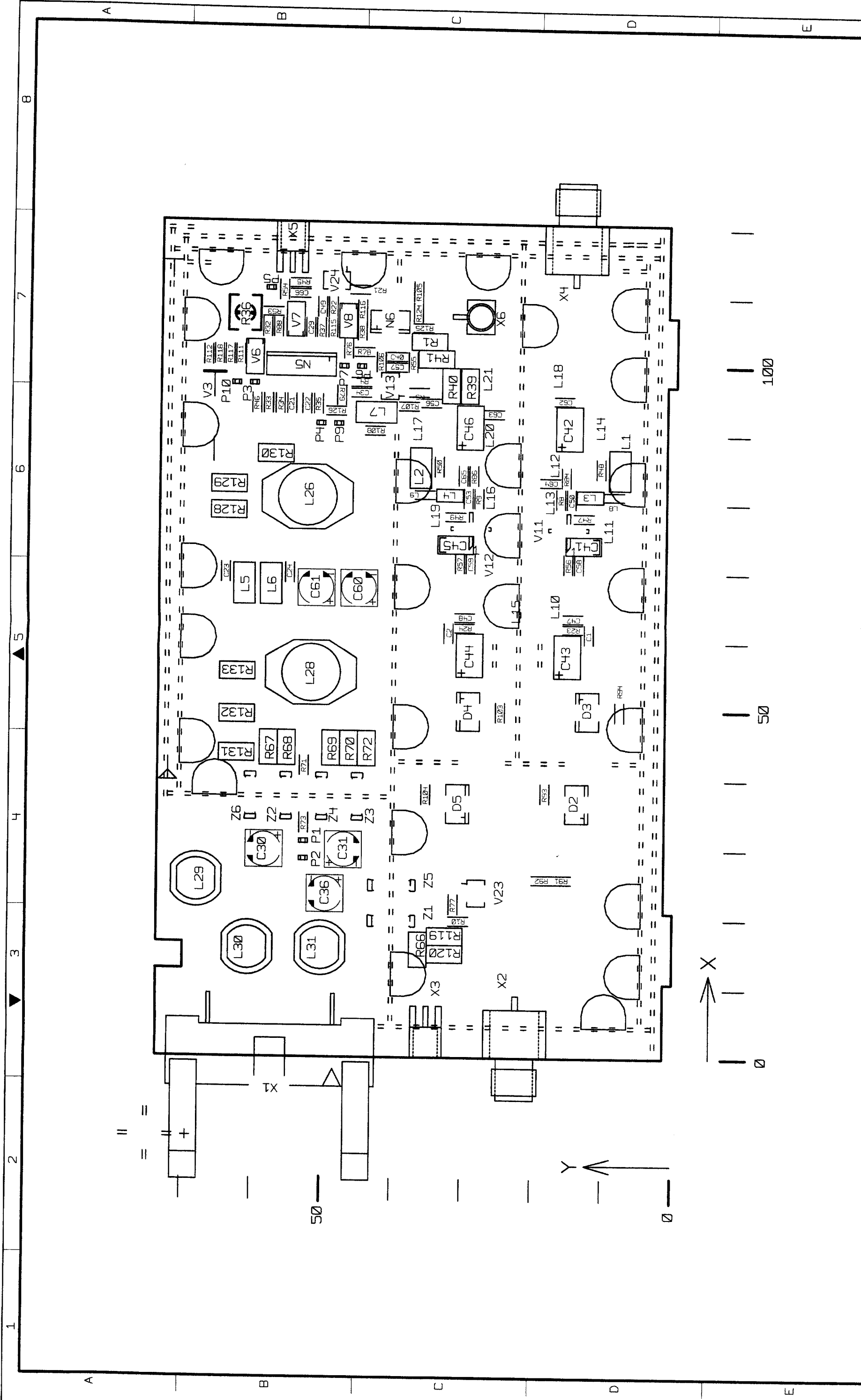


ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG

ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

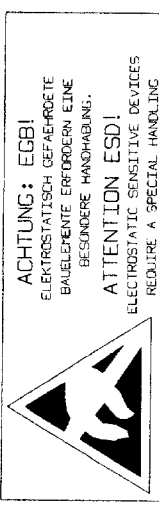


02.03		EI	MENP	DATUM	NAME	BENENNUNG POWERMODUL TOP/TOP.4	BLATT-NR. 4 -
			BEARB.		EI		
			GEPR.		EI		
			NORM				
			PLOTT	23.9.97	IMMERZ		
			ROHDE&SCHWARZ			ZEICHN.-NR.	1062.7240.01 S
AEND. IND.	AENDERUNGS-IND.	DATUM	NAME				



