



ROHDE & SCHWARZ

SERVICE DOCUMENTS

E 6 GHZ Board

1084.9600.00

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Coordinates list
Circuit diagram
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7. Testing and Repair of the Board

7.1. Function Description

The E6GHZ board extends the frequency range of the SMIQ03 by the range 3300 to 6400 MHz.

The IQ300 signal at X504 from the IQMOD module (300 MHz, IQ-modulated) is up-converted to 900 MHz using MIXER2 (IF900). Unwanted mixer products at the output of MIXER2 are filtered off by means of bandpass filters.

The REF600 signal at X502 from the reference/step synthesis (600 MHz) is doubled and serves as LO for MIXER2 (1200 MHz).

MIXER1 converts IF900 to the range 3300 to 6400 MHz. The LO signal (4200 to 6000 MHz) for MIXER1 is generated by doubling the FIQOUT signal of the IQMOD at X505.

Unwanted mixer products at the output of MIXER1 are suppressed by means of bandpass filters and a switched filter bank containing bandpass filters and tunable highpass and lowpass filters in 4 paths.

A level control element (LEVEL PRESET) preceding the filter bank permits to set the operating point of the amplitude modulator (instrument calibration routine Level Preset). Following the filter bank, the output level of the instrument is set by the amplitude modulator.

The thin-film unit POWERUNIT includes the output stage and a detector, which detects the output level of the instrument for the frequency range 3300 to 6400 MHz. There, the signal from the IQMOD (FIQOUT at X505) is also directly through-connected to the module output (IQOUT6 at X506) for frequencies < 3300 MHz.

7.1.1. Input REF600

The REF600 signal at X502 (600 MHz, 13 dBm) is split up via a power divider, taken via an amplifier and again provided as output signal at X501 REF600E for IQMOD (600 MHz, 13 dBm) and doubled as LO signal for MIXER2 to 1200 MHz, filtered and amplified to a controlled LO level of 17 dBm.

7.1.2. Input IQ300

The IQ300 signal at X504 (300 MHz, -9 dBm) is split up via a power divider, taken via an amplifier and again provided as output signal at X503 IQ300AUX (300 MHz, -9 dBm) and is used as RF signal for MIXER2 (level -12 dBm).

7.1.3. IF900 - IF Signal of Mixer2

The IF signal of MIXER2 (900 MHz) is filtered and amplified and taken to the RF connector of MIXER1 (level -12 dBm). The RF level at X2 is adjusted to -12 dBm by means of LEVEL IF900 (R848).

7.1.4. LO Conditioning for Mixer 1

For LO conditioning, the FIQOUT signal is doubled by the POWERUNIT at X9 from 2100 to 3000 MHz to 4200 to 6000 MHz. For suppression of subharmonics, the lowpass filter LP5100 is cut in at frequencies at FIQOUT < 5100 MHz. A level control ensures a constant LO level at X1 (17 dBm).

7.1.5. RF Path at IF Output of Mixer1

The mixer output signal (-18 dBm) is taken via amplifiers and filters to the level preset control element and via the filter bank and the AM modulator to the input X6 of the POWERUNIT. The amplifier stages have a gain (S21) of approx. 8 dB each, thus compensating for the filter attenuations.

7.1.6. Filter Bank

The tunable filters are set according to the frequency; the necessary data is determined in the module test in the production and contained in the EEPROM of the module.

Each tracking filter is driven by a tuning voltage. IQFILT1 and IQFILT2 drive the lowpass filters, IQFILH1 and IQFILH2 the highpass filters. In the deactivated filter paths, the respective lowpass filters are set to minimum and the highpass filters to maximum tuning voltage via selector switches (0 or 20 V).

The four control bits FILOFF1 to FILOFF4 check the selector switches and the ON/OFF functions of the filter paths.

There are four frequency ranges:

Frequency range	SMIQ output frequency	FIQOUT from IQMOD	LO frequency Mixer 1	Sideband	Control signal LP5100_ON
FB1	3300 to 4200 MHz	2100 to 2550 MHz	4200 to 5100 MHz	lower	L
FB2	4200 to 5100 MHz	2550 to 3000 MHz	5100 to 6000 MHz	lower	H
FB3	5100 to 6000 MHz	2100 to 2550 MHz	4200 to 5100 MHz	upper	L
FB4	6000 ... 6400 MHz	2550 ... 2750 MHz	5100 ... 5500 MHz	upper	H

7.1.7. RF Level Control

The command value for the amplitude modulation ($f > 3.3$ GHz) and the level control is applied to the module via X500.A2 UREFAM. At frequencies < 3.3 GHz, the control bit AM_ON switches over to a command value generated on the module, since the amplitude modulation is already generated on the IQMOD module. The temperature-compensated and linearized detector output voltage is applied as actual value to the control amplifier N29, which drives the AM modulator.

The level linearity is adjusted using trimmers RF DC ZERO (R394) and DETECTOR OFFSET (R173). The nominal value for the level control is set via D/A converter D2. The control bandwidth is switched over via control bit AM_SLOW_ON. For the IQ mode or in the operating mode "ALC OFF MODE TABLE", the AM modulator is controlled by the level D/A converter (ALC_ON = Low, DETOUT_ON = Low), N29 will then operate as amplifier.

7.1.8. Diagnosis

Diagnosis voltages determined via RF rectifiers feature large tolerances and can only be used as indicators (RF level present / not present). RF test points without directional couplers do not detect the forward power, but the RF voltage, which is to a large extent dependent on the matching (impedance) and therefore features large fluctuations versus the frequency.

7.2. Measuring Instruments and Auxiliary Means

- DC voltmeter, ammeter (e.g. UDS5)
- RF power meter (e.g. NRVD)
- RF spectrum analyzer up to 20 GHz (e.g. FSM)
- RF network analyzer up to 8 GHz (e.g. ZVC)

7.3. Troubleshooting

For first error diagnosis it is recommended to use the test program included in the service kit, which offers comprehensive possibilities.

Before starting more detailed troubleshooting in the RF paths, it is recommended to check the serial interface for correct data transmission and the diagnosis, reference, operating point and control voltages for the correct value.

7.3.1. RF Level

Error message:

ALC LOOP FAILURE

No level

or

**fault during
Level Preset calibration
at frequencies > 3.3 GHz**

**Level cannot be varied at all
frequencies > 3.3 GHz**

**No level in only one frequency
range FB1 to FB4 of the filter
bank**

**Level linearity out of
tolerance**

First check at which frequencies the level control does not work. To this end, check the frequency ranges FB1 to FB4 of the filter bank.

Check control voltages of the LO level control loops.

Check diagnosis voltages of the RF test points.

Check detector and control amplifier.

Perform RF level adjustment

Check detector, level D/A converter and control amplifier

Fault at RF-SWITCH1 or RF-SWITCH2, missing or faulty control voltage of tunable filters. Check the RF chain of the filter bank using network analyzer

Perform adjustment

7.3.2. Spectral Purity of Output Signal IQOUT6

Too small harmonics	Check operating point of RF amplifier in POWERUNIT, harmonics at X6, operating points of amplifiers in RF path.
Too small spurious responses at $f_{nw} = 0.5*(f_{RF} \pm 900 \text{ MHz})$	Chip of switch or switch control in POWERUNIT faulty, braided cord in upper module cover in the area of the POWERUNIT missing.
Too small spurious responses at 300 MHz from carrier	LO level of MIXER1 is faulty, bandpass filters in the IF900-path faulty
Too small spurious responses at 600 kHz from carrier	Module cover does not fit tightly, bandpass filters in the LO 1200 path faulty
Too small spurious responses at 900 MHz from carrier	LO suppression by the tracking or permanent filters of the filter bank is insufficient. Determine the faulty frequency range of the filter bank FB1 to FB4, check the tuning voltages, measure from X4 to X8 using network analyzer.

7.4. Testing and Adjustment

All measured values with no tolerance indicated are meant to be understood as reference values.

Plug the board onto the adapter included in the service kit and set up the RF connections. The adapter can then be plugged into the chassis together with the board.

Before carrying out any tests, set the instrument to a defined initial status by means of PRESET.

7.4.1. Testing the Data Transmission

The board is addressed via the serial interface. Subaddress 1 is used for the data transmission, . Subaddress 2 is used for reading and writing to the EEPROM, which contains calibration data for the filter control.

Testing: When changing between the frequencies $f_1 < 3.3 \text{ GHz}$ and $f_2 > 3.3 \text{ GHz}$, the bit SWE6-ON at D14/4 must change between low and high.

7.4.2. Testing the Reference Voltages

Test point	Nominal value/V
X20.3	10 ± 0.010
X20.2	-10 ± 0.010
X20.1	4.55 ± 0.02

7.4.3. Testing the Operating Points of the Amplifier Stages

Use a DC voltmeter to check the voltages. Measure at the collector or drain connector.

Circuit diagram sheet	Amplifier	Component No.	Ic/mA	U/V
3	RFAMP23	N38	70	4.9 ± 0.1
3	RFAMP24	N39	70	4.9 ± 0.1
4	RFAMP25	V19	58	4.4 ± 0.1
4	RFAMP26	V20	58	4.4 ± 0.1
5	RFAMP27	V87	62	4.4 ± 0.1
5	RFAMP28	V91	127	4.7 ± 0.1
5	RFAMP28	V91/UG2		$-4 \dots -0.5$
6	RFAMP29	N3	80	4.8 ± 0.1
8	RFAMP30	N4	80	4.8 ± 0.1
9	RFAMP2	N15	100	5.25 ± 0.1
10	RFAMP3	N17	75	5 ± 0.1
12	RFAMP4	N14	83	2.8 ± 0.2
12	RFAMP5	V90	140	7.1 ± 0.1
13	RFAMP6	N25	80	3.4 ± 0.2
14	RFAMP7	V92	93	7.1 ± 0.1
14	RFAMP7	V92/Gate		$-2 \dots -0.5$
17	RFAMP9	N22	80	3.4 ± 0.2
18	RFAMP10	N23	80	3.4 ± 0.2
19	RFAMP11	N18	80	3.4 ± 0.2
20	RFAMP12	N19	80	3.4 ± 0.2
21	RFAMX16.1	N20	80	3.4 ± 0.2
22	RFAMP14	N21	80	3.4 ± 0.2
23	RFAMP15	N24	80	3.4 ± 0.2
24	RFAMP16	N9	80	3.4 ± 0.2
26	RFAMP19	V94	93	7.1 ± 0.1
27	RFAMP20	V95	93	7.1 ± 0.1
28	RFAMP22	N37		3.4 ± 0.2
29	POWER UNIT Vcc	P11	500	7.3 ± 0.2
29	POWER UNIT Vgg	P12		$-5 \dots -0.5$

7.4.4. Testing the Switching Voltages of RFSWITCH 1

Use a DC voltmeter to check the voltages. (Tolerance ± 0.3 V)

	Test point	Filter OFF	FB1 on	FB2 on	FB3 on	FB4 on
SYNFIL 0	C891	4.42	4.18	-1.65	-1.65	4.55
SYNFIL 1	C753	9.80	-0.76	9.80	9.80	9.80
SYNFIL 2	C892	-10.00	-10.00	3.30	-10.00	-10.00
SYNFIL 3	C757	9.83	9.83	9.83	-3.30	9.83
SYNFIL 4	C755	-10.03	-10.03	-10.03	-10.03	6.21

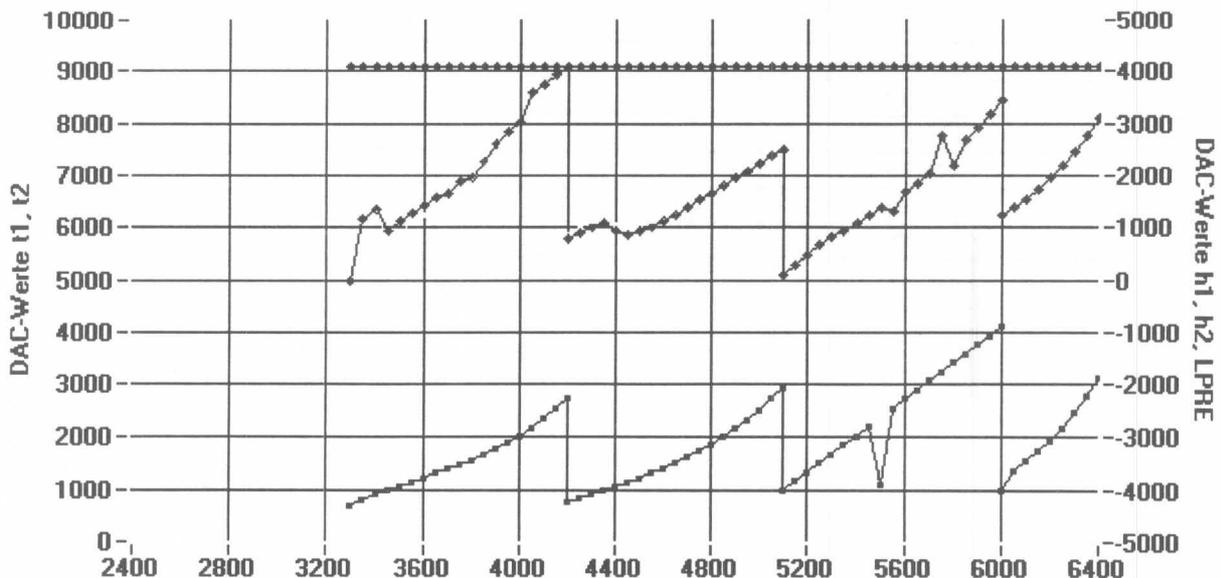
7.4.5. Testing the Switching Voltages of RFSWITCH 2

Use a DC voltmeter to check the voltages. (Tolerance ± 0.3 V)

	Test point	Filter OFF	FB1 on	FB2 on	FB3 on	FB4 on
SYNFIL 0N	C895	-1.67 V	-1.67 V	4.22 V	4.58 V	-1.67 V
SYNFIL 1N	C894	-9.82 V	3.34 V	-9.82 V	-9.82 V	-9.82 V
SYNFIL 2N	C899	9.97 V	9.97 V	-0.76 V	9.97 V	9.97 V
SYNFIL 3N	C898	-9.83 V	-9.83 V	-9.83 V	6.24 V	-9.83 V
SYNFIL 4N	C897	10.05 V	10.05 V	10.05 V	10.05 V	-3.32 V

7.4.6. Testing the Tuning Voltages

The diagram shows general characteristics of the tuning voltages. Individual calibration data may deviate from this curve; usually, there are deviations from the smooth tuning characteristics because of the calibration process. The upper curves show IQFILH1 and IQFILH2, the lower ones IQFILT1 and IQFILT2 (identical in this case). All 4 voltages can be read out via the diagnosis ($U_{diag} = 20V * DACWERT/4095$).



7.4.7. Testing the RF Signal Paths

The module accommodates SMP or MMCX test connectors X1 to X9. At these coaxial interfaces, matching and gain can be measured using a network analyzer, for example. For this purpose, the coupling capacitor, which is located at this place in the signal path, must be soldered from the desired input or output to the test connector. In addition to a number of coupling capacitors in the signal path, there are grounded through-connections (GND). There, it is possible, e.g. to solder in a coaxial cable and connect its inner conductors to the signal path. For specifications of nominal gain or nominal level please refer to the block diagram. S-parameter measurements in the frequency range 3 to 6 GHz require extensive equipment and knowledge. Therefore, such measurements should only be performed by trained personnel.

7.4.8. Adjusting the Drain Current of A510 in the POWER UNIT

Cut in the ammeter at X14.1 - X14.2.
Use trimmer R172 to adjust the current to 500 ± 5 mA.

7.4.9. Adjusting the Reference 10 V

Use trimmer R608 to adjust to $10 \text{ V} \pm 0.001 \text{ V}$ at the test point X20.4.

7.4.10. RF-DC-ZERO Adjustment at Output Detector

Remove jumper at X14.1-X14.2, set the voltage at X16.1 (reference X16.2) to $-17 \text{ mV} \pm 0.5 \text{ mV}$ using potentiometer R394, plug in the jumper at X14.1-X14.2.

7.4.11. Adjusting the RF Level Linearity

Instrument settings: PRESET, RF 3301 MHz, LEVEL 2.1 dBm, LEVEL/LEVEL/ATTENUATOR MODE FIXED.

Connect power sensor of power meter to RF connector of SMIQ. Save the measured value as reference value on the power meter and select the Δ dB display. Set LEVEL -18.1 dBm.

Use potentiometer R173 to adjust the DETECTOR OFFSET to 20-dB drop on the power meter.

By adjusting alternately using potentiometer R173 and potentiometer R394 (RF-DC-ZERO), the level deviation from the nominal value can be minimized in the level range -20 dBm to 13 dBm.

7.4.12. Adjusting the IF900 Level

Remove the module, unscrew the screening cover.

Unsolder the coupling capacitor C663 from the signal path and solder in such that R625 is connected to X2.

Place the module onto the service adapter, set up the RF connections, install the adapter into the instrument. Make sure to allow for sufficient cooling of the module, since the cooling effect of the screening covers and the air current is missing.

Instrument setting PRESET, RF 3301 MHz.

Connect a power meter to X2 and measure the level ($f = 900$ MHz). Adjust the RF level at X2 to -12 dBm using LEVEL IF900 (R848).

7.4.13. Calibration of the Tunable Filters

The filters are calibrated in the factory in the module pretesting. This is necessary when replacing tuning diodes in the tunable filters or the EEPROM.

7.4.14. Tables and Interfaces

7.4.14.1. Diagnosis

RF: Diagnosis voltage determined via RF rectifier.

IR: Interrupt at processor when the permissible thresholds are exceeded.

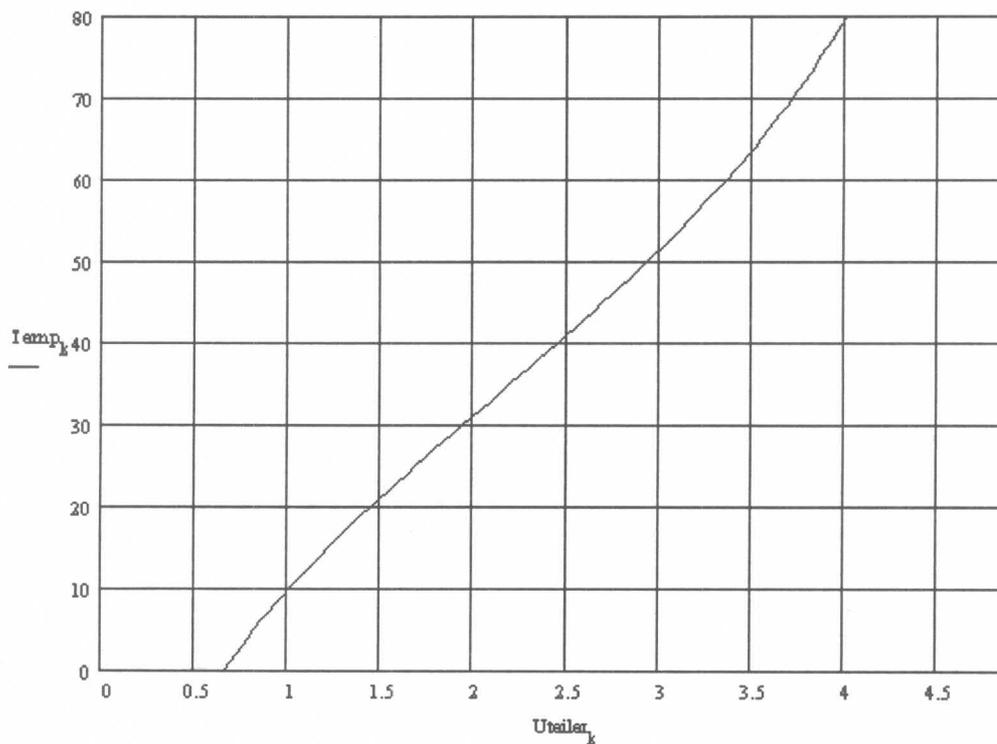
TF: Division factor (corresponds to voltage divider ratio at test point).

Diagnosis multiplexer D27:

Diag. point SMIQ	Test point	Type	IR	Umin/ Volt	Umax/ Volt	TF
10 2400	Reference 10 k Ω	DC		-10m	+10m	1
11 2401	VDETOUT Output level of module	RF		0	10	4
12 2402	UTEMP	DC		0	5	1
13 2403	Free					
14 2404	IQFILT1 tuning voltage LP tracking filter	DC		0	20	5
15 2405	IQFILT2 tuning voltage LP tracking filter	DC		0	20	5
16 2406	IQFILH1 tuning voltage HP tracking filter	DC		0	20	5
17 2407	IQFILH2 tuning voltage HP tracking filter	DC		0	20	5

Diagnosis multiplexer D25:						
Diag. point SMIQ	Test point	Type	IR	Umin/Volt	Umax/Volt	TF
20 2408	Control voltage for level preset	DC		0	10	3
21 2409	Level ahead of filter bank	RF		0		3
22 2410	Level ahead of AM Mod.	RF		0		3
23 2411	Level ahead of POWERUNIT	RF		0		3
24 2412	IF900 Level	RF		0		3
25 2413	AM control voltage	DC	IR	-15	15	3
26 2414	LO-MIXER1 control voltage	DC	IR	-15	15	3
27 2415	LO-MIXER2 control voltage	DC	IR	-15	15	3

Module temperature vs. Udiag12 (SMIQ diagnosis No. 2402):



7.4.14.2. Serial Data (Subaddress 1)

Byte	Bit	Designation	Function	Control logic
11	7	free		HEX code: 0E 0D 0B 07 0F 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1
	6	free		
	5	free		
	4	free		
	3	FILOFF4		
	2	FILOFF3		
	1	FILOFF2		
	0	FILOFF1		
10	7	IQFIL_H2	Tuning voltage	MSB
9	4	[12]	2 of highpasses	LSB
9	3	IQFIL_H1	Tuning voltage	MSB
8	0	[12]	1 of highpasses	LSB
7	7	IQFIL_T2	Tuning voltage	MSB
6	4	[12]	2 of lowpasses	LSB
6	3	IQFIL_T1	Tuning voltage	MSB
5	0	[12]	1 of lowpasses	LSB
4	7	BLANK_ENA	Function of BLANK line	1 active 0 deactivated
	6	BLANK_INV	Polarity of BLANK line	1 Blanking with BLANK = 0 0 Blanking with BLANK = 1
	5	DETOUR_ON	Switch for detector output	Detector connected to controller as actual value (ALC ON) 0 ALC OFF
	4	AM_SLOW	Switchover of ALC control bandwidth	1 ALC control bandwidth slow 0 ALC control bandwidth normal
	3	ALC_ON	Switchover between CW and IQ mode/ level control from table	1 ALC ON: Automatic level control on. 0 ALC OFF: Automatic level control off.
	2	AM_E6	Level reference voltage	1 AM signal from motherboard 0 6-V reference for RF level from module E6GHz
	1	LEV_OFF	Level reduction	1 Level off 0 Level on
	0	SWE6_ON	controls signal path in POWER UNIT	1 Frequency range 3.3 to 6.4 GHz 0 Frequency range 0.3 to 3300 MHz

Byte	Bit	Designation	Function	Control logic
3	7	LEVEL [12]	Level setting	Bit 11
2	4			Bit 0
2	3	LEVEL	Level	Bit 11
1	0	PRESET [12]	Preset	Bit 0
0	7	LOSYN_OFF	Switch for LO Mixer1	1 LO off (0.3 to 3300 MHz) 0 LO on (3.3 to 6.4 GHz)
	6	LO-MIXER2 _OFF	Switch for LO Mixer2	1 LO off (0.3 to 3300 MHz) 0 LO on (3.3 to 6.4 GHz)
	5	free	Selection	
	4	DMUX_2	diagnosis	0 DMUX1 1 DMUX2 0 off
	3	DMUX_1	multiplexer	1 0 0
	2	AMUX_2	Address	MSB
	1	AMUX_1	diagnosis	Address 0 to 7
	0	AMUX_0	multiplexer	LSB

7.5. Disassembly and Assembly

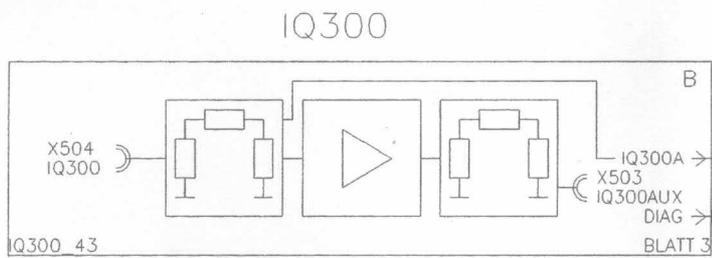
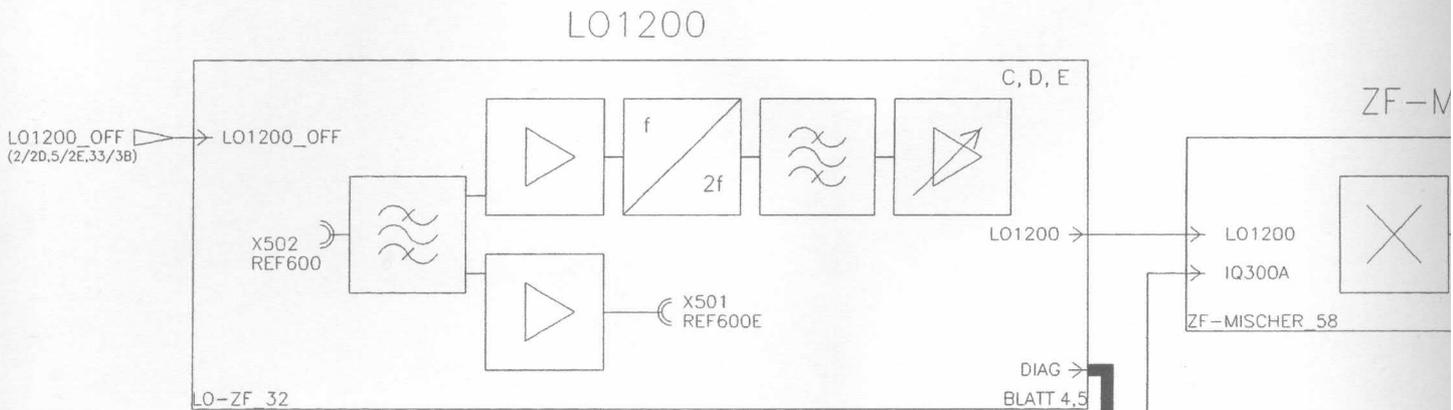
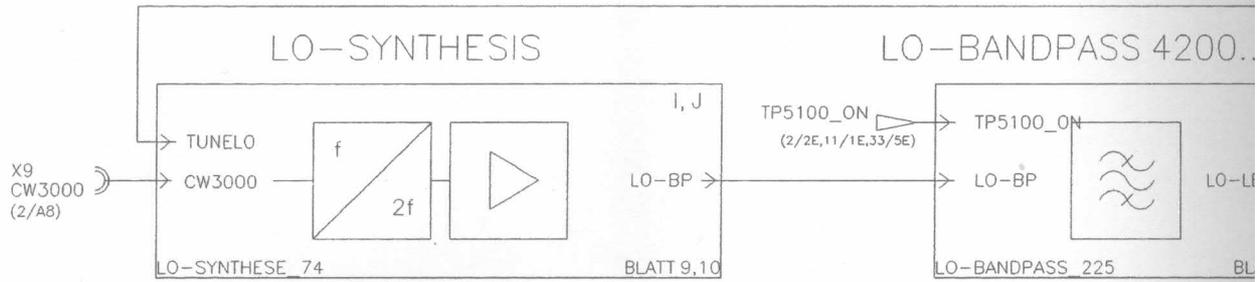
After opening the instrument, unlocking the module and loosening the RF connections, the module can be taken out of its slot. The screening covers of the module are fastened with screws; loosen the screws of the upper cover first and tighten them last.

For mounting the POWERUNIT observe the mounting instructions (see component location plan).

7.6. External Interfaces

Signal name	from module	Signal data	Remark
IQ300	IQMOD (IQ AUX)	300 MHz \pm 50 MHz for IQ modulation -9 dBm \pm 0.1 dB 50 ohms S11 < -15 dB	
REF600	Reference/ step synthesis	600 MHz 13 dBm \pm 1 dB 50 ohms S11 < -15 dB	
VREFAM	IQMOD	DC ... 100 kHz 6 VDC \pm (AM * 6 V)	Modulation signal for AM
FIQOUT	IQMOD	<u>IQ/CW 0.3 to 3300 MHz</u> -15 to +16 dBm <u>CW 2100 to 3000 MHz</u> 13 dBm 50 ohms	<u>F \leq 3300 MHz:</u> IQMOD signal is through-connected to attenuator <u>F > 3300 MHz:</u> IQMOD in CW mode
	to module		
IQ300AUX	Instrument rear	300 MHz \pm 50 MHz for IQ modulation 50 ohms S11 < -15 dB S22 < -20 dB	IQ300 through- connected, P(IQ300) \pm 0.5 dB
REF600E	IQMOD	600 MHz from REF600 through- connected 50 ohms S22 < -15 dB	REF600 through- connected, P(REF600) \pm 0.5 dB
IQOUT6	Attenuator	<u>IQ/CW 0.3 to 3300 MHz:</u> -17 to +16 dBm <u>IQ 3300 to 6400 MHz:</u> -15 to +16 dBm 50 ohms S22 < -15 dB	through-connected signal, approx. 2 dB attenuation

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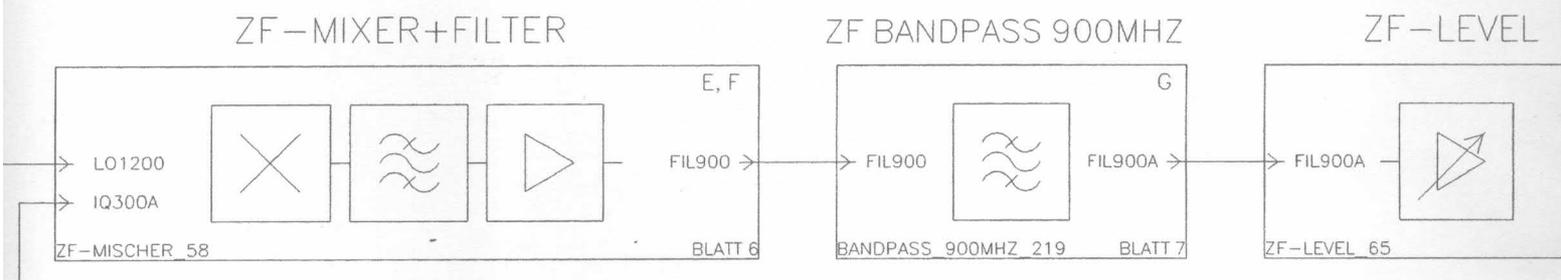
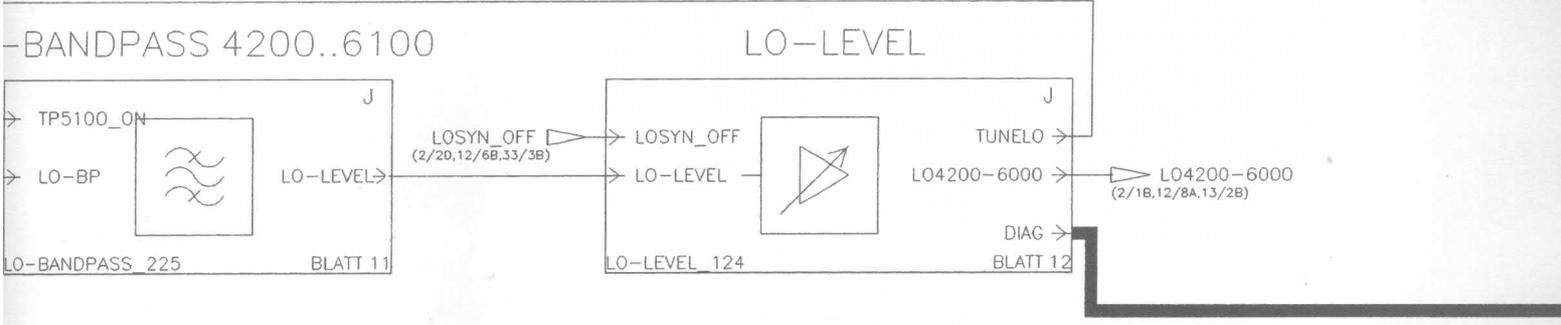


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Bindende Angaben ueber Varianten,
 Trimmwerte, Bauteile und
 nicht bestueckte Bauteile siehe SA.
 FOR BINDING INFORMATION ON MODELS,
 TRIMMING AND COMPONENTS VALUES AND
 NONFITTED COMPONENTS SEE PARTS LIST



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

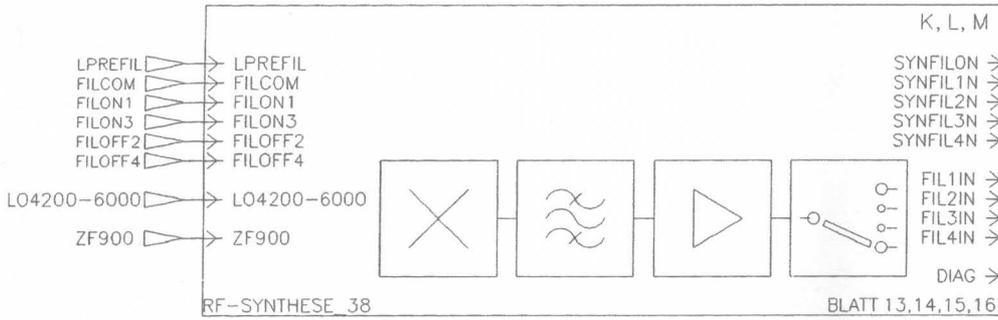


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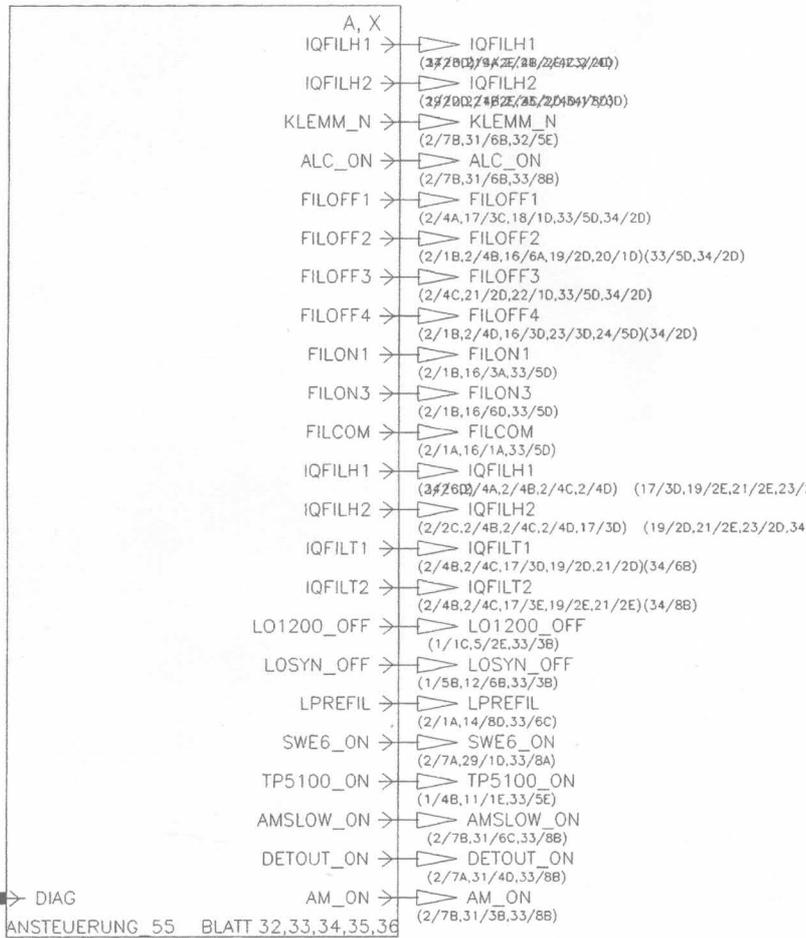

ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprock Zeichn 1
		Typ: Type: SMIQ	Datum: Date: 99-09-09	
1. Z.: used in: 1084.8004.01		TOP/TOP.1		

MIXER RF-SYNTHESIS



CONTROL

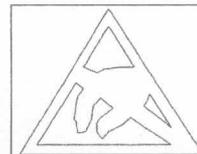


DIAG
(1/8E, 5/29/80/6C, 12/8E, 15/4A)
(26/8E, 29/4B, 30/8B, 31/8D)
(32/4D, 32/8B, 33/1D, 33/6C)

** = NOT FITTED

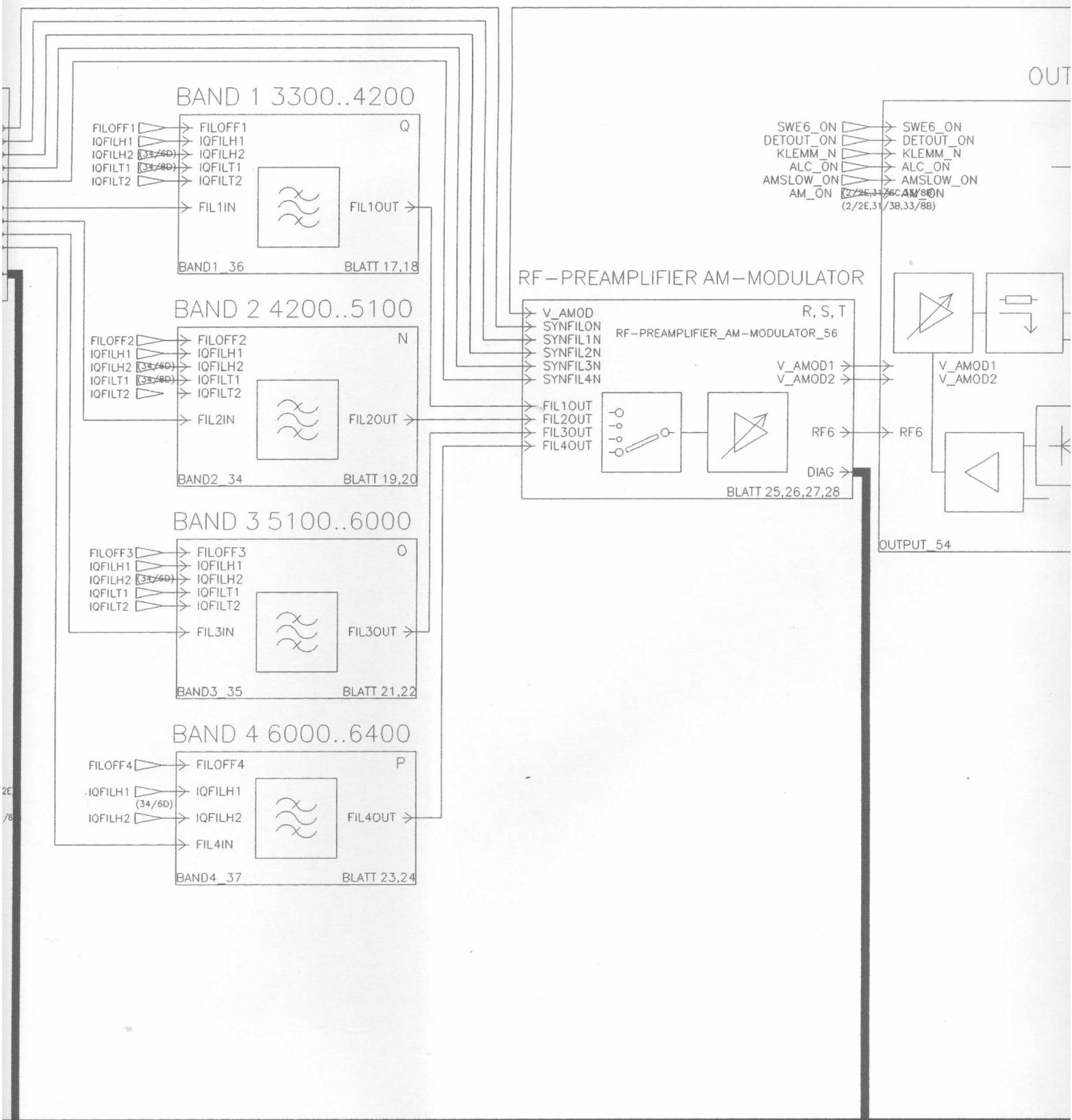
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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

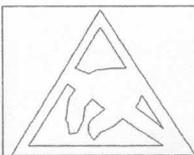


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDET
BAUELEMENTE ERFOEDERN EIN
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

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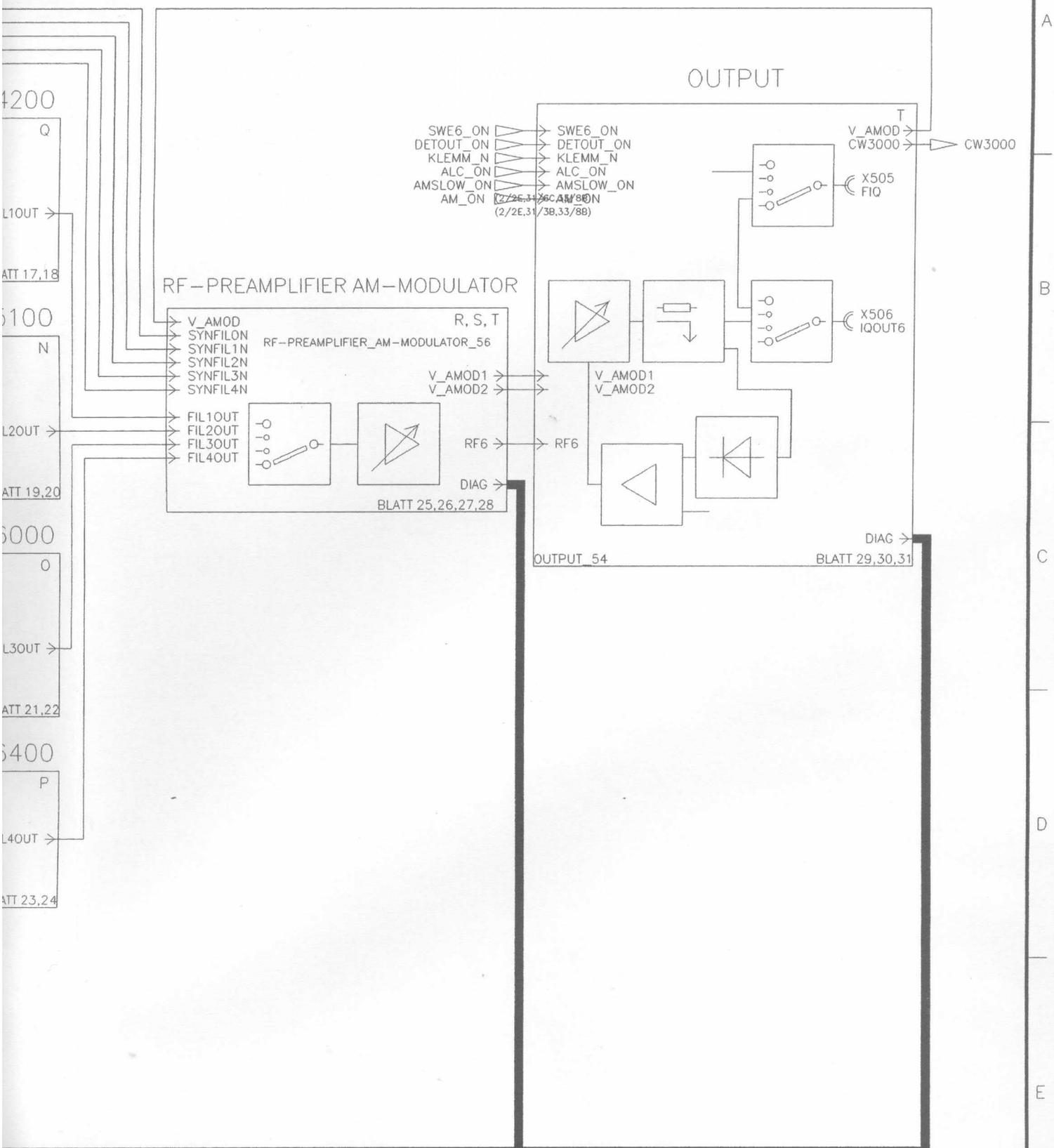
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ACHTUNG: EGB !
 ELEKTROSTATISCH GEFAEHRDETE
 BAUELEMENTE ERFORDERN EINE
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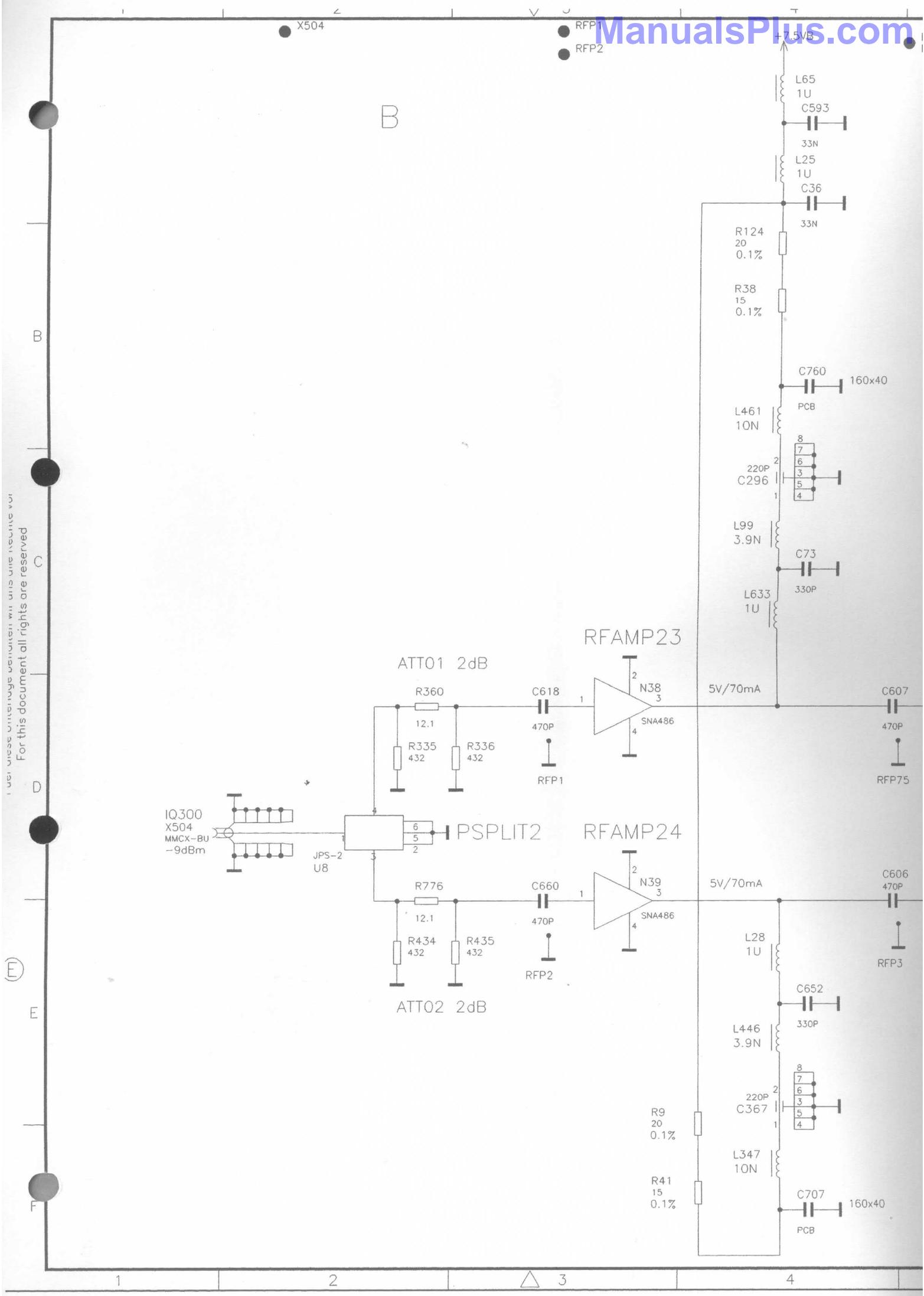
ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Norme: HOFBERG		
I. Z.: used in: 1084.8004.01					

S,
AND
LIST



ROHDE&SCHWARZ Typ: SMIQ I. Z.: used in: 1084.8004.01		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION Datum: 99-09-09 Date: 99-09-09		Abteilung: 1GPK Dpt: 1GPK Name: HOFBERGE Name: HOFBERGE		Sprache: / Lang.: DE Aei: / C.I.: 06.05 Blatt: / Sh.: 2+		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S TOP/TOP.2	
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X504

RFP1
RFP2

+1.5V_B

B

B

C

D

(E)

E

F

1

2

3

4

1Q300
X504
MMCX-BU
-9dBm

JPS-2
U8

ATT01 2dB

ATT02 2dB

RFAMP23

RFAMP24

5V/70mA

5V/70mA

160x40

C607
470P

C606
470P

RFP3

160x40

L65
1U
C593

33N
L25
1U
C36

L461
10N
C296
220P

L99
3.9N
C73
330P

L633
1U

R360
12.1

R335
432

R336
432

R776
12.1

R434
432

R435
432

R9
20
0.1%

R41
15
0.1%

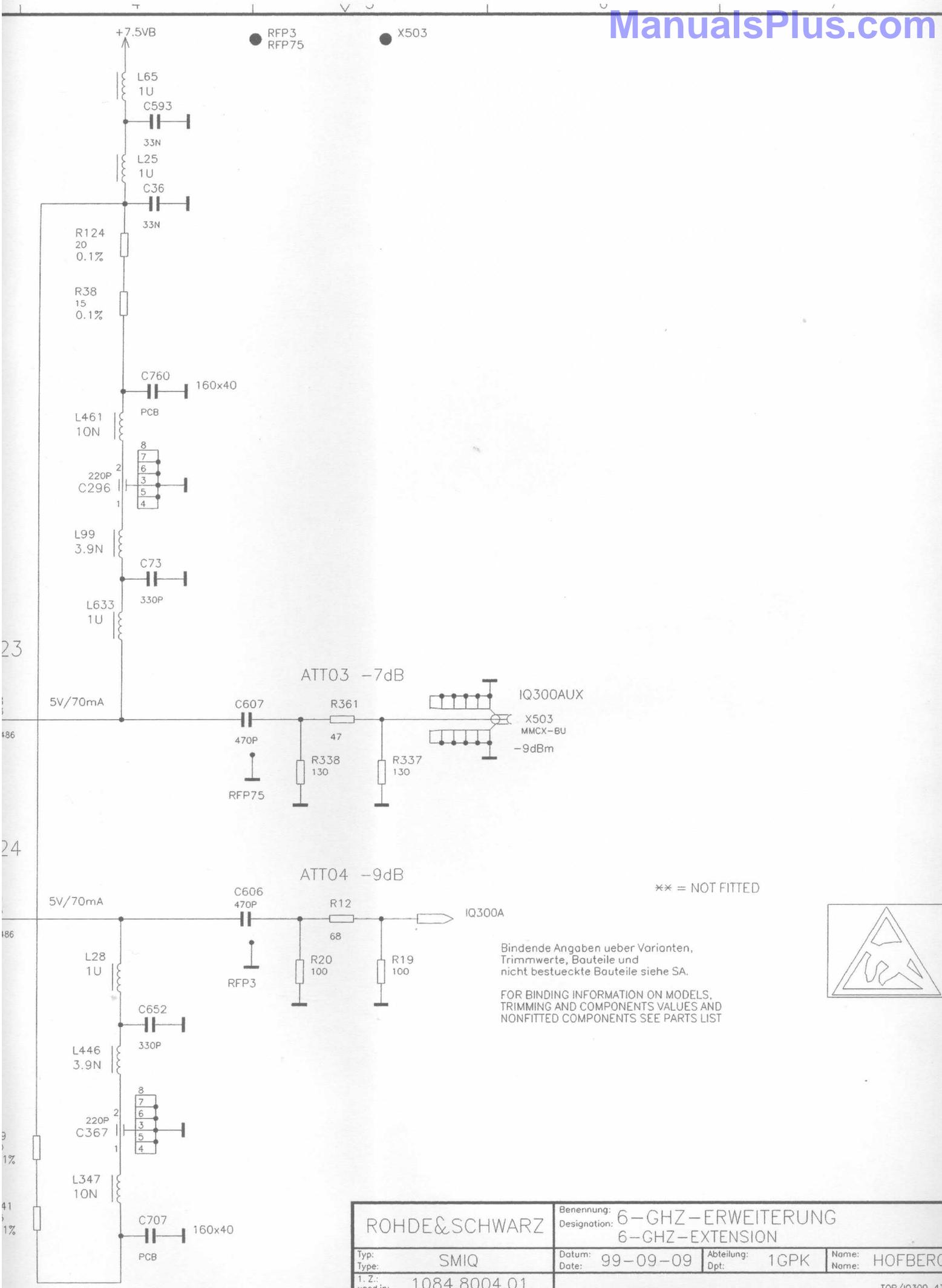
L28
1U
C652
330P

L446
3.9N
C367
220P

L347
10N

C707
160x40
PCB

C760
160x40
PCB



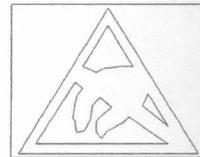
ATT03 -7dB

ATT04 -9dB

** = NOT FITTED

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ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Name: HOFBERG	
		Designation: 6-GHZ-EXTENSION		Date: 99-09-09	
Typ: SMIQ		Abteilung: 1GPK		Dpt: HOFBERG	
I. Z.: 1084.8004.01					
used in:					

23
186
24
186
41
1%

X503

A

B

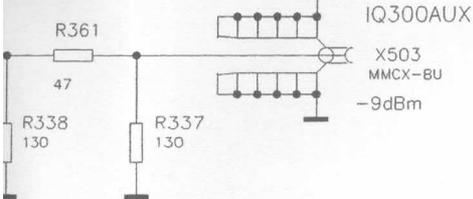
C

D

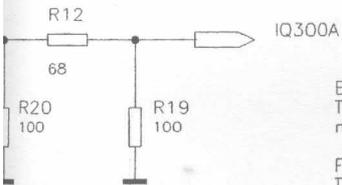
E

F

ATT03 -7dB



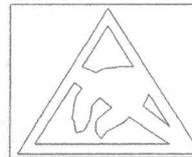
ATT04 -9dB



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ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

IQ300

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Lang.: DE	Aei: / C.I.: 06.05	Blatt: / Sh.: 3+
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
1. Z.: used in: 1084.8004.01	TOP/IQ300_43/IQ300.1						

X502

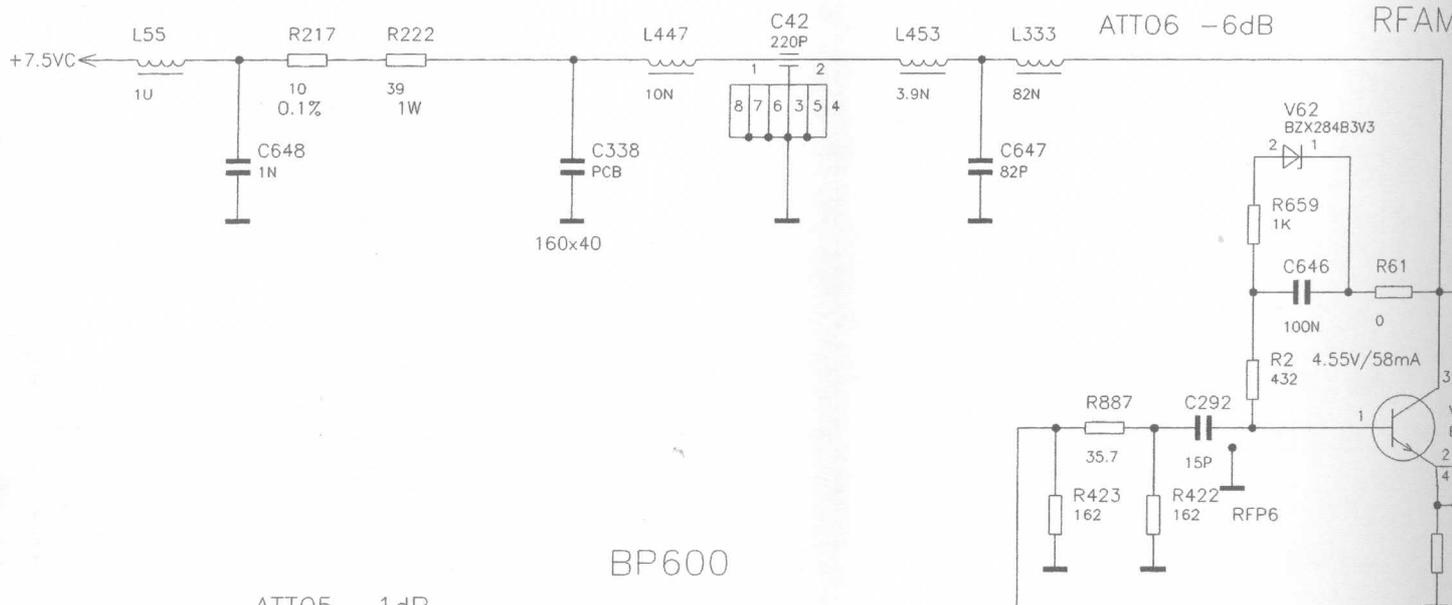
RFP4

RFP5

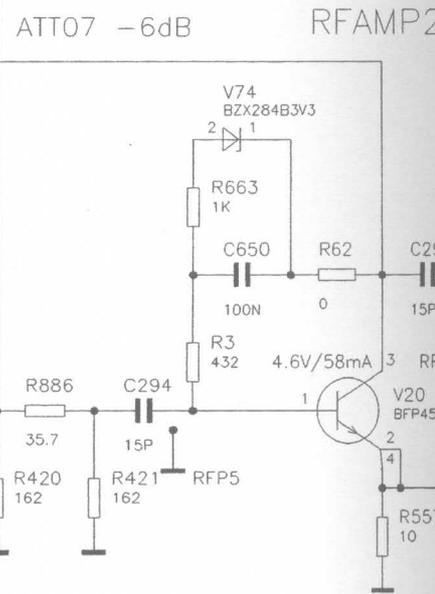
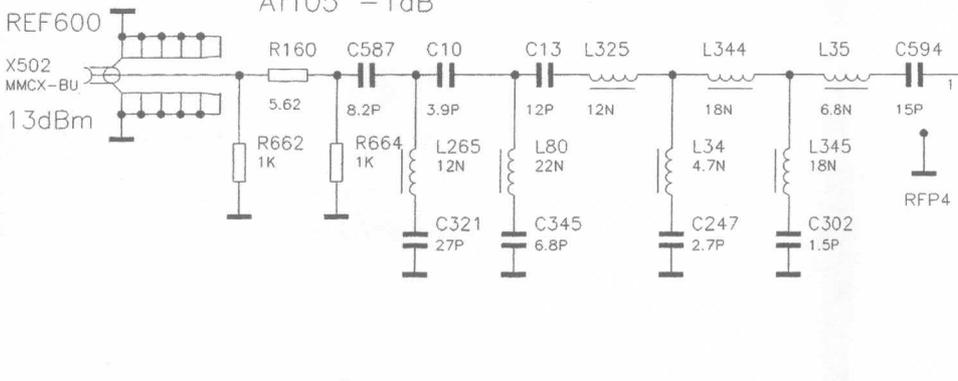
RFP6

RFP7

C



BP600

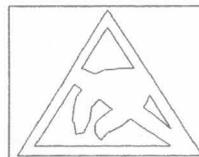


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BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG

ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

RFP4

RFP5

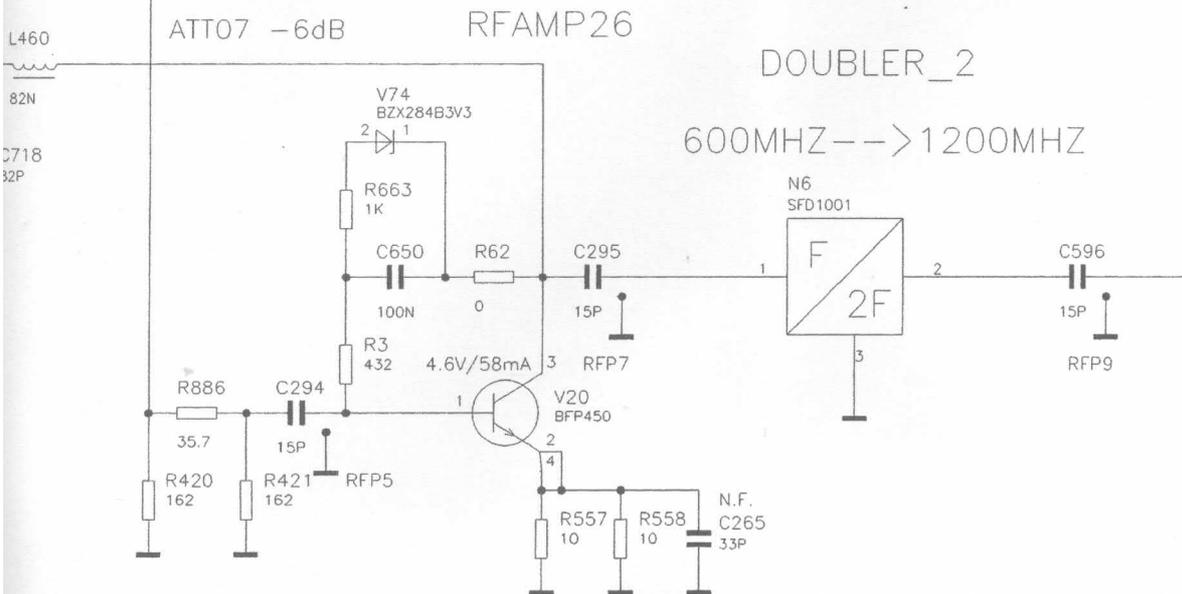
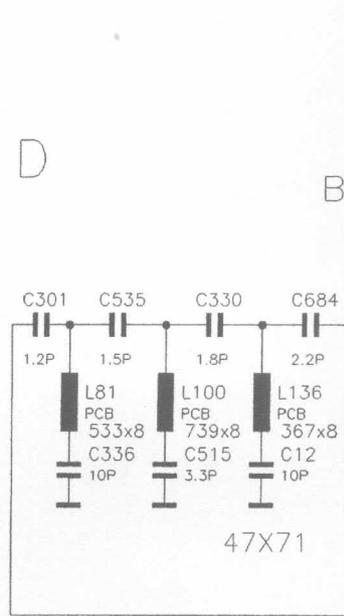
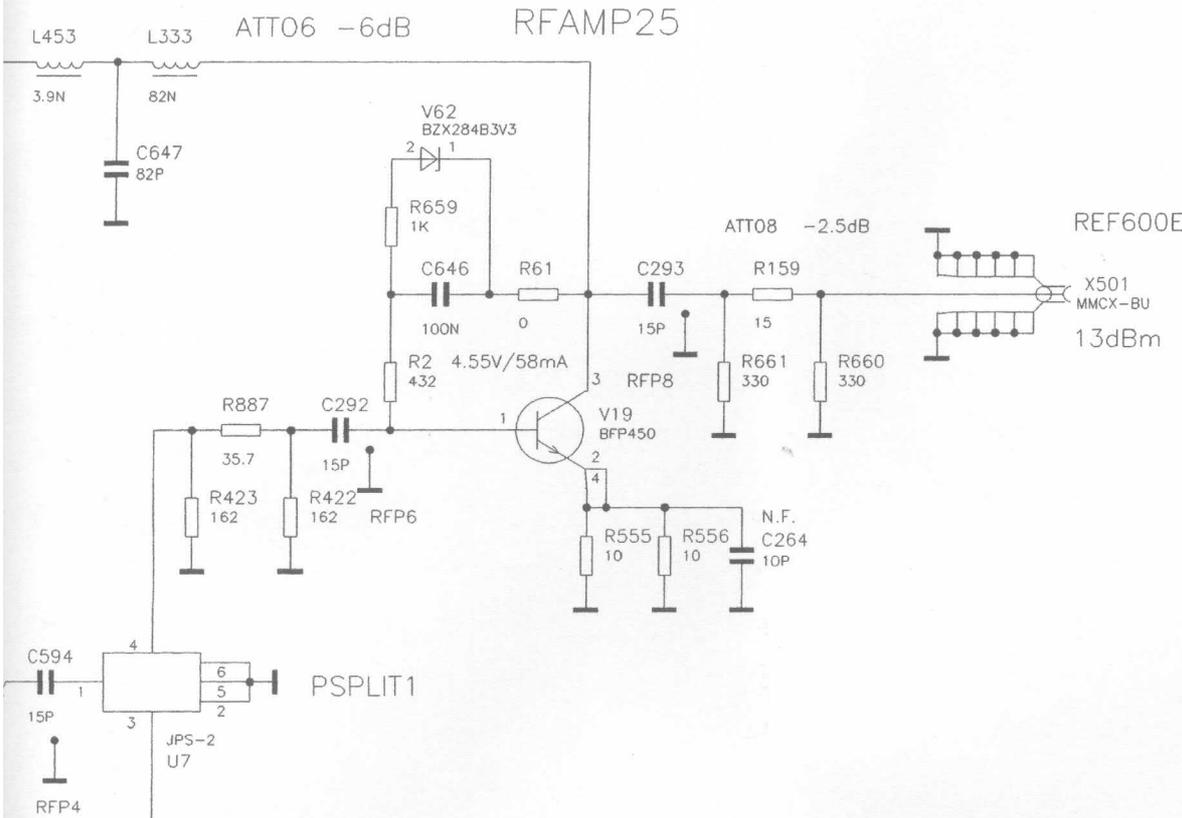
RFP6

RFP7

RFP8

X501

RFP9



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

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG					
		Designation: 6-GHZ-EXTENSION					
Typ:	SMIQ	Datum:	99-09-09	Abteilung:	1GPK	Name:	
1. Z. used in:	1084.8004.01	Date:		Dpt:		Name:	

er Varianten,
und
siehe SA.

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MENTS VALUES AND
ITS SEE PARTS LIST

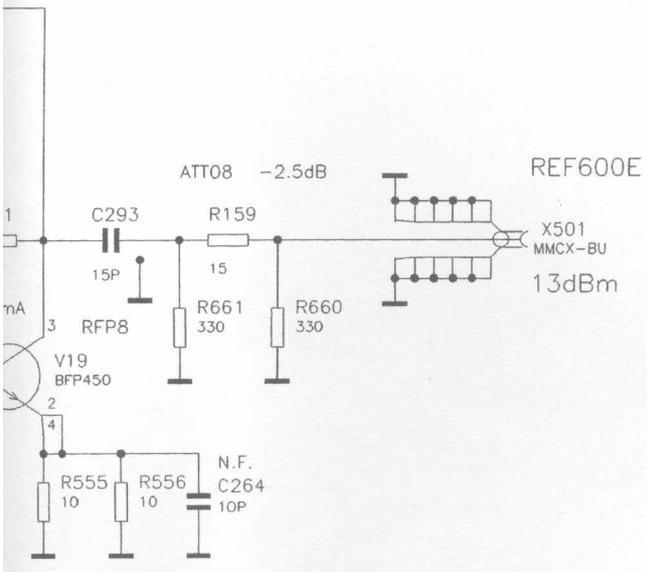
RFP8

X501

RFP9

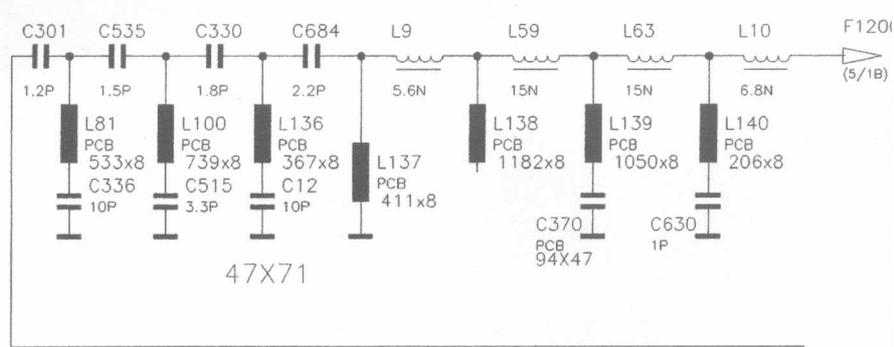
RFP75

FAMP25



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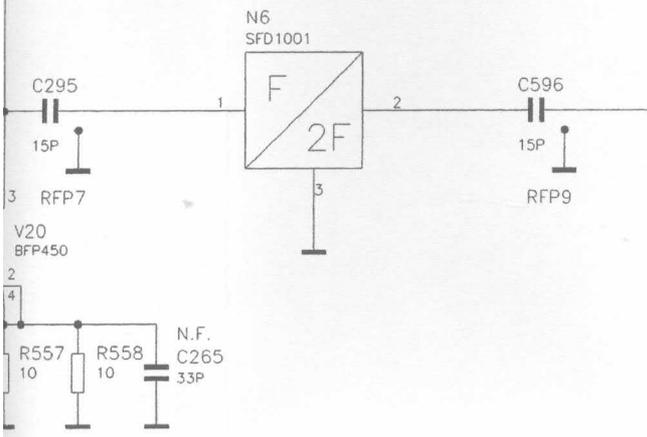
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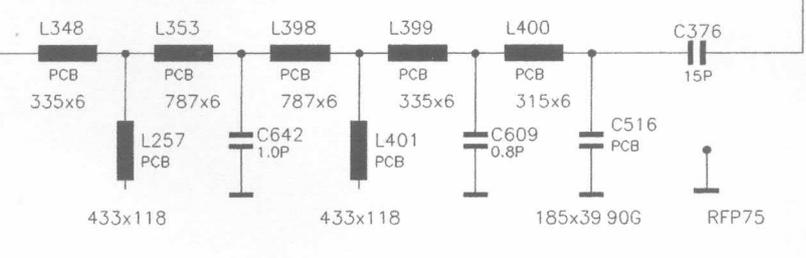
MP26

DOUBLER_2

600MHZ --> 1200MHZ



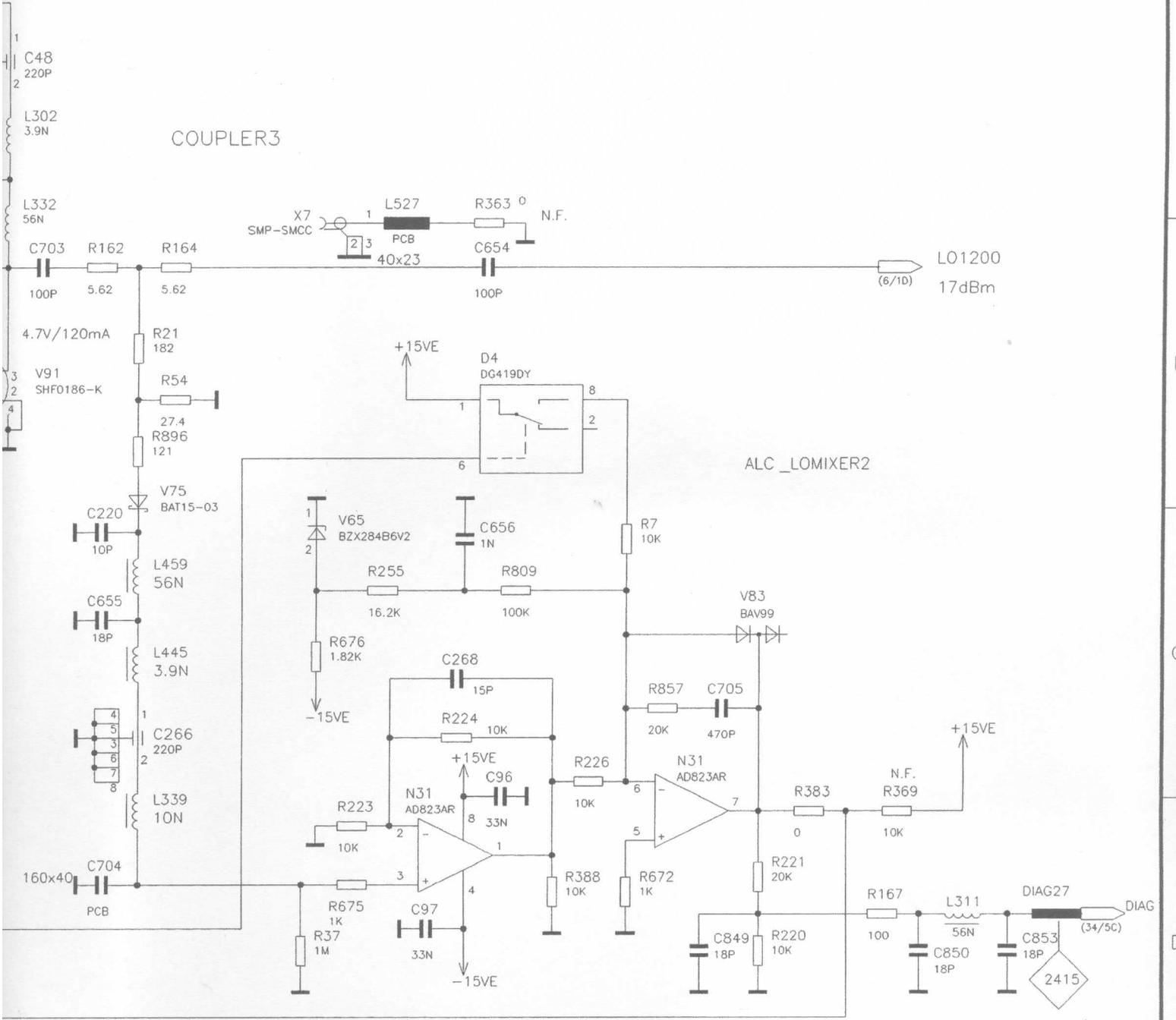
TP1300



REF600

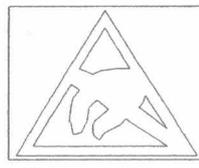
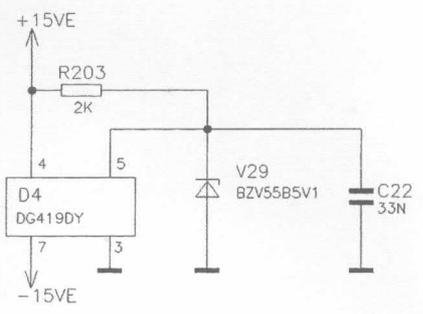
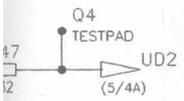
! B !
KEHRDETE
DERN EINE
DHABUNG.
D !
E DEVICES
NDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh: 4+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01								TOP/L0-ZF_32/L0-ZF.1	



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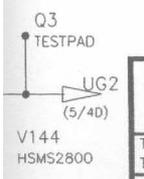
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST



ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
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LO1200



ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 5+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01								TOP/LO-ZF_32/LO-ZF.2	

RFP68

RFP69

F1

E

B

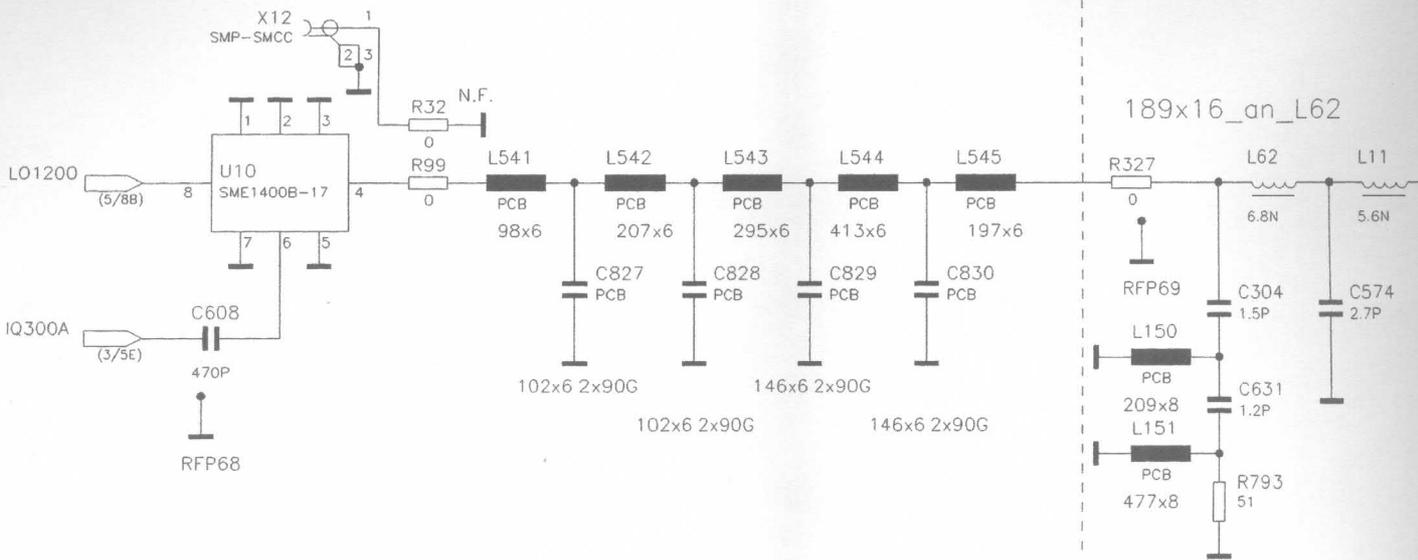
C

D

E

MIXER_2

TP900_1



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ELEKTROSTATISCH GEFAEHRDET
BAUELEMENTE ERFORDERN EIN
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICE
REQUIRE A SPECIAL HANDLING

1

2

3

4

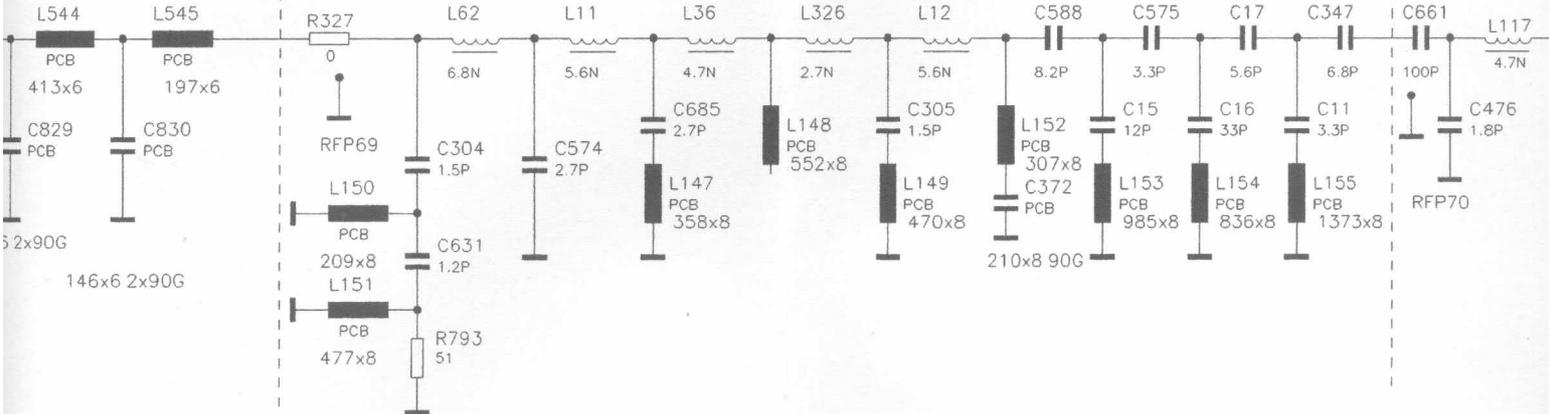
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RFP70

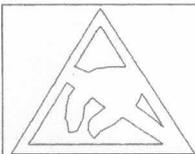
F1

BP900_1

189x16_an_L62



** = NOT FITTED



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 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
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ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: Type:	SMIQ	Datum: Date:	99-09-09
1. Z. used in:	1084.8004.01	Abteilung: Dpt:	1GPK

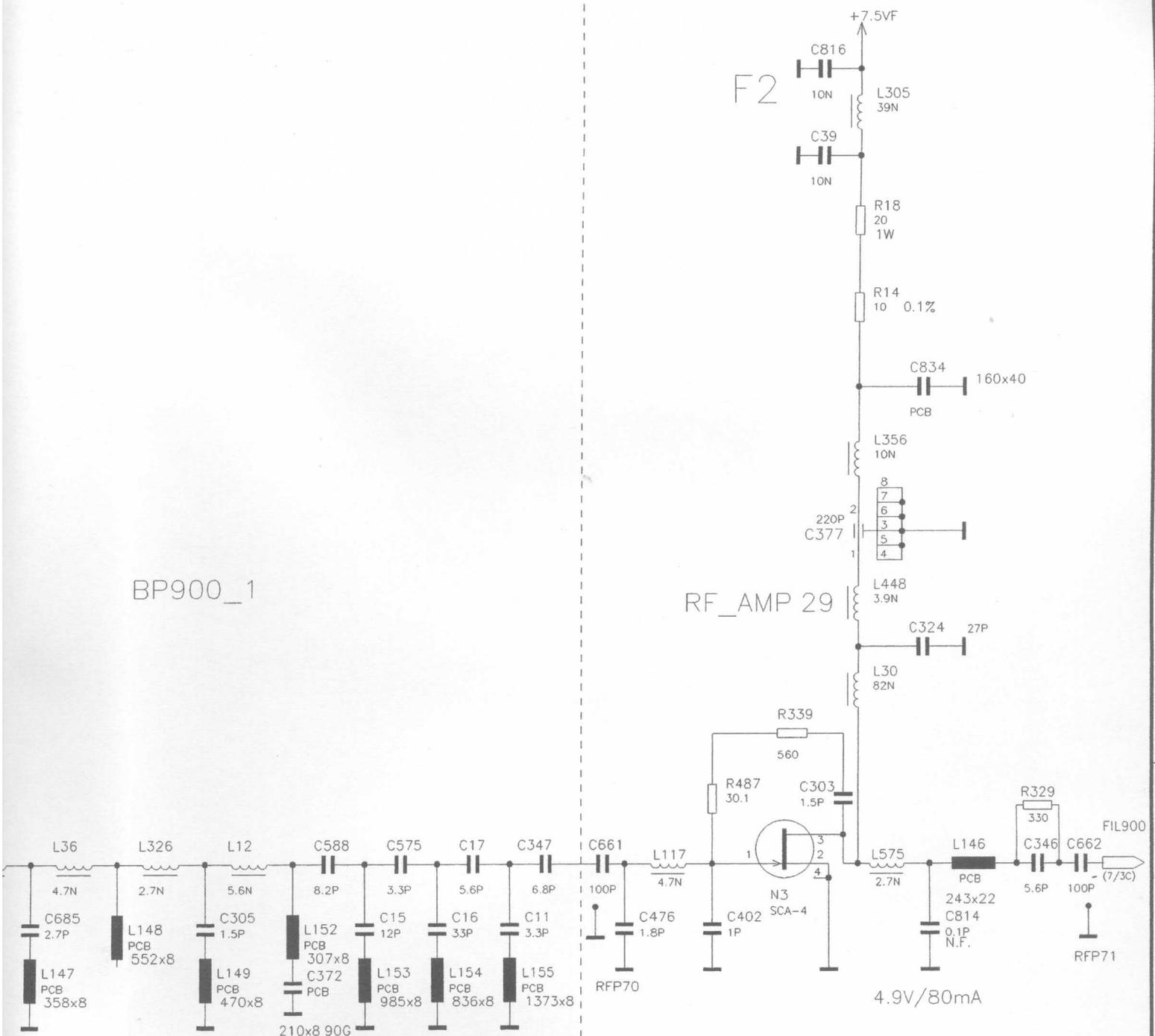
über Varianten,
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 INFORMATION ON MODELS,
 COMPONENTS VALUES AND
 PARTS LIST SEE PARTS LIST

RFP70

RFP71

BP900_1

RF_AMP 29



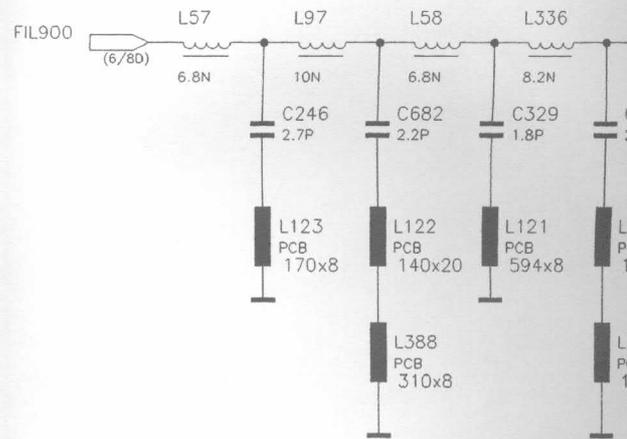
ZF900

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PETE
EINE
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CES
IG

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Long.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 6+	
Typ: SMIQ Type: SMIQ		Datum: 99-09-09 Date: 99-09-09		Abteilung: 1GPK Dpt: 1GPK		Name: HOFBERGE Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
I. Z.: used in: 1084.8004.01		TOP/ZF-MISCHER_58/ZF-MISCHER.1								

G

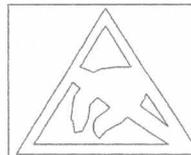
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ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.

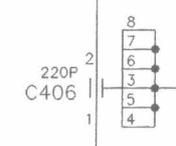
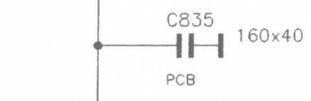
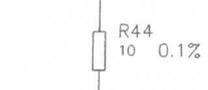
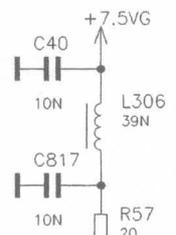
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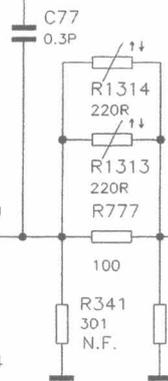
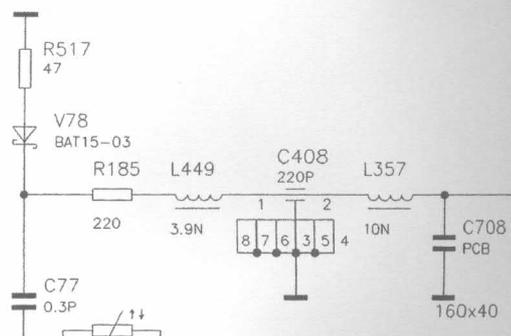
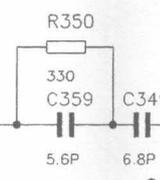
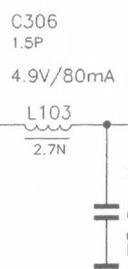
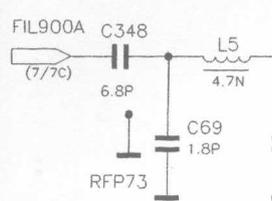
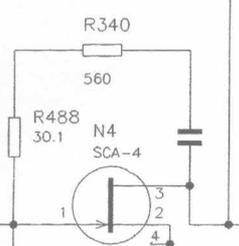
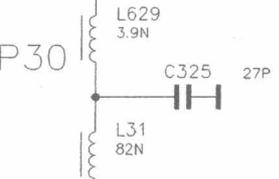
RFP73
G

RFP74

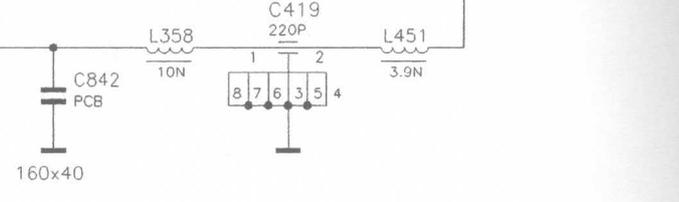
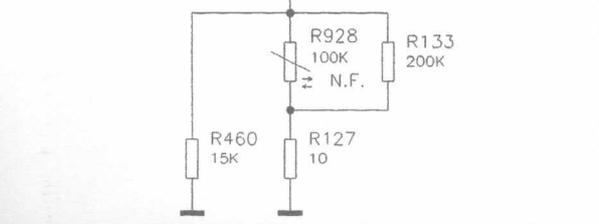
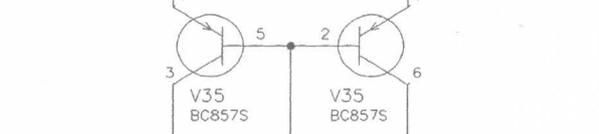
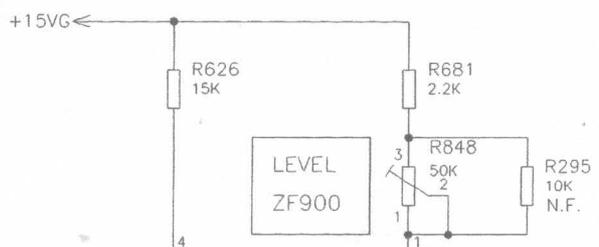
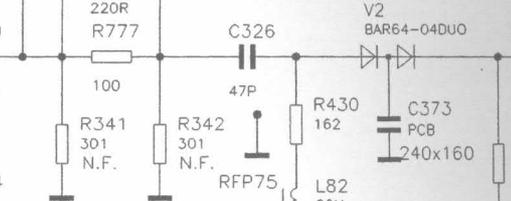
RFP75



RFAMP30



ATT10 -3dB LEVEL_900



1

2

3

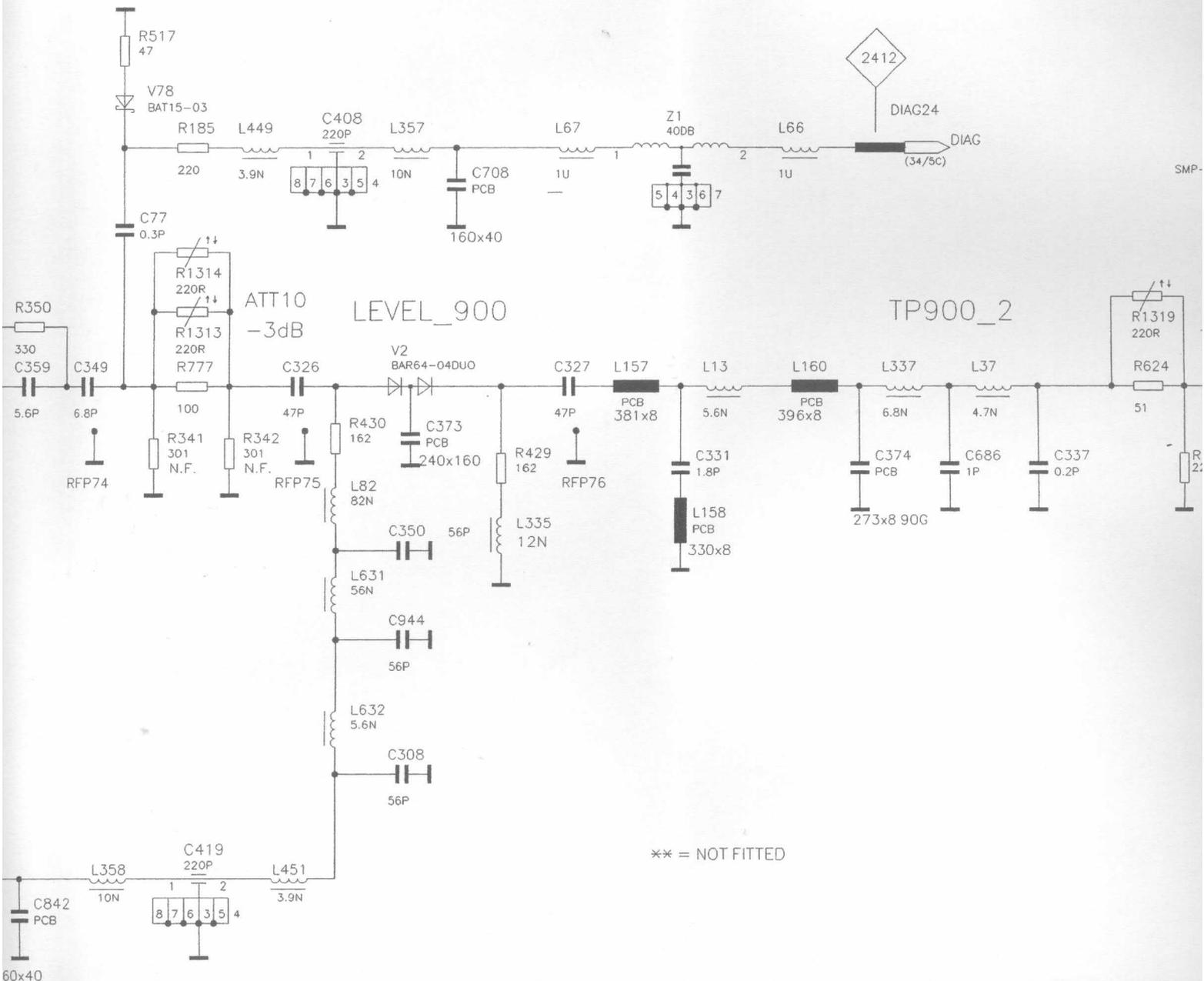
4

RFP74

R848

RFP75

RFP76



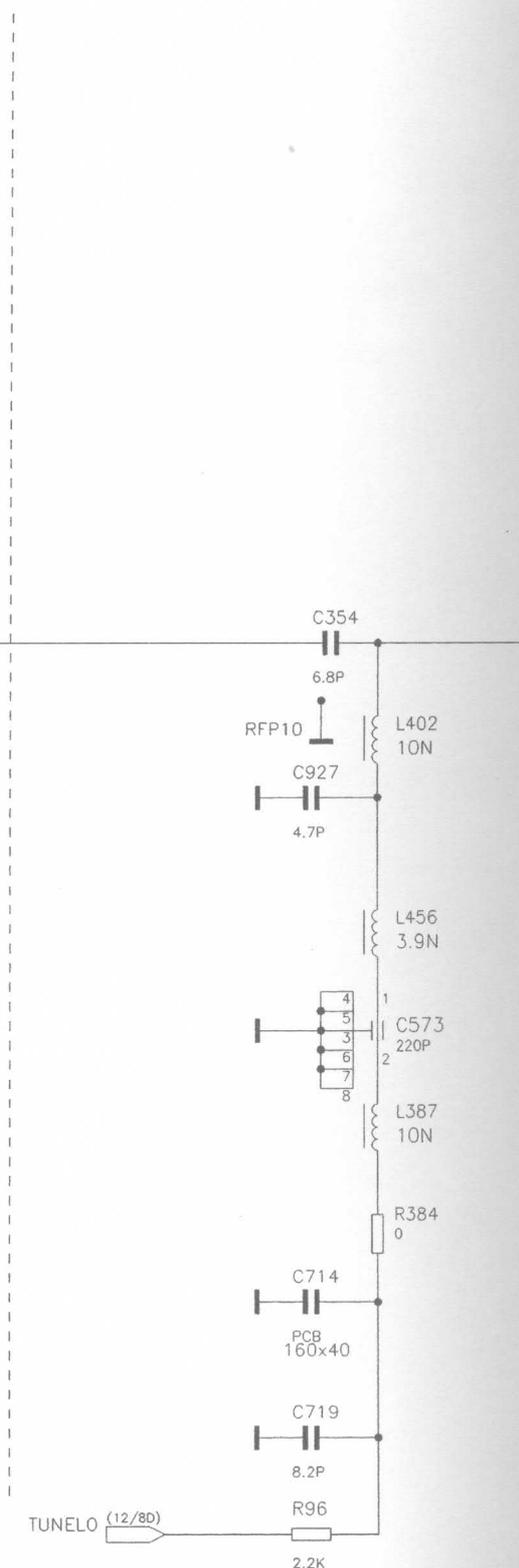
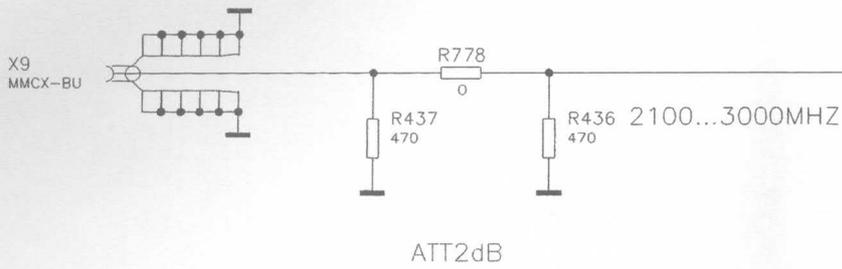
** = NOT FITTED

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITER	
		Designation: 6-GHZ-EXTENSION	
Typ:	SMIQ	Datum:	99-09-09
Type:		Date:	
1. Z.:	1084.8004.01	Abteilung:	1GF
used in:		Dpt:	

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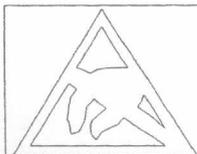
ATT12



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

** = NOT FITTED

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



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

RFP10

RFP11

+7.5V1

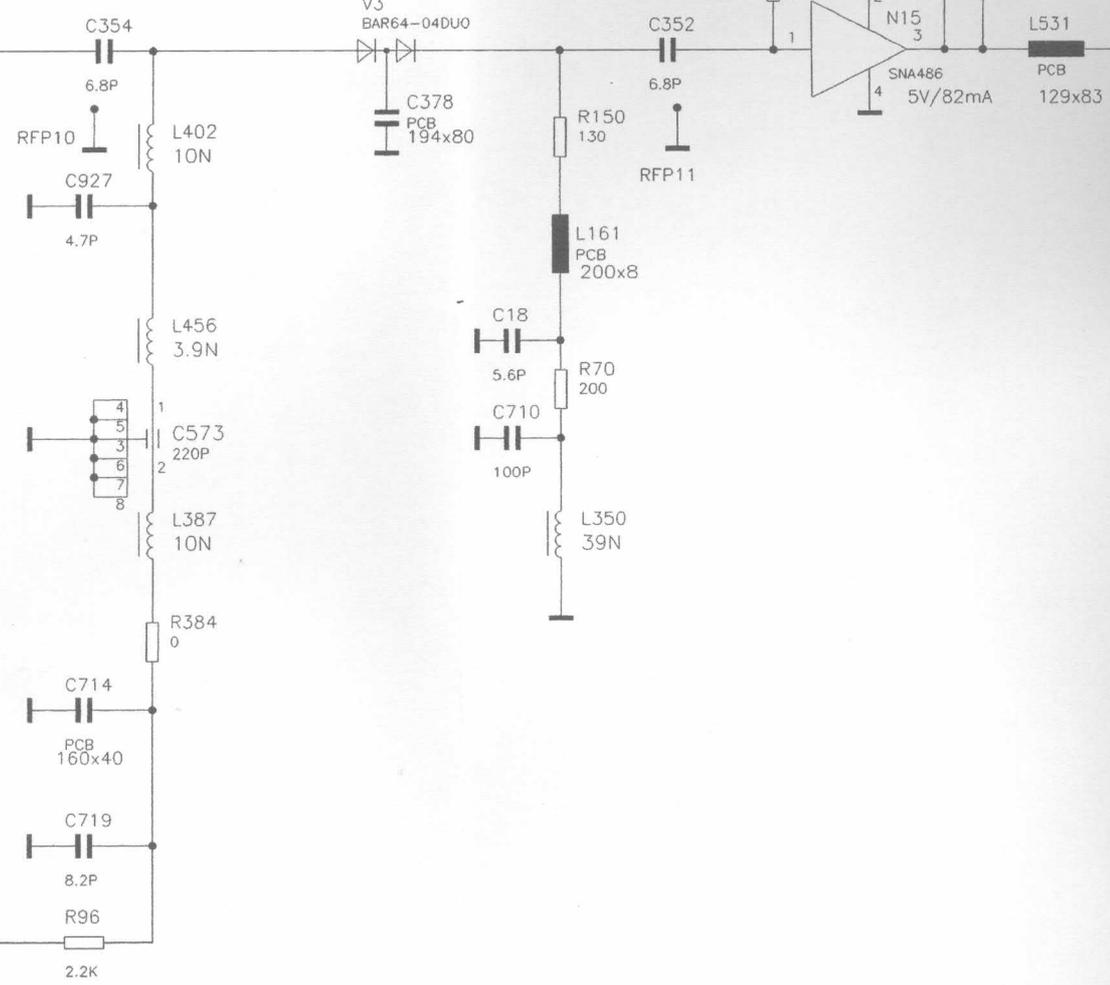
100...3000MHZ

NOT FITTED

TUNELO (12/8D)

ATTLOS

RFAMP2



ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEIT	
		Designation: 6-GHZ-EXTENSIO	
Typ:	SMIQ	Datum:	99-09-09
1. Z.:	used in: 1084.8004.01	Date:	
		Abteilung:	Dpt:

RFP11

RFP12

+7.5VI

ATTLOS

RFAMP2

DOUBLER1

V3
BAR64-04DUO

RFP11

RFP12

DOUBLER1OUT

(10/10)

C378
PCB
194x80

R150
1.30

RFP11

C18
5.6P

C710
100P

L350
39N

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 9+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
I. Z.: used in: 1084.8004.01									

△ 5

6

7

8

TOP/LO-SYNTHESSE_74/LO-SYNTHESSE.1

RFP71

B

C

D

E

F

TP10000

TP6300

DOUBLER1OUT
(9/8C)

L565
PCB
45x6

C924
PCB
63xm
2x90G

L566
PCB
83x6

C925
PCB
74x6
90G

L567
PCB
74x6

C928
PCB
67.5x6
90G

L569
PCB
30x6

L568
PCB
12x6

L570
PCB
3x6

C932
3.3P

RFP71

L571
PCB
73.5x8

C734
0.2P
N.F.

C558
0.1P

C795
0.3P

C935
0.4P

C936
0.4P

C232
0.2P

L573
PCB
28x8

L556
PCB
14x8

L14
PCB
8x8

L559
PCB
45x8

L572
PCB
130x8

L555
PCB
98x8

L557
PCB
94x8

L558
PCB
110x8

L560
PCB
49x8



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

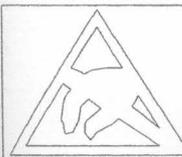
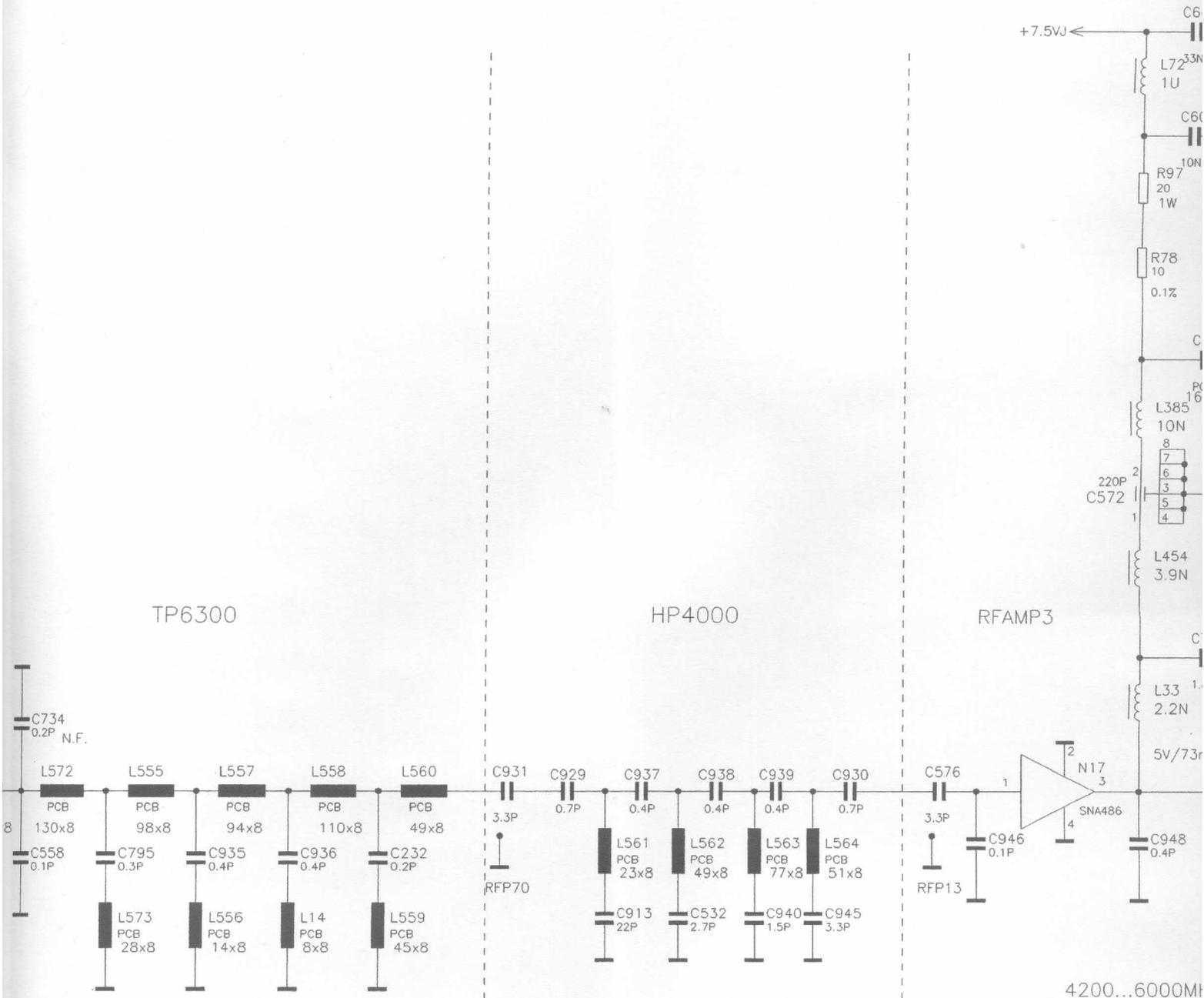
RFP70

RFP13

TP6300

HP4000

RFAMP3



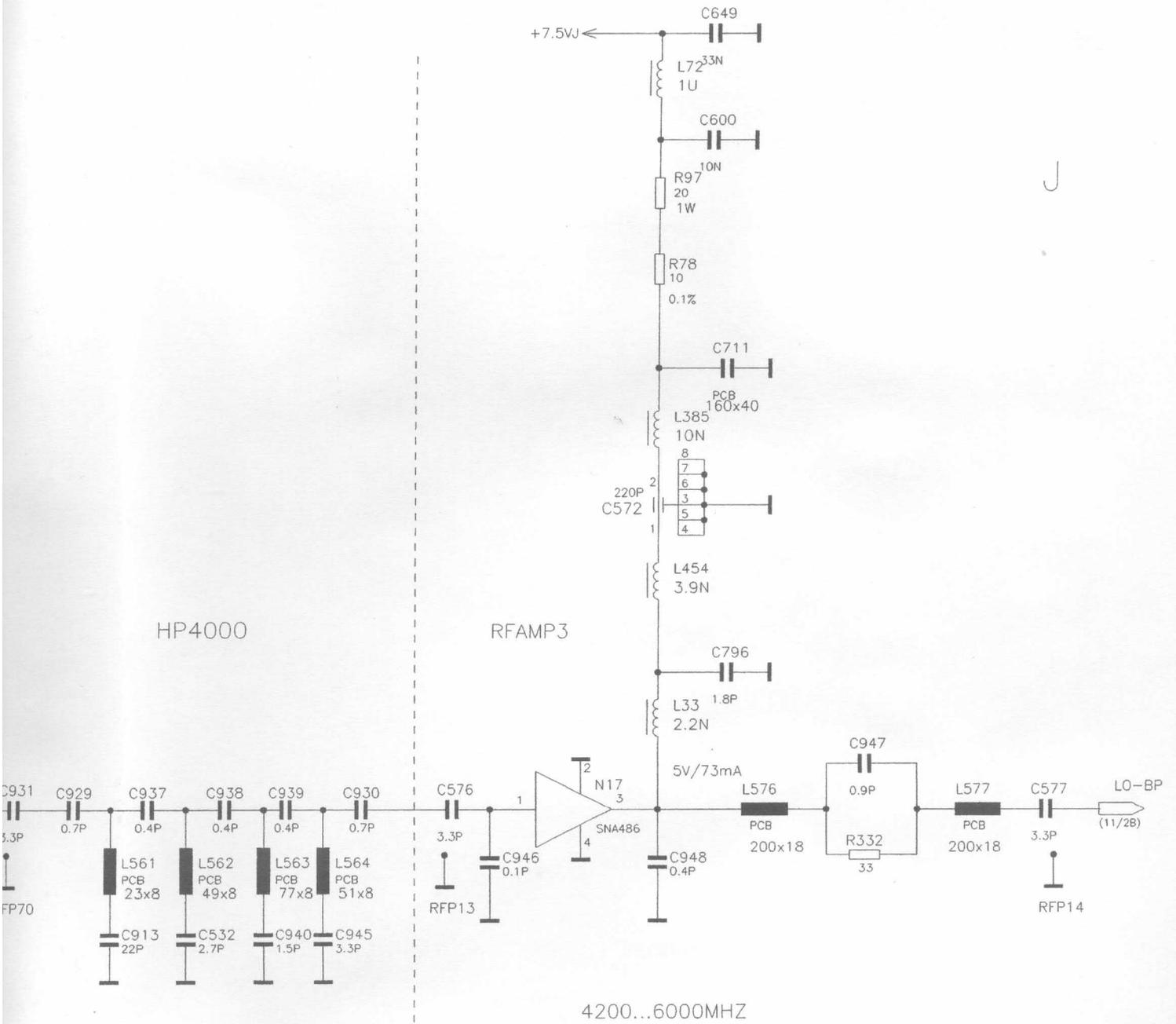
ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
 ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG	Designation: 6-GHZ-EXTENSION
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Nar
1. Z.: used in: 1084.8004.01	Date:	Dpt:	Nar

FP70

RFP13

RFP14



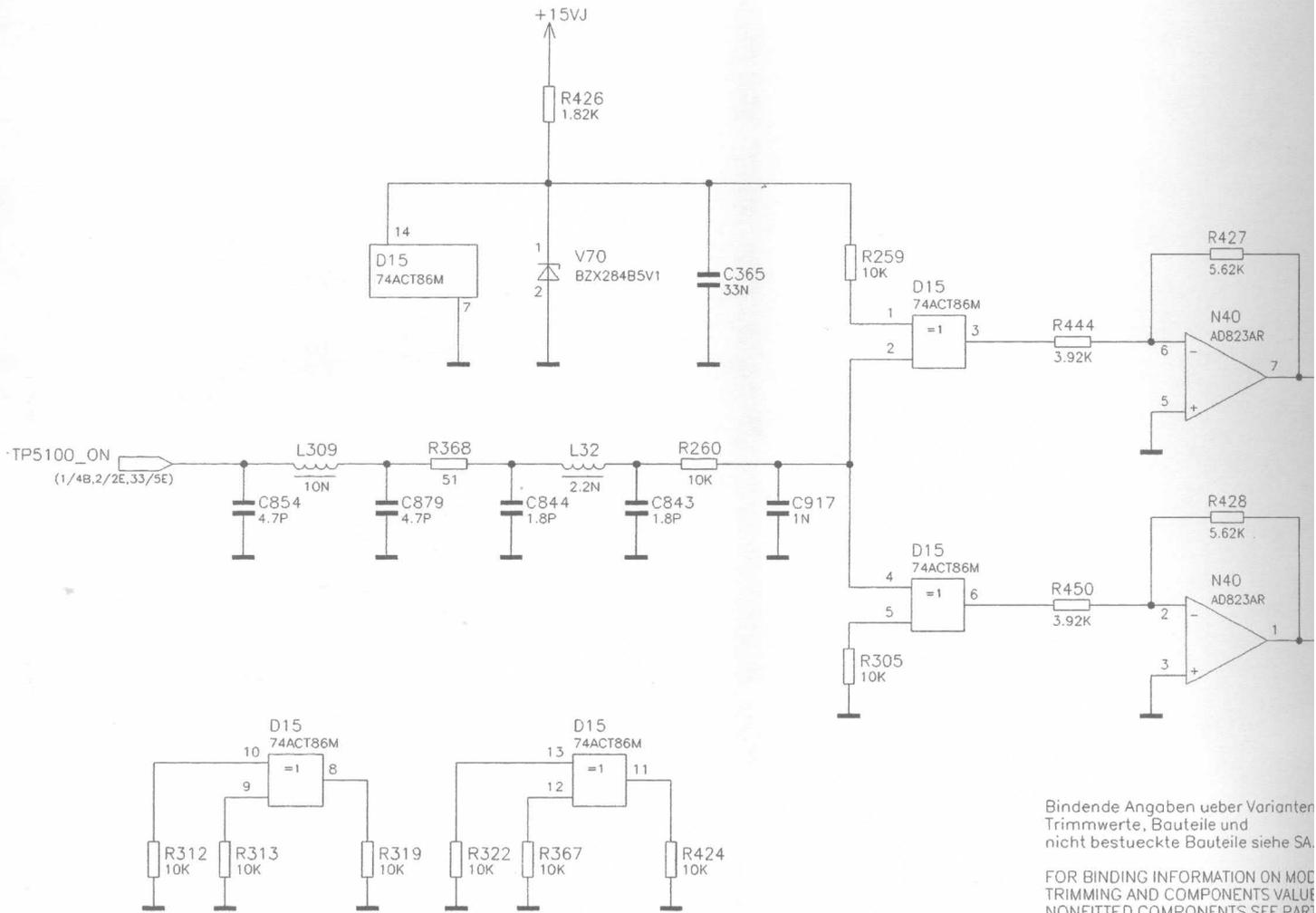
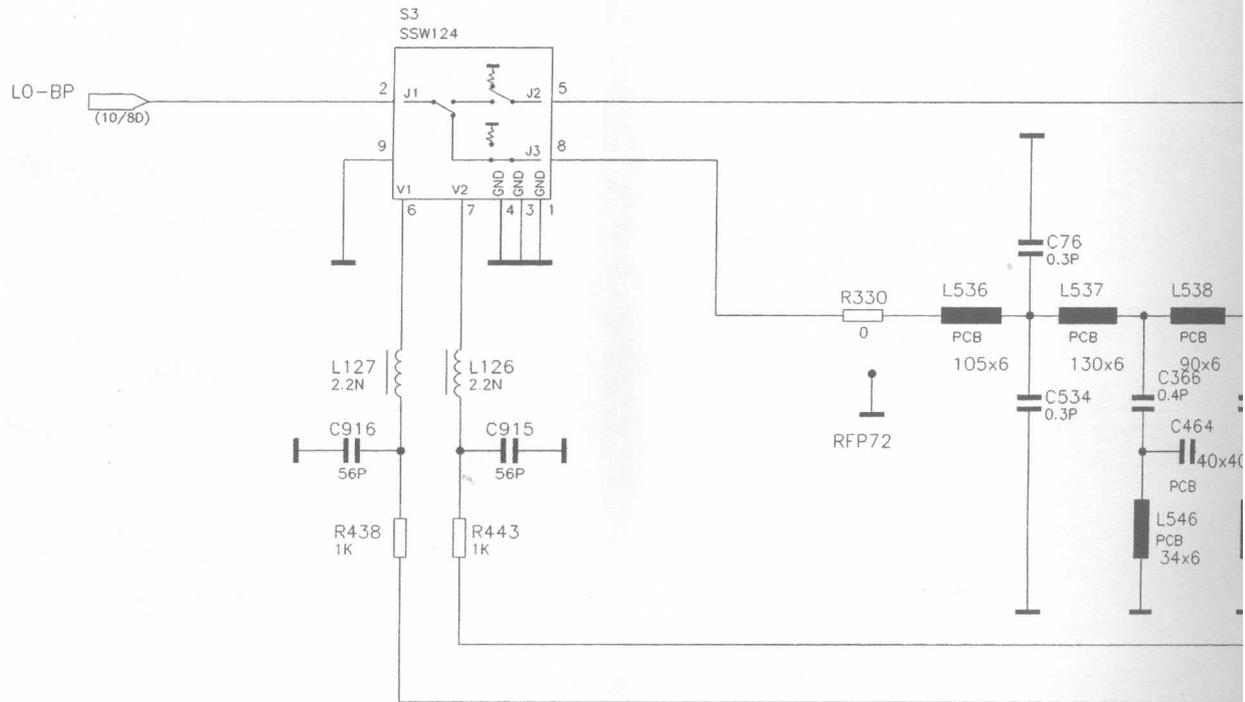
HP4000

RFAMP3

4200...6000MHZ

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Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01		TOP/LO-SYNTHESE_74/LO-SYNTHESE.2							

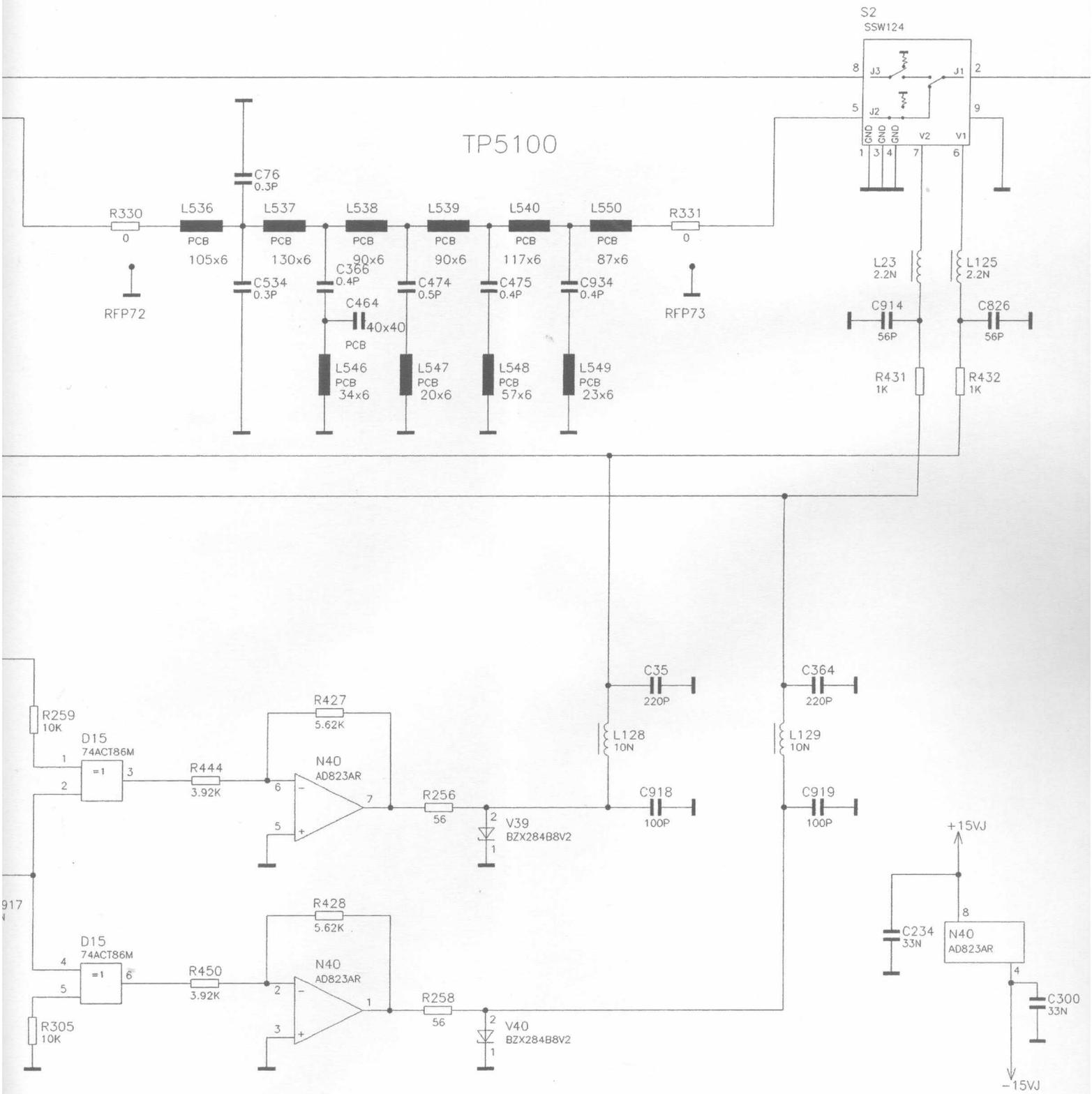
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Trimmwerte, Bauteile und
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FOR BINDING INFORMATION ON MOD
TRIMMING AND COMPONENTS VALUE
NONFITTED COMPONENTS SEE PART

** = NOT FITTED

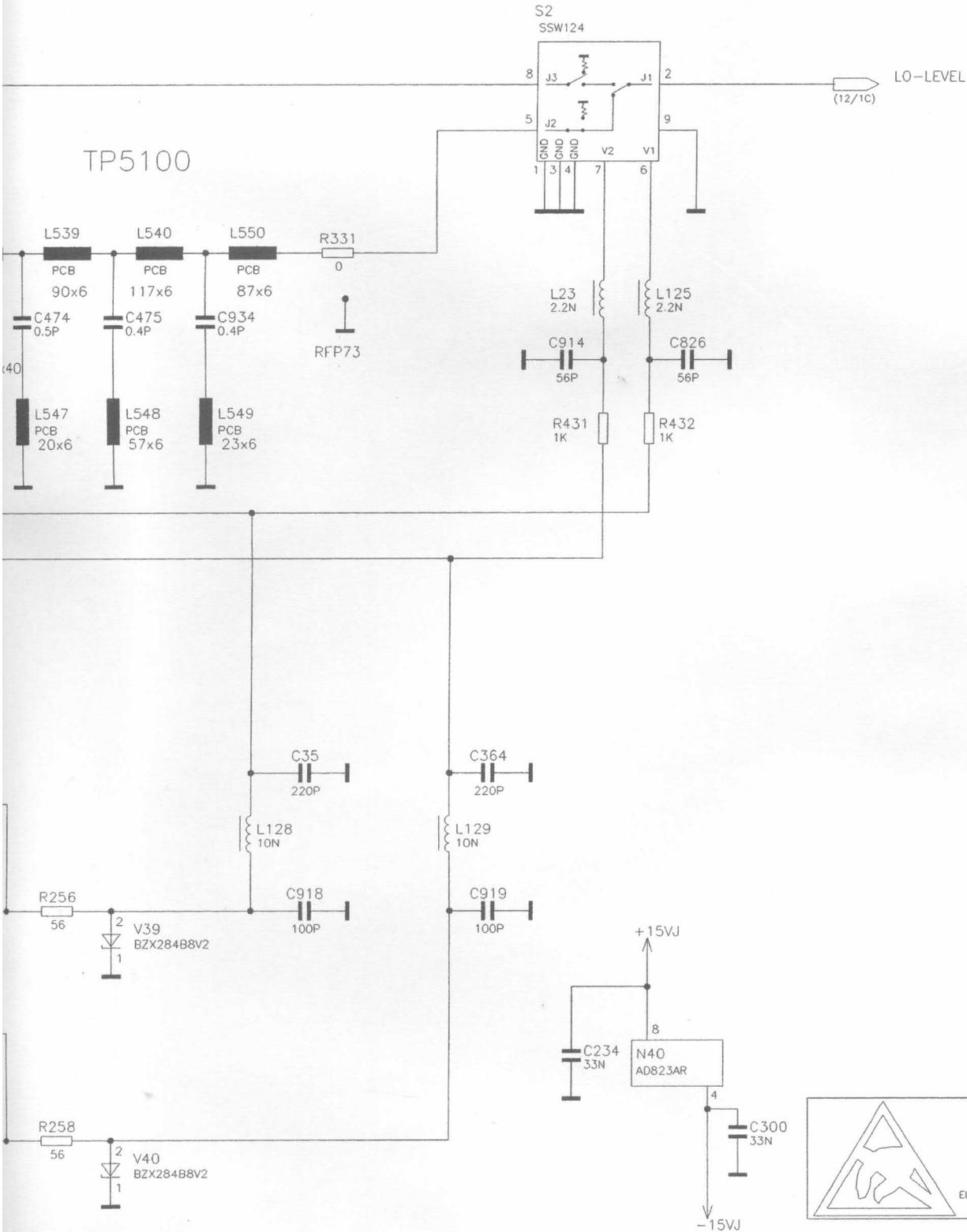


Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
 FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

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Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name:	
1. Z.: used in: 1084.8004.01	Date:	Dpt:	Name:	

RFP73




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

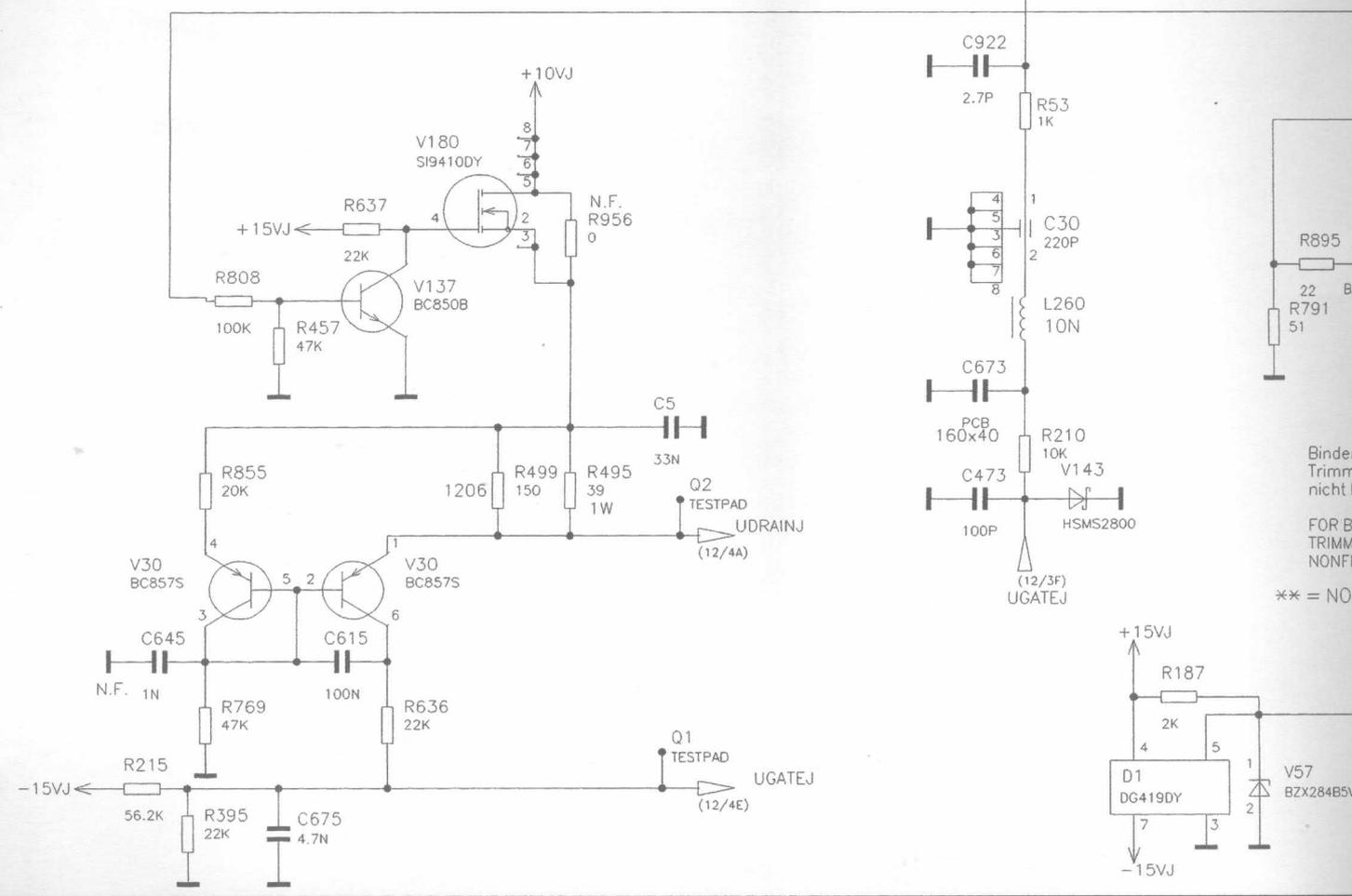
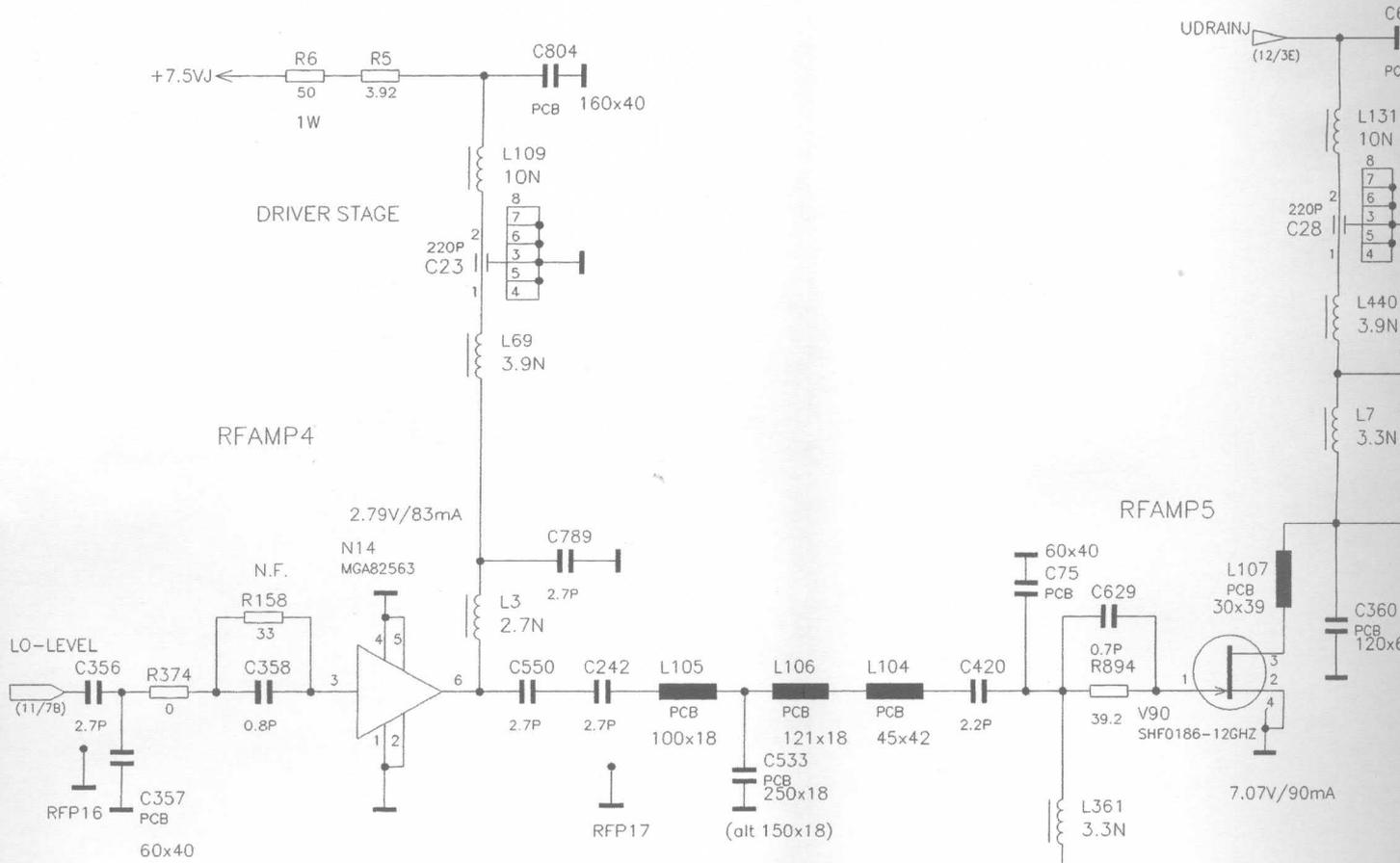
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SA.
ODELS,
UES AND
ARTS LIST

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Lang.: DE	Aei: / C.I.: 06.05	Blatt: / Sh.: 11+
Typ: Type: SMIQ	Datum: Date: 99-09-09	Abteilung: Dpt: 1GPK	Name: Name: HOFBERGE	Zeichn. Nr.: / Drawing No.: 1084.9600.01 S			
1. Z.: used in: 1084.8004.01				TOP/LO-BANDPASS_225/LO-BANDPASS.1			

RFP16

RFP17

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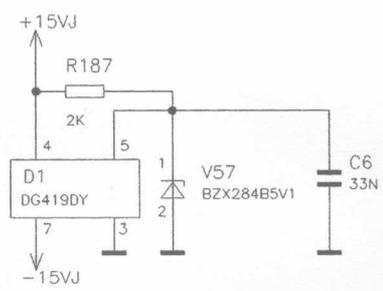
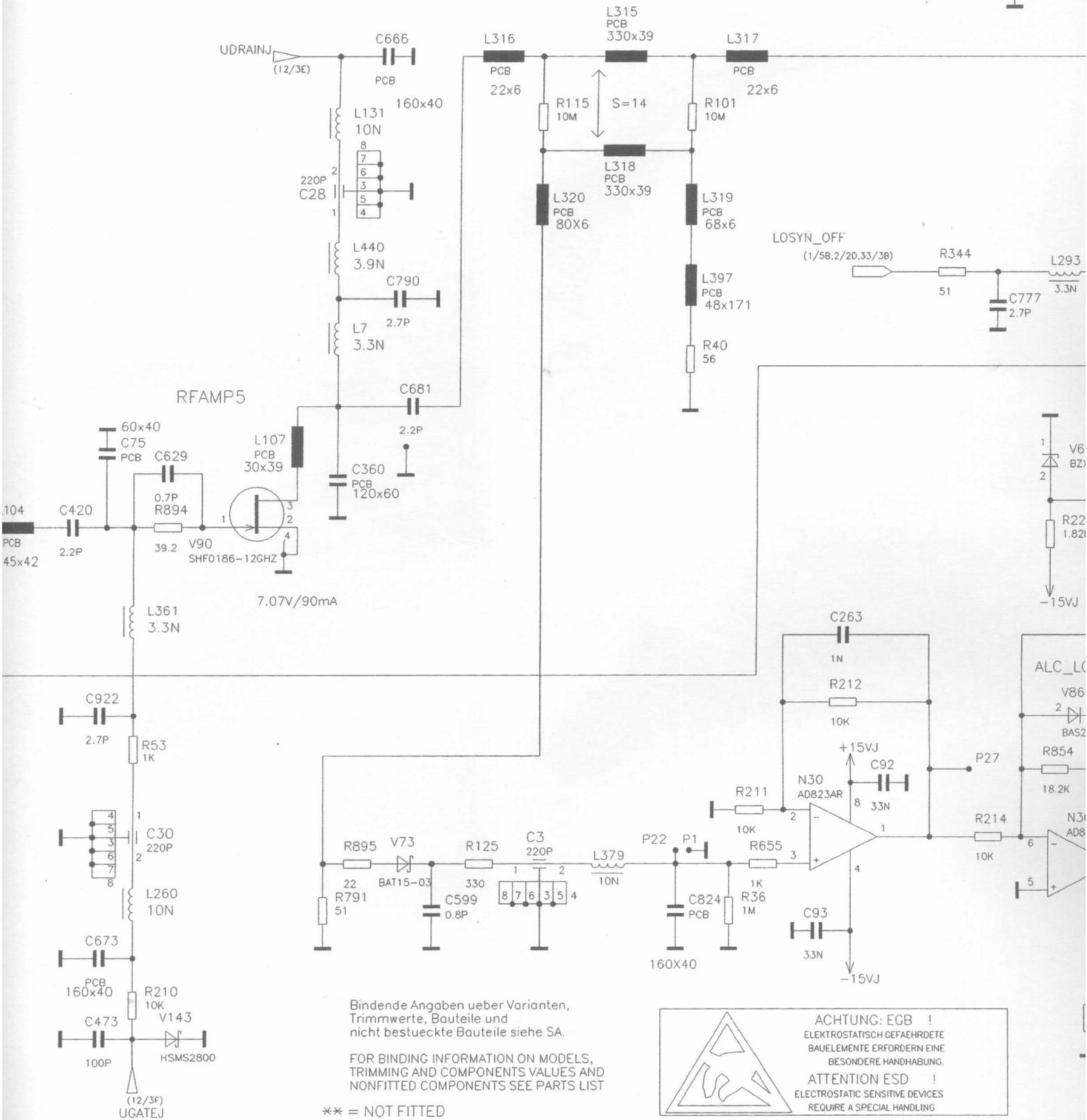
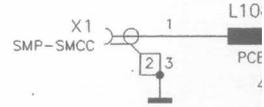
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2

3

4

COUPLER1
-16dB

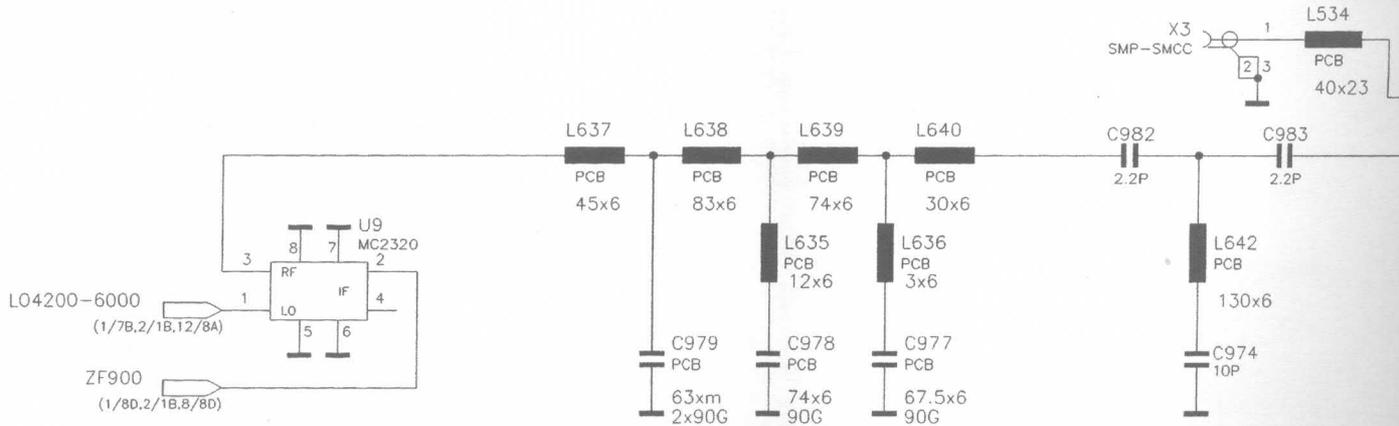


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1. Z.: used in: 1084.8004.01	Date:	Dpt:	Name: H		

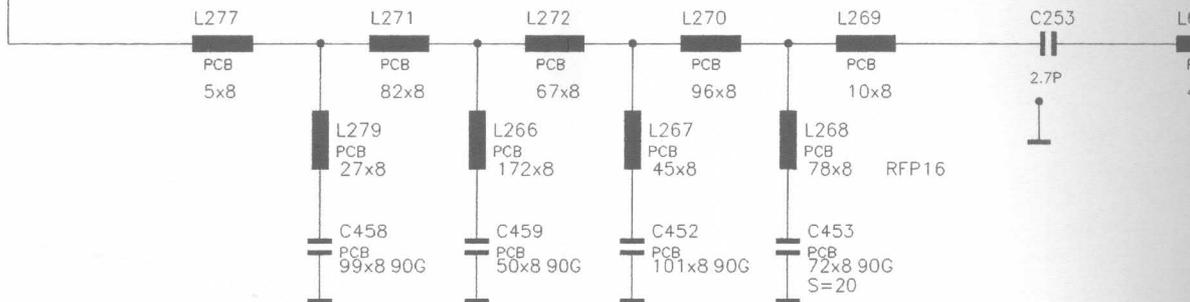
MIXER1

TP10000

HP3000

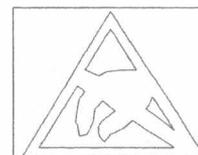


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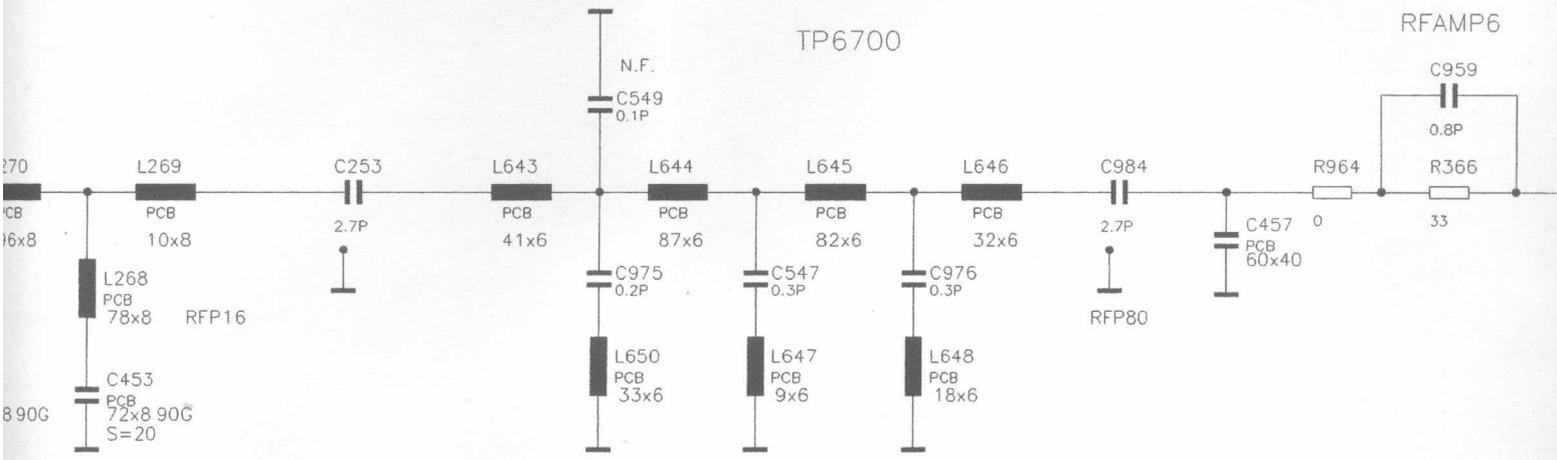
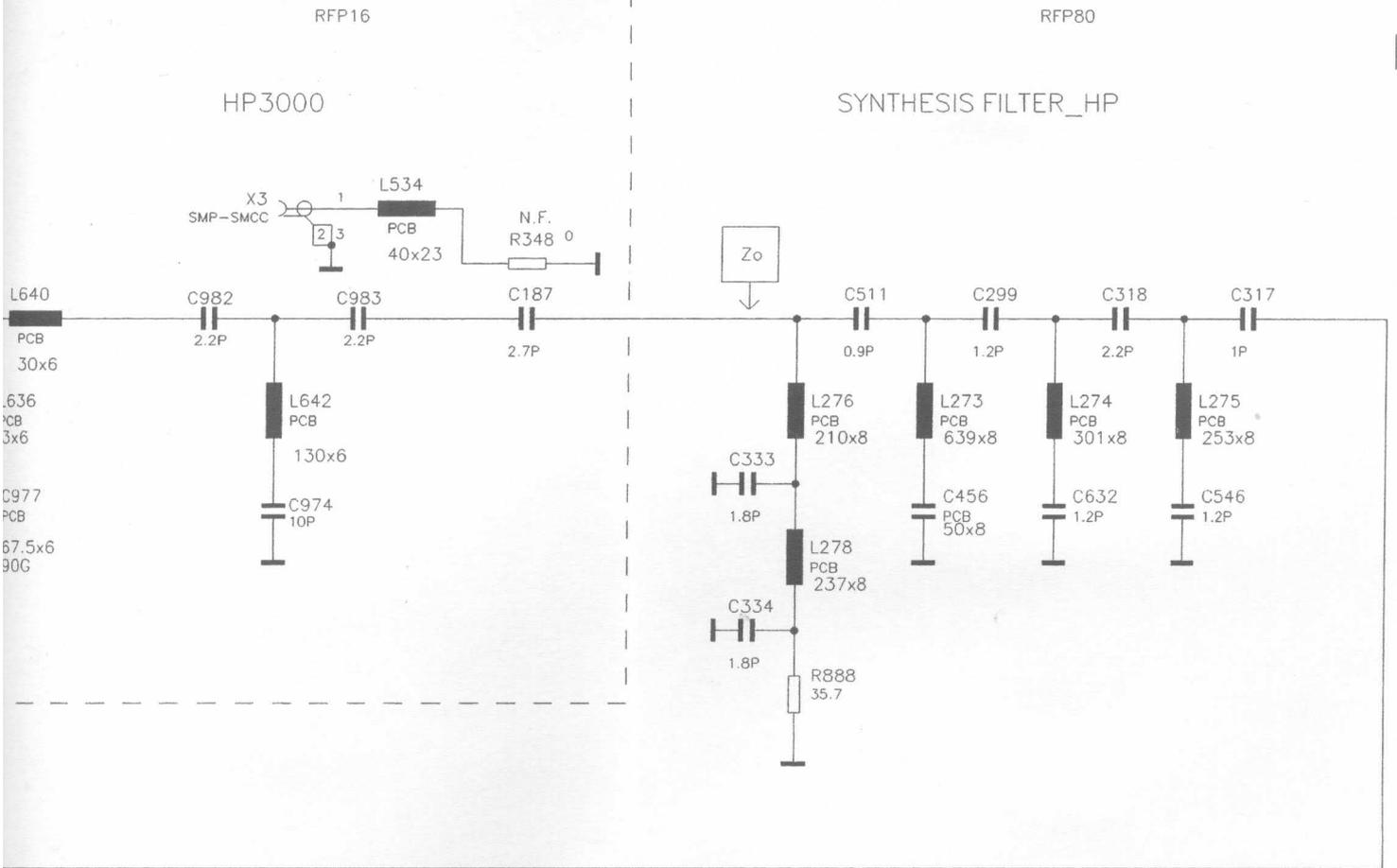
Bindende Angaben ueber Variator
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe

FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS VA
NONFITTED COMPONENTS SEE P



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

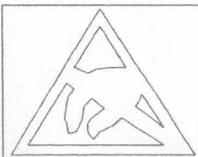
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ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

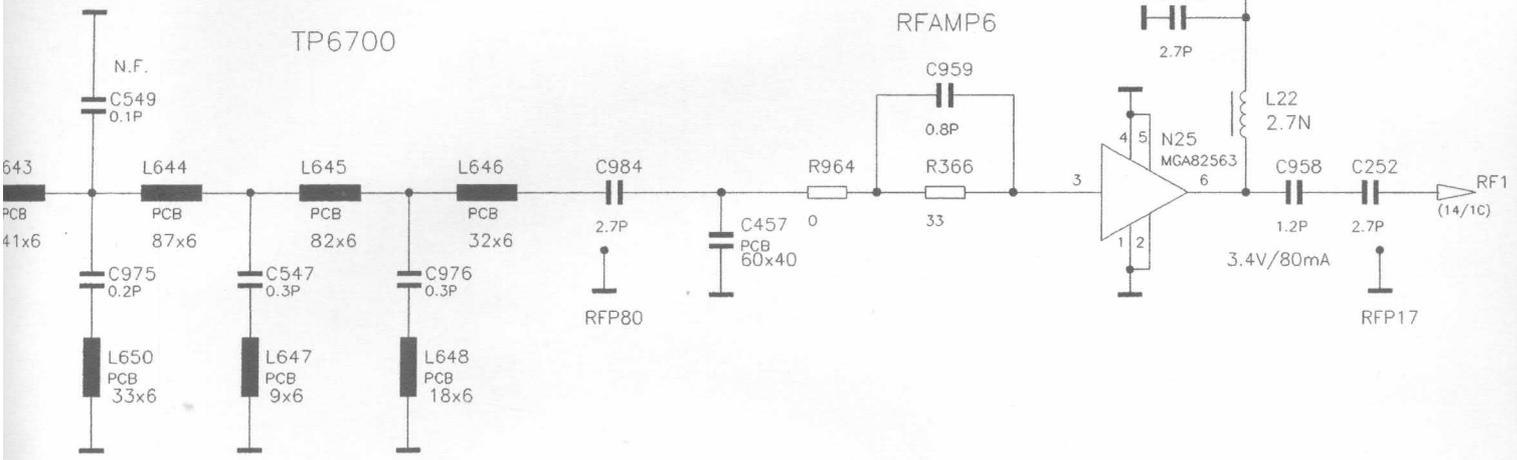
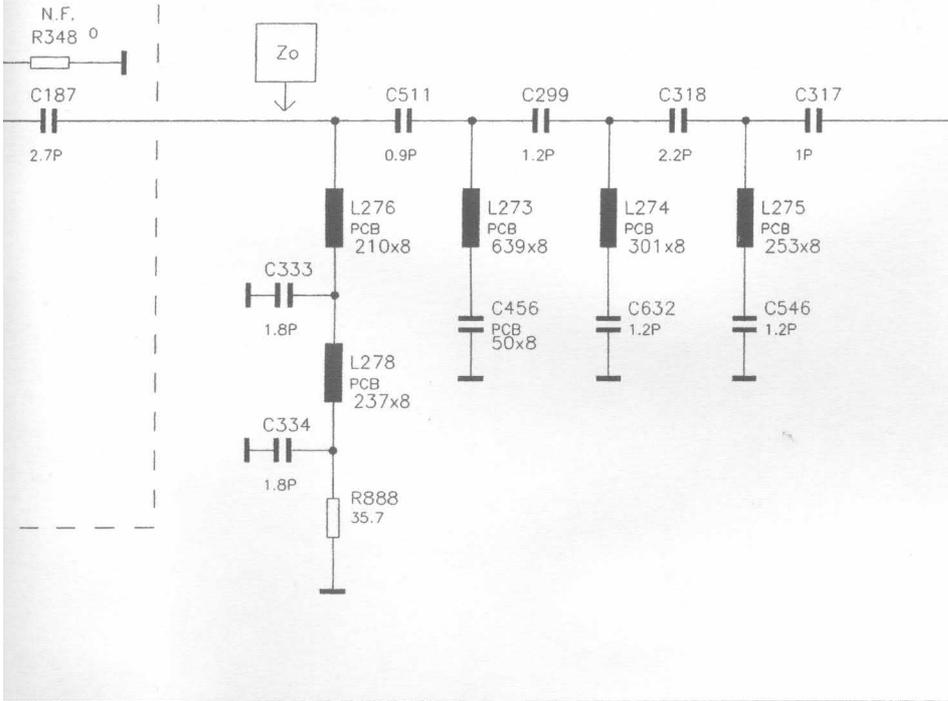
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		Typ: SMIQ J. Z.: 1084.8004.01 used in:	Datum: 99-09-09 Date:

RFP80

RFP17

K

SYNTHESIS FILTER_HP



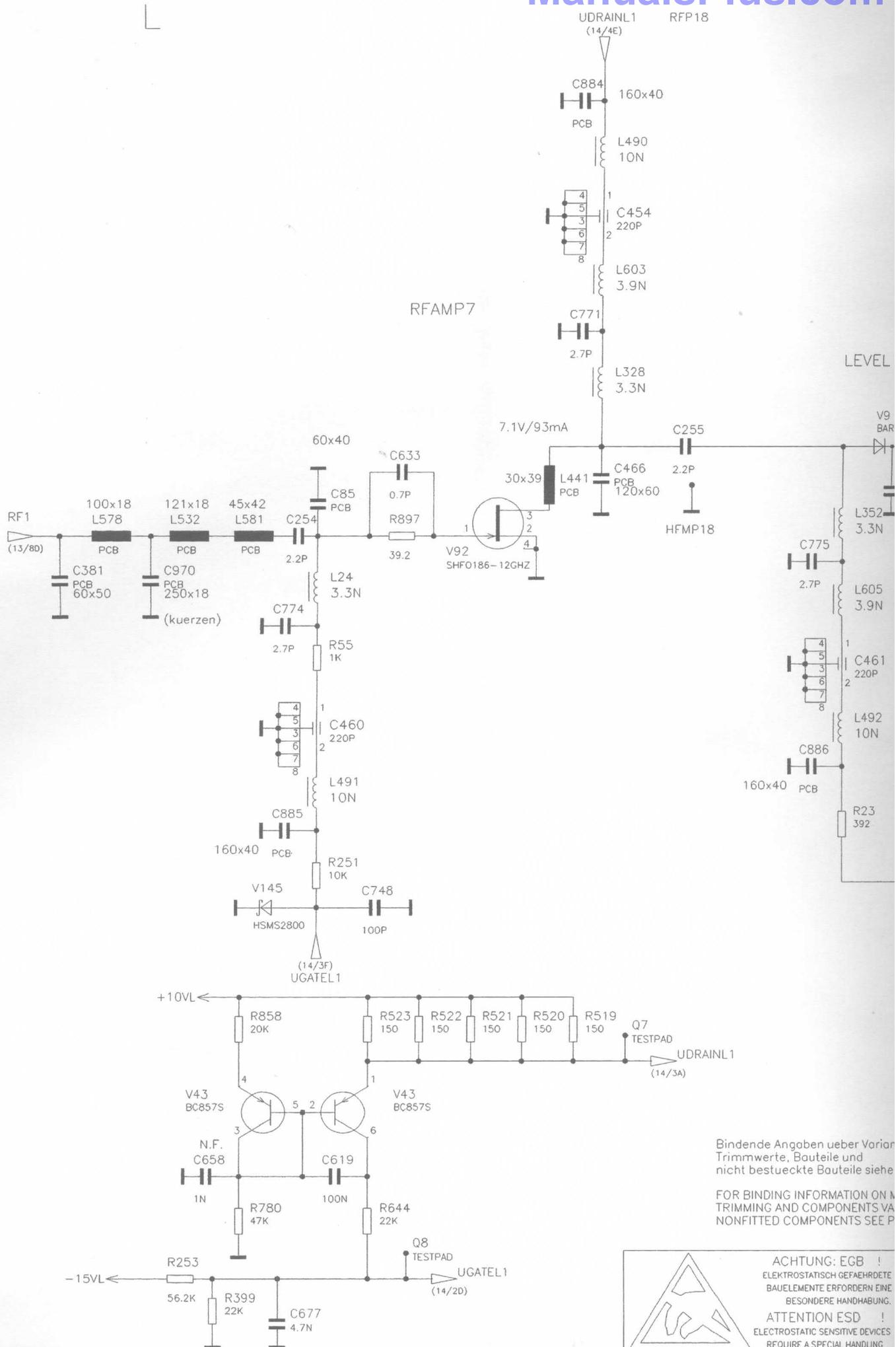
RF SYNTHESIS

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SA.
MODELS,
VALUES AND
PARTS LIST

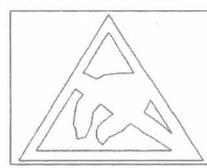
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Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01.S		
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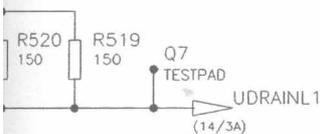
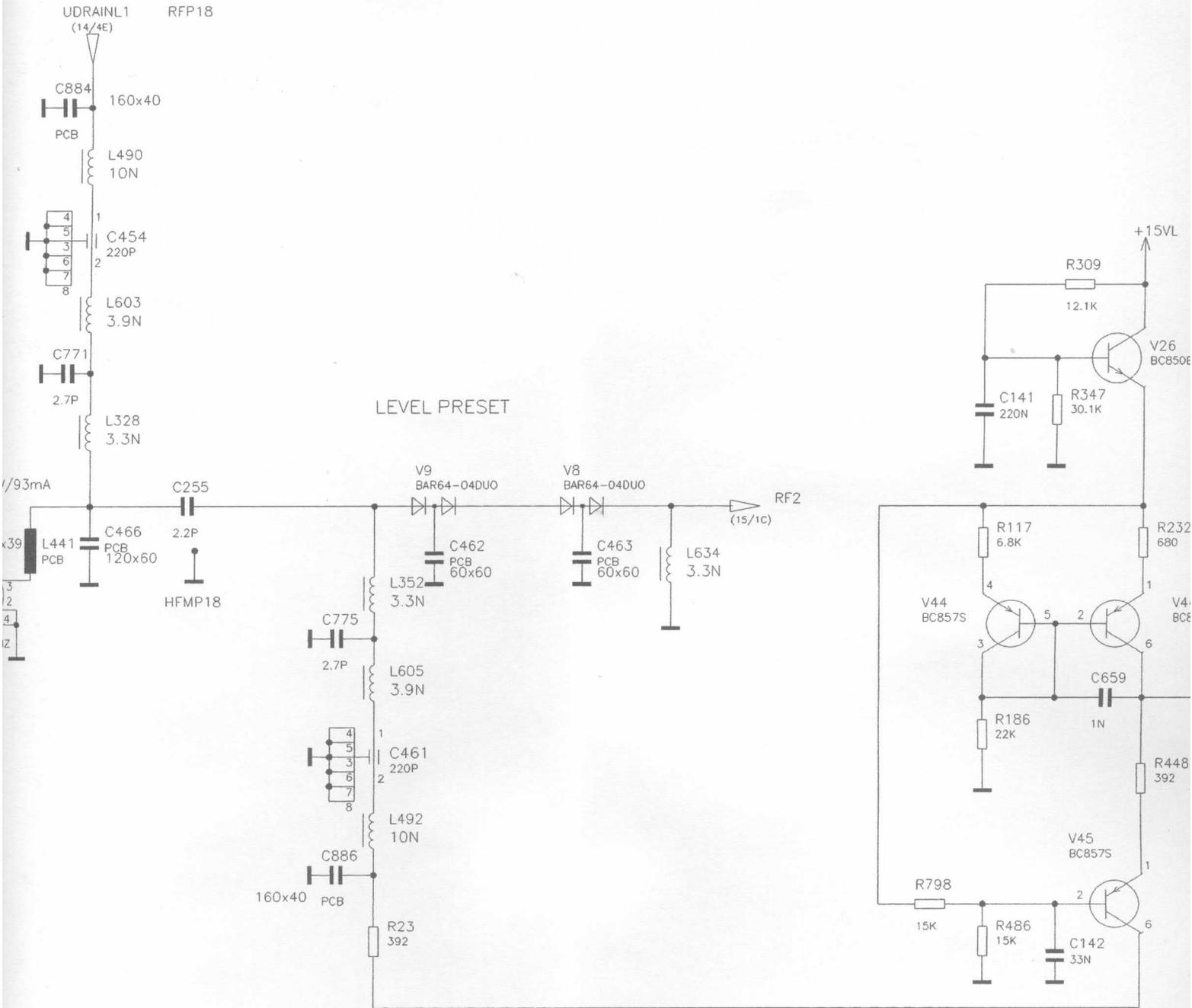
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FOR BINDING INFORMATION ON TRIMMING AND COMPONENTS VA NONFITTED COMPONENTS SEE P



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

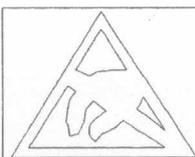
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Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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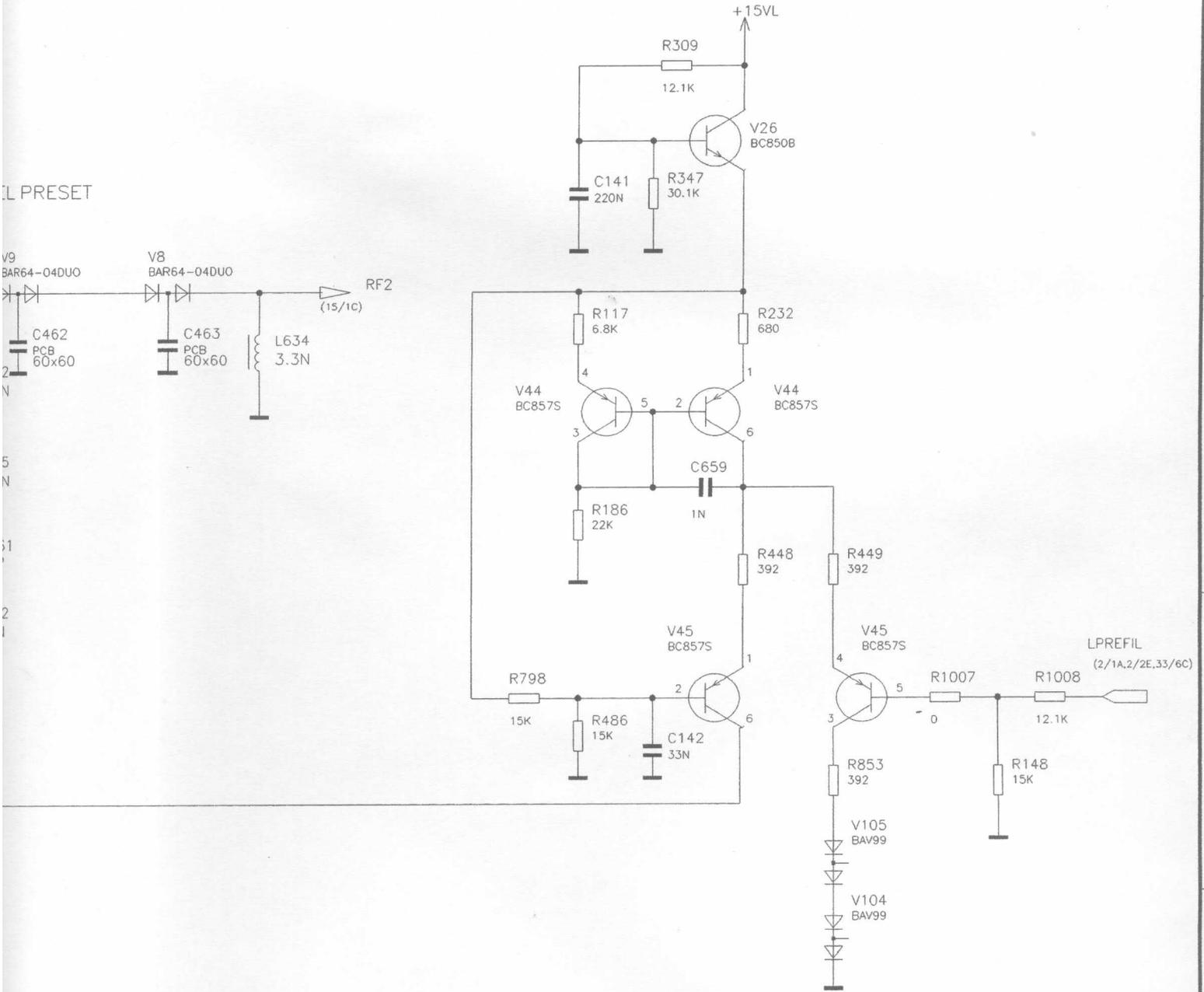
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST



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

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Name: H	
		Designation: 6-GHZ-EXTENSION		Name:	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK			
1. Z.: used in: 1084.8004.01	Date:	Dpt:			

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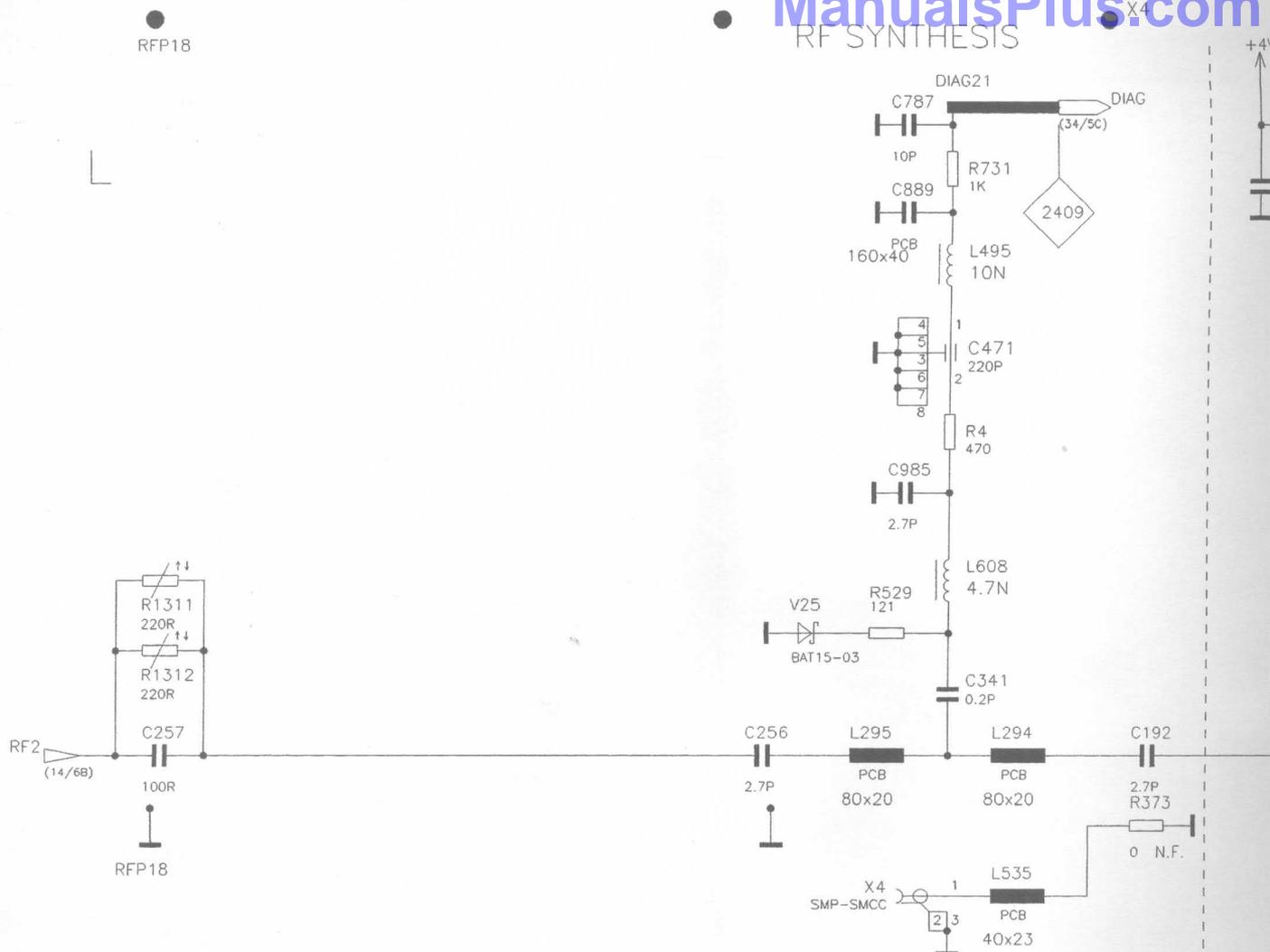
RF SYNTHESIS

IN MODELS,
VALUES AND
PARTS LIST

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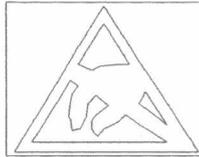
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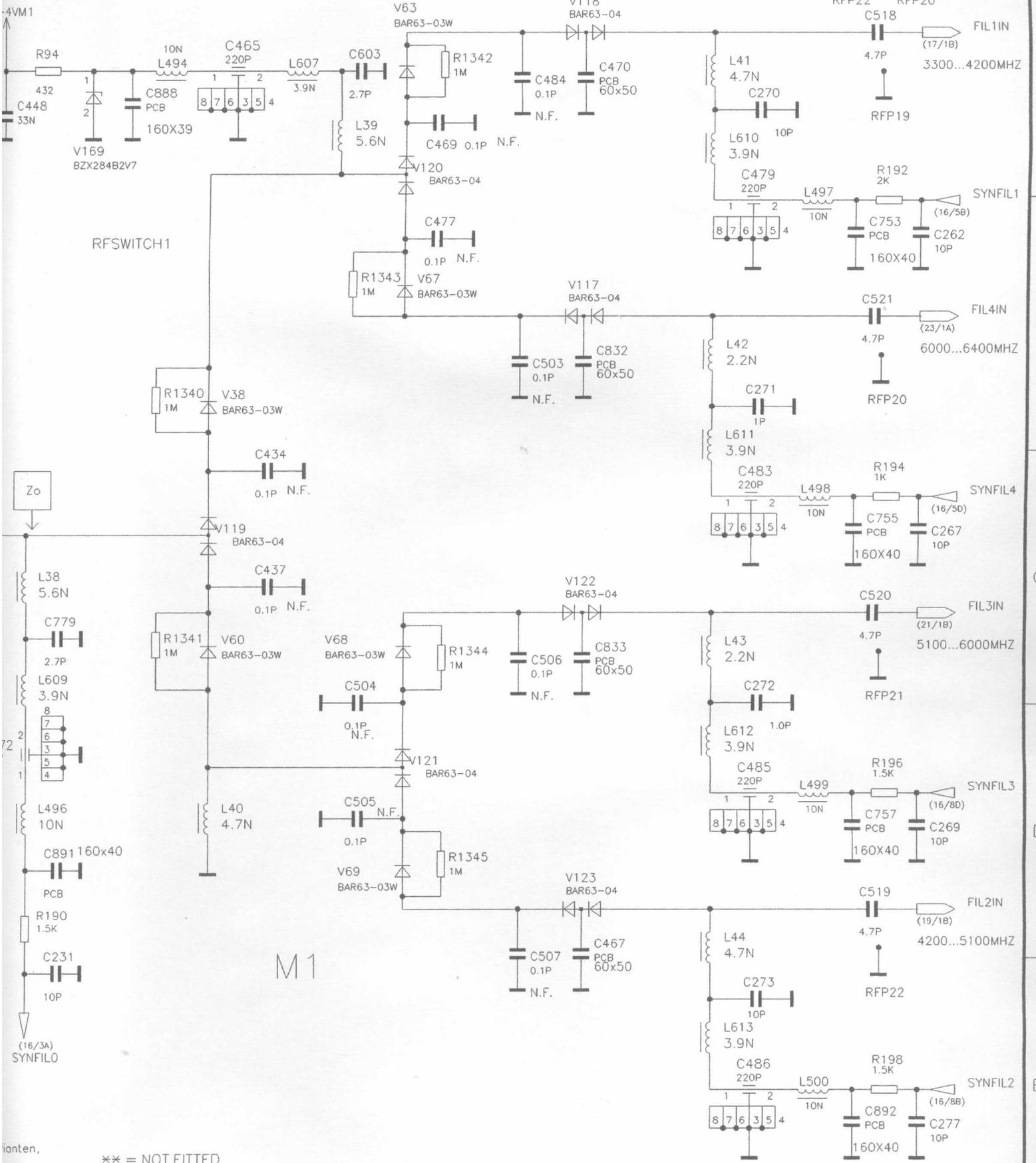


Bindende Angaben ueber Variator
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe

FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS VA
NONFITTED COMPONENTS SEE P



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



Antennen, die SA. ** = NOT FITTED

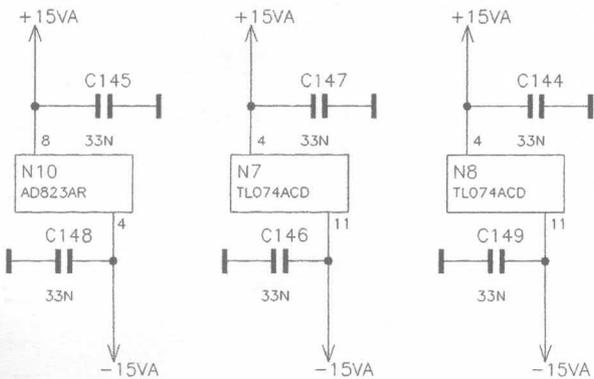
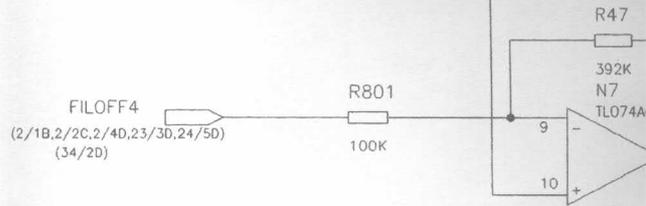
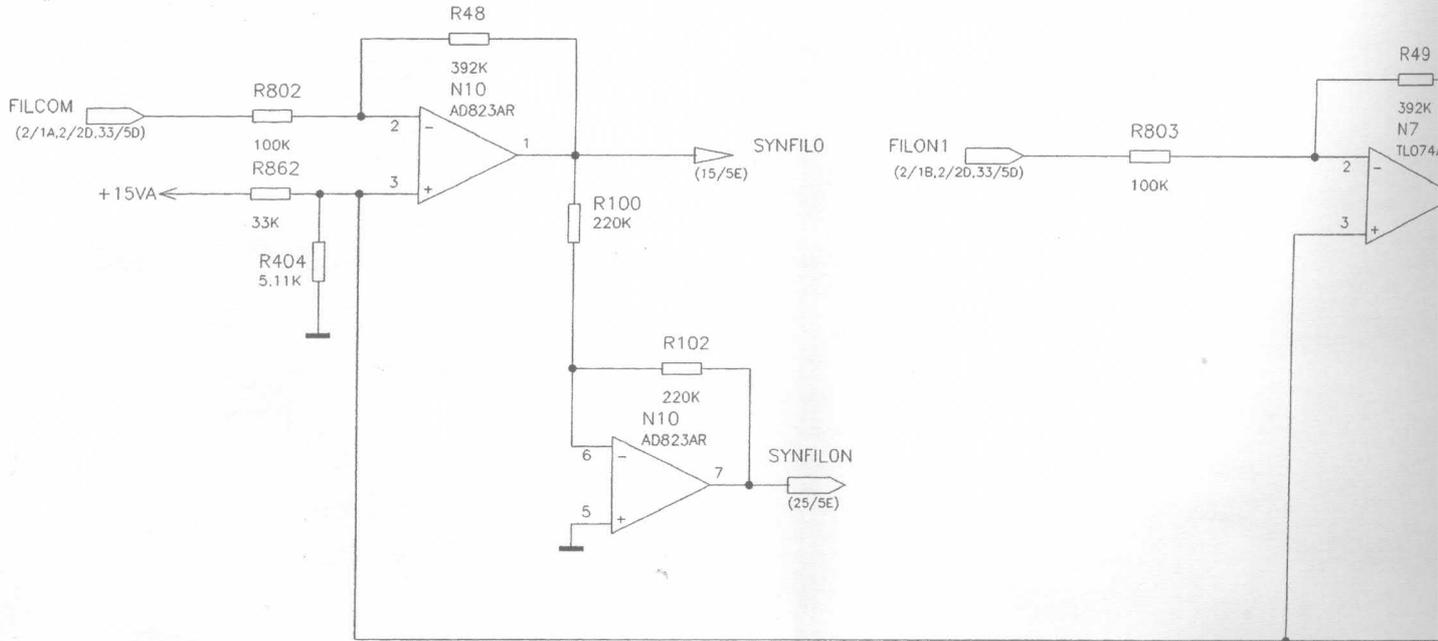
FOR OTHER MODELS, VALUES AND PARTS LIST

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Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
I. Z.: used in: 1084.8004.01		TOP/RF-SYNTHESE_38/RF-SYNTHESE.3								

M

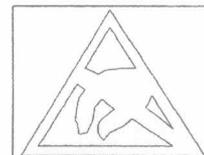
RF SYNTHESIS

SWITCH DRIVER



Bindende Angaben ueber Variator
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe

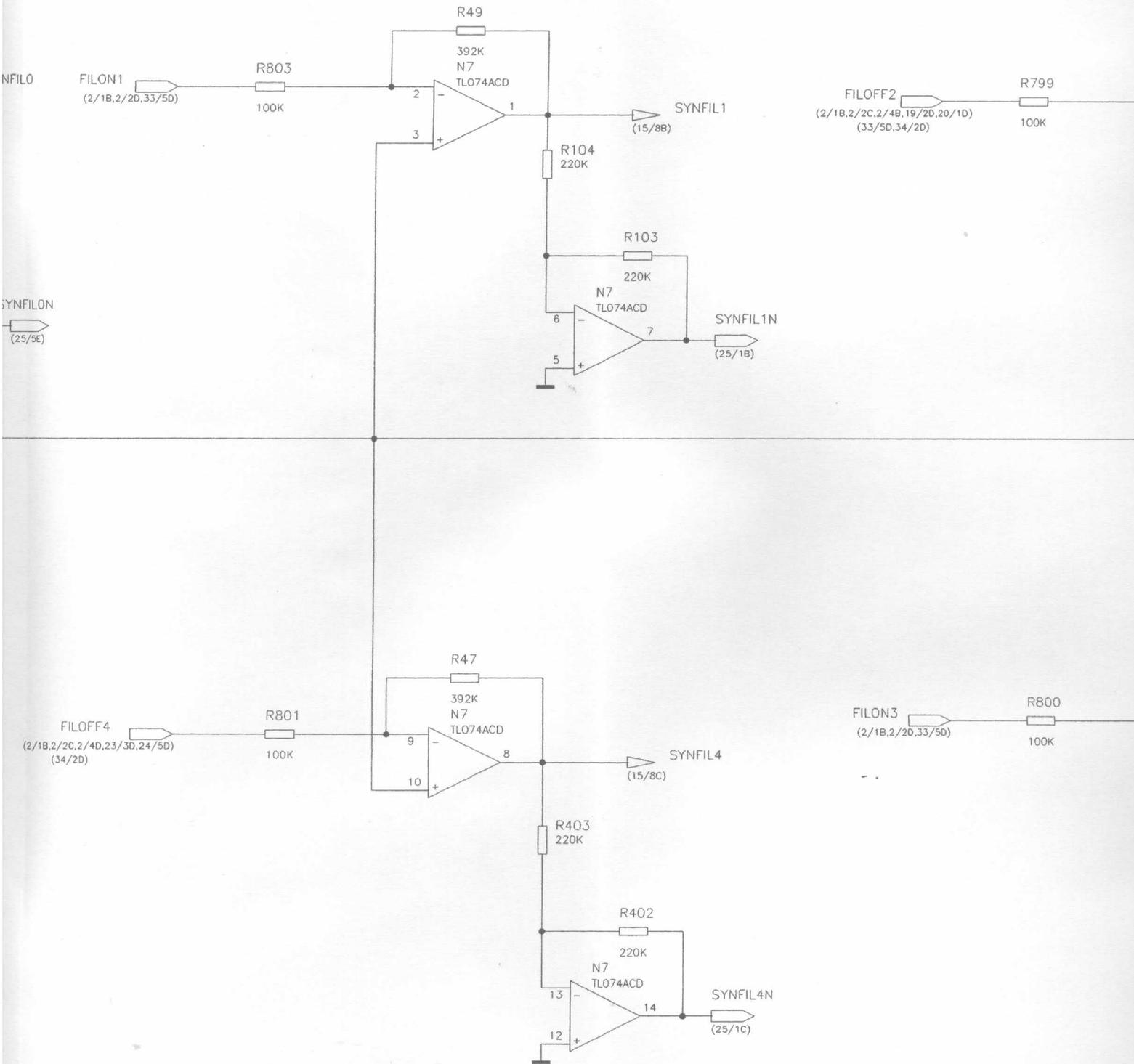
FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS VA
NONFITTED COMPONENTS SEE P



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

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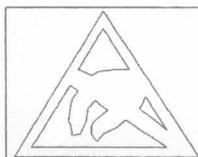
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Bindende Angaben ueber Varianten,
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe SA.

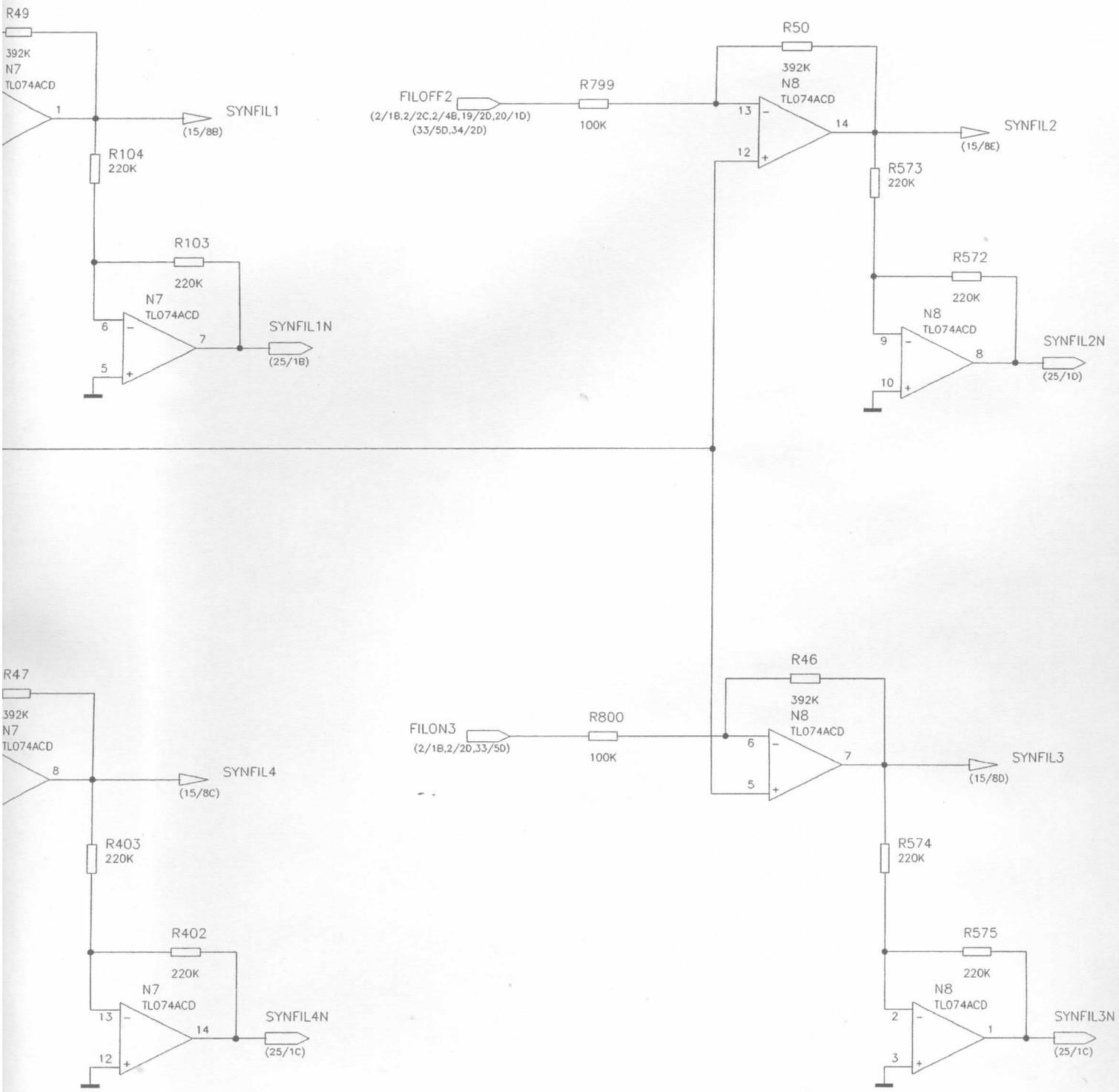
** = NOT FITTED

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



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

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUN	Designation: 6-GHZ-EXTENSION
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	
1. Z.: 1084.8004.01	Dpt:		



Varianten, siehe SA. ** = NOT FITTED

ON MODELS. VALUES AND SEE PARTS LIST

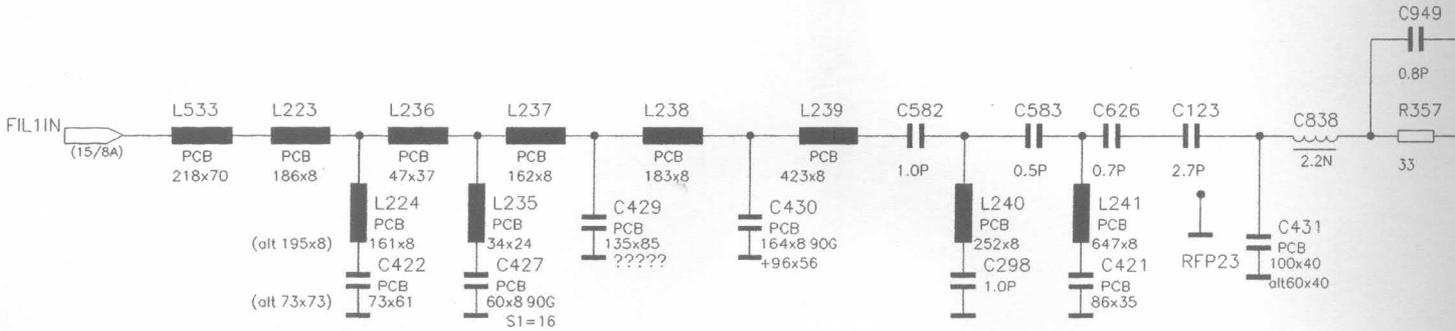
! HRDETE RN EINE ABUNG. ! DEVICES DLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 16+	
Type: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01								TOP/RF-SYNTHES_38/RF-SYNTHES_4	

Q

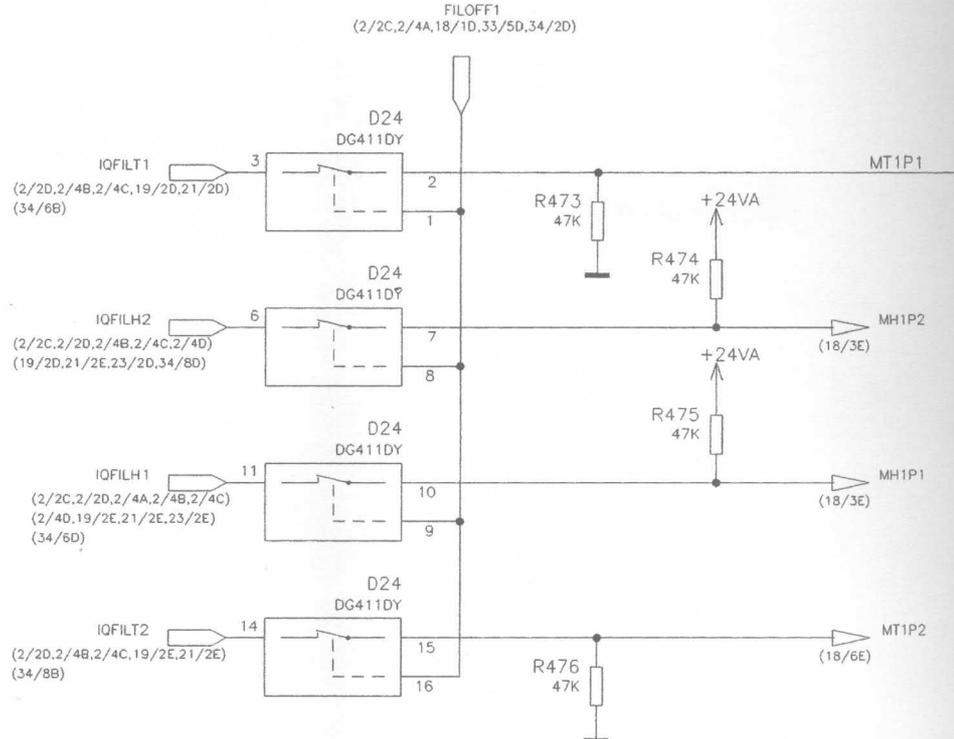
BP_1

BAND 1 3300...4200 MHZ



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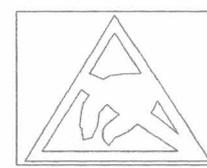
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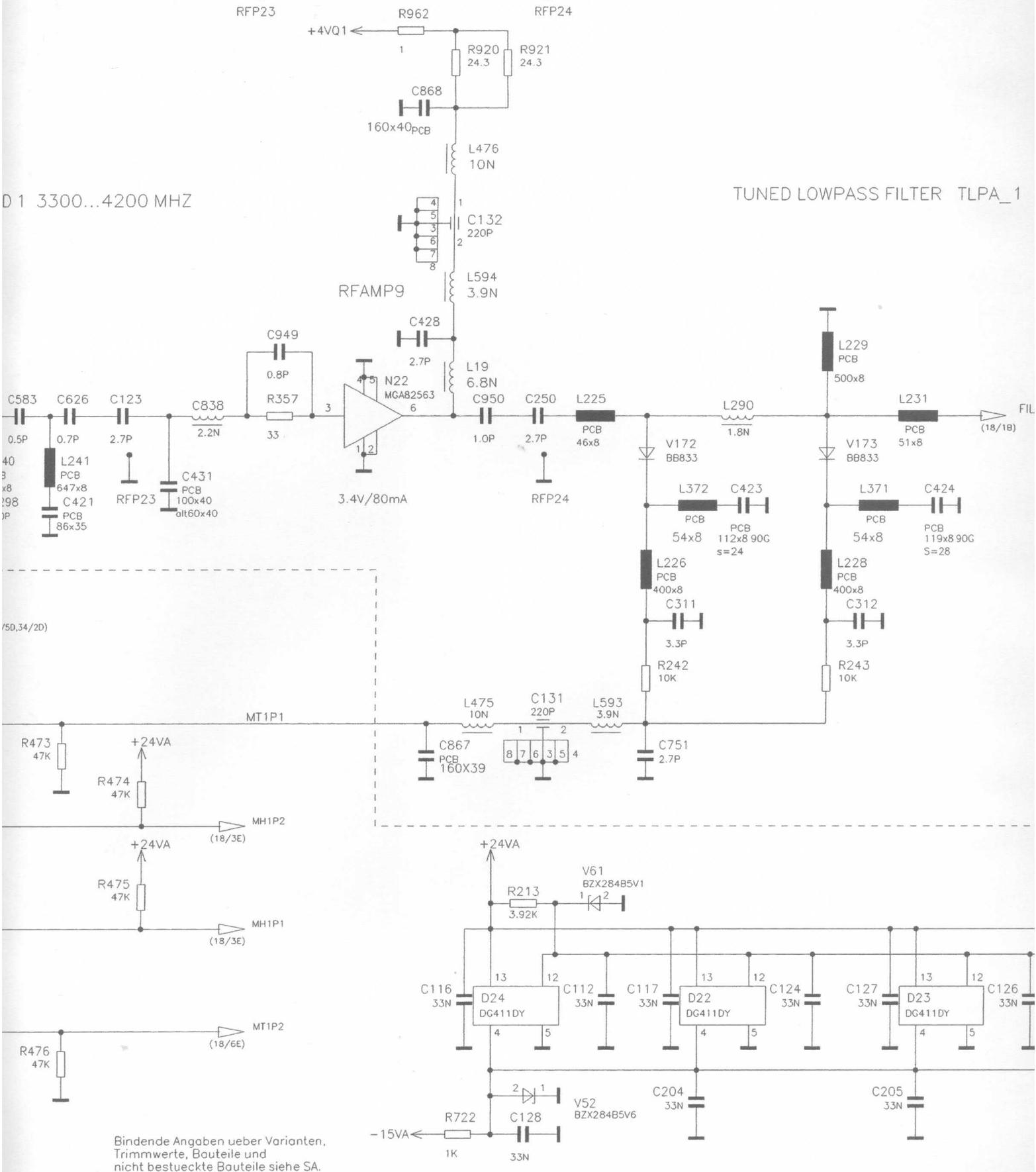
** = NOT FITTED

Bindende Angaben ueber Variationswerte, Bauteile und nicht bestueckte Bauteile siehe:

FOR BINDING INFORMATION ON VARIATION VALUES, COMPONENTS AND NONFITTED COMPONENTS SEE P.



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



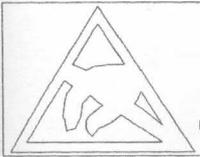
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TUNED LOWPASS FILTER TLPA_1

50,34/20)

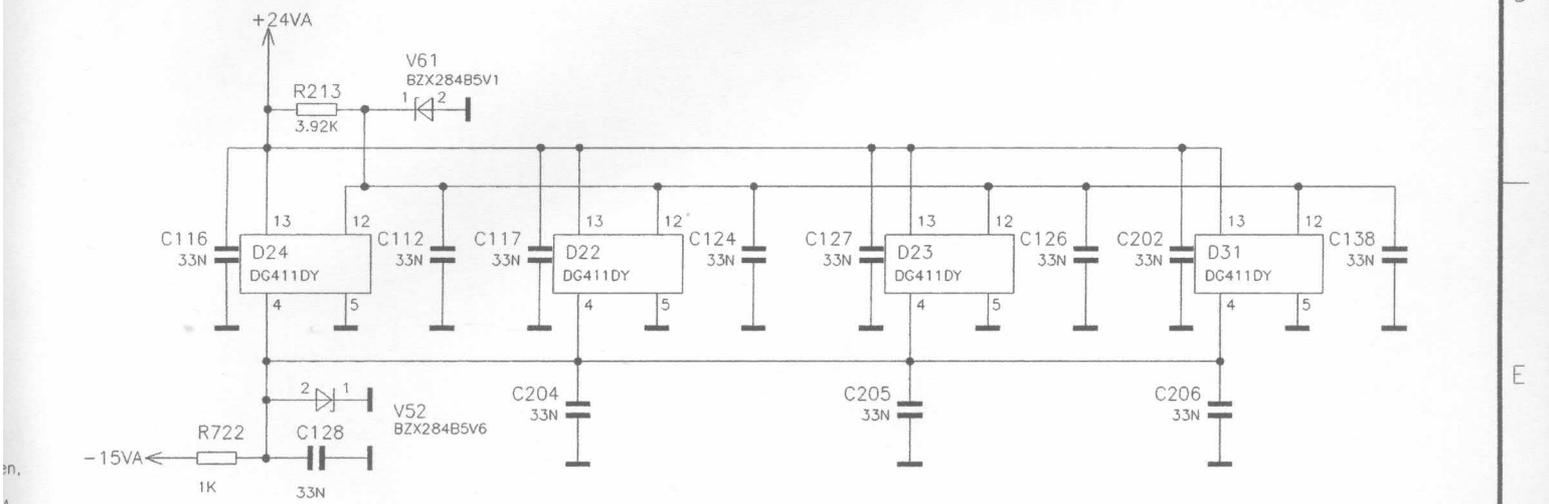
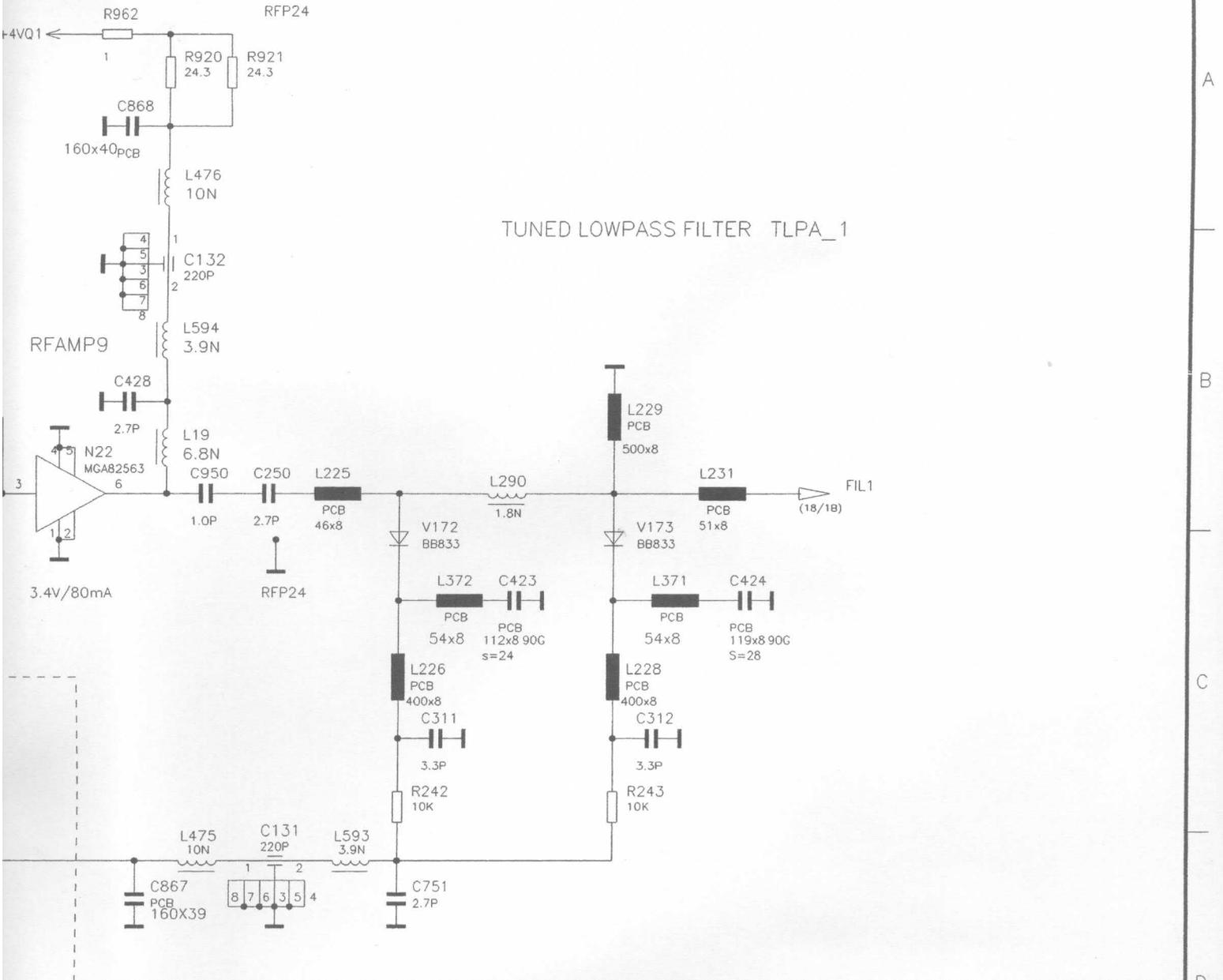
NOT FITTED
 FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

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



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

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERG		
1. Z.: 1084.8004.01	Date: 99-09-09	Dpt:	Name: HOFBERG		



DEL.
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ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Long.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 17+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01								TOP/BAND1_36/BAND1.1	

RFP25

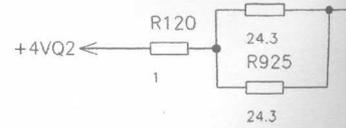
RFP26

RFP27

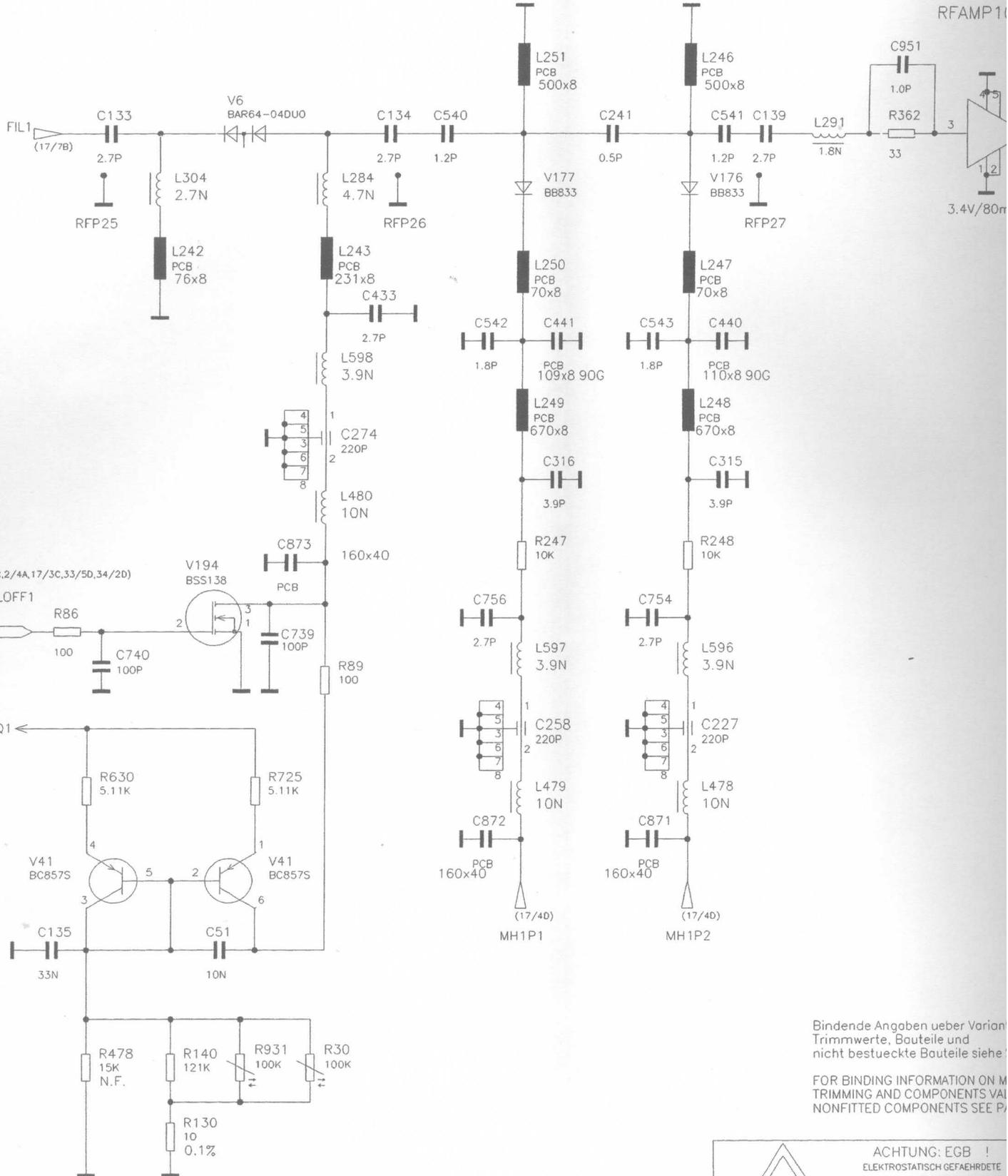
R924

TATT_1
-3dB at 25 °C

THP_1

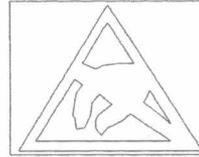


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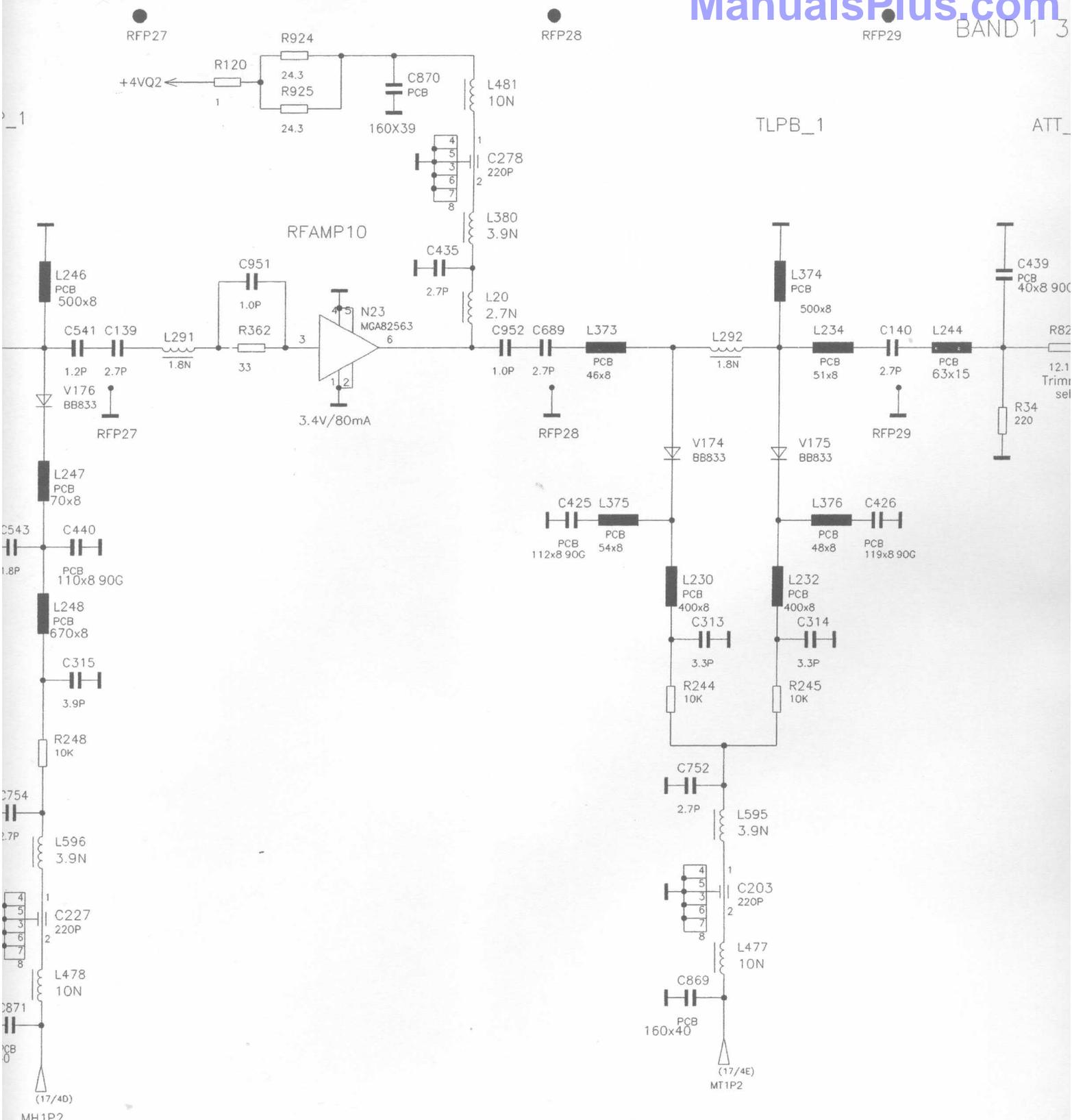


Bindende Angaben ueber Varion
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe:

FOR BINDING INFORMATION ON M
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NONFITTED COMPONENTS SEE P:



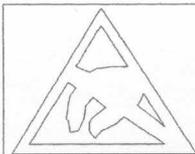
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFOEDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING



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

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

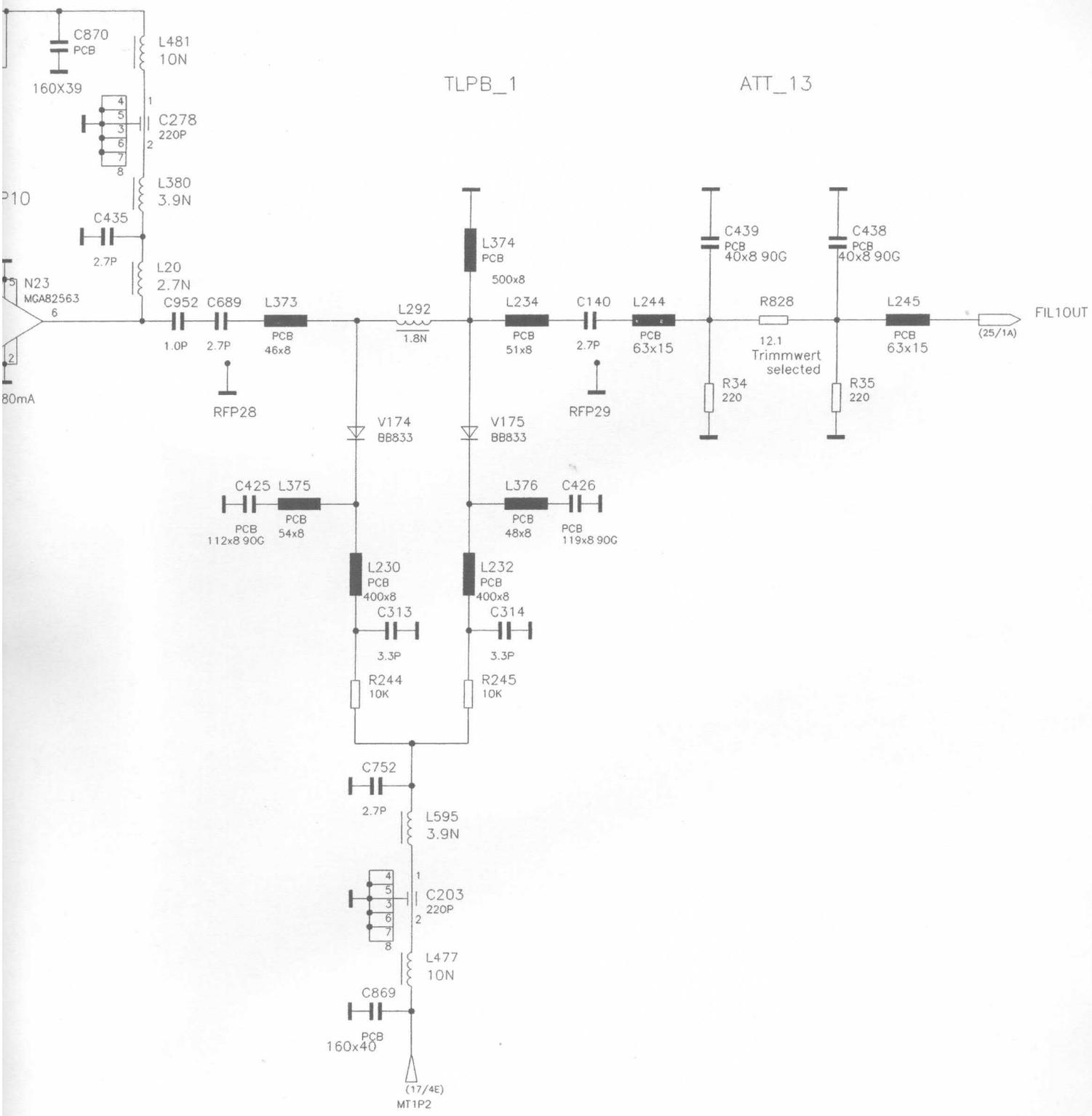


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFOEDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Date: 99-09-09		Abteilung: 