BEHALTEN WIR UNS ALLE RECHTE VOR
FÜR DIESE UNTERLADE

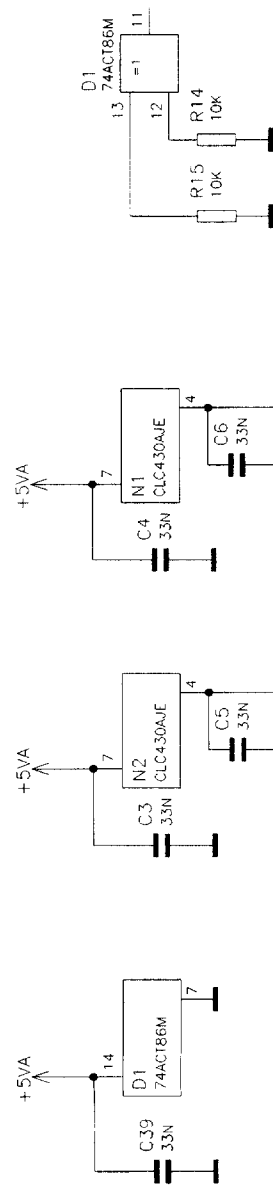
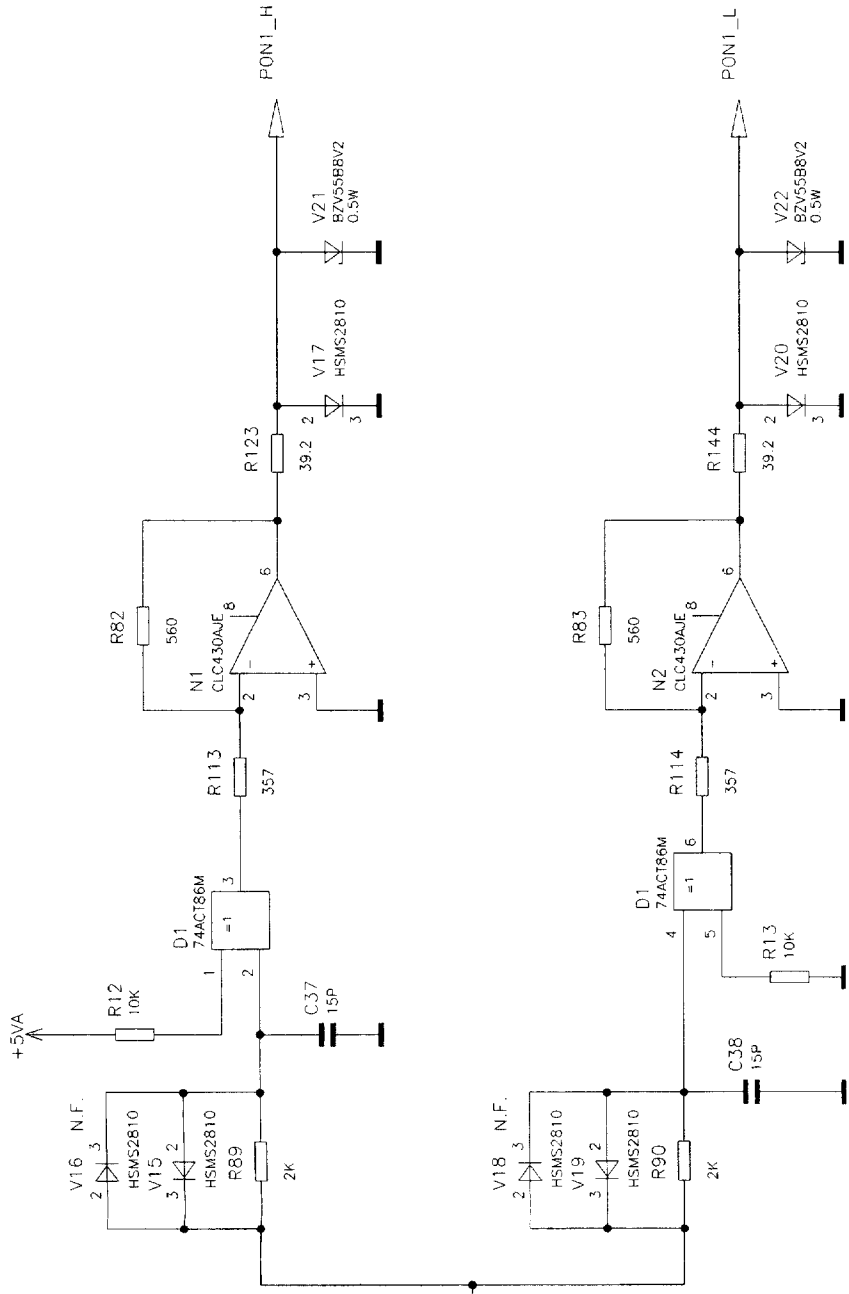
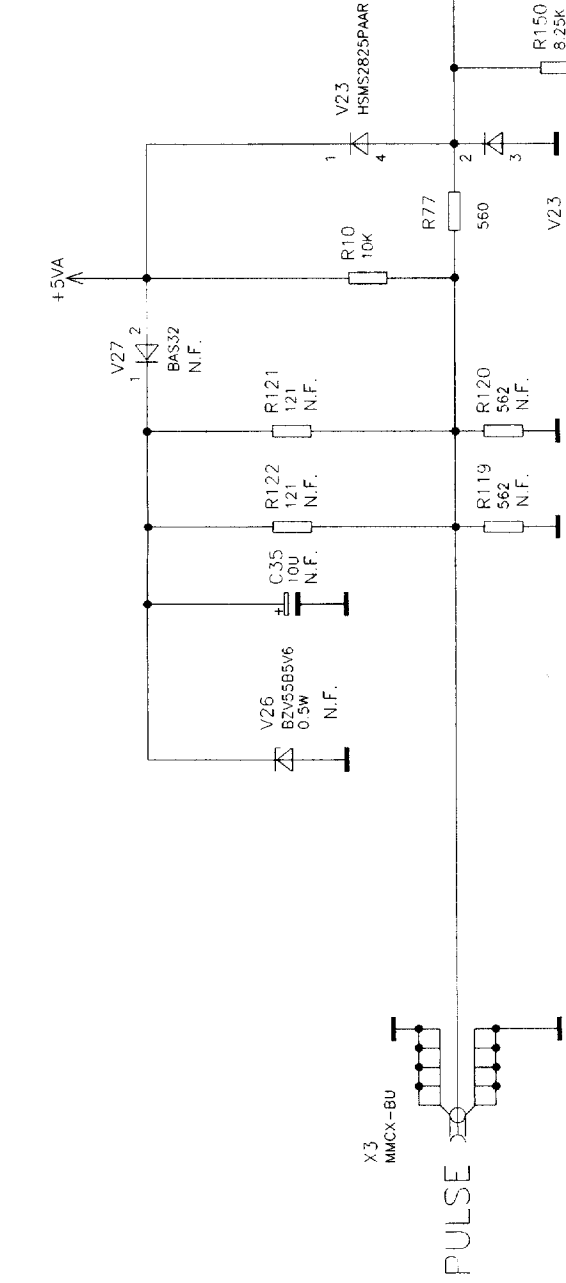
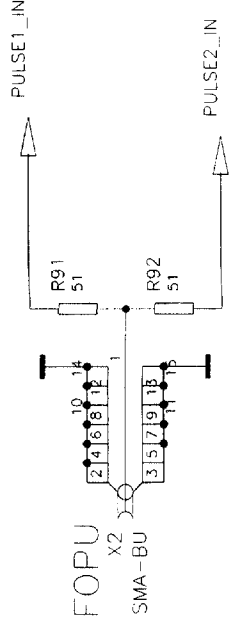
DARSTELLUNG SEITE B
VIEW ON SIDE B



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

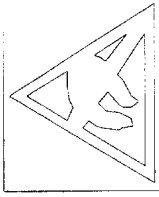
BINDENDE ANGABEN LIEßER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTÜCKTE BAUTEILE SIEHE SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

02	14.03.97	H0			1GPK	DATUM	NAME	BENENNUNG POWERMODUL
					BEARB.		H0	
					GEPR.		H0	
					NORM			
					PLOTT	21.04.97	HOFBERGE	
01								ZEICHN.-NR. 1062 7340 01 D
								BLATT-NR. 1+



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

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



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

BENENNUNG
POWERMODUL

02.03	EI	MENP	DATUM	NAME
		BEARB.		EI
		GEPR.		EI
		NORM		IMMERZ
		PLOTT	23.9.97	

AEND. IND. AENDERUNGS-MITTEILUNG

DATUM NAME

ZUGEFRAGT SMY44

REG. I.V. 1062 5502

ERSIEZ. 0000.0000.00

ZEICHN.-NR. 1062.7240.01 S

TOP/TOP-1

1 +

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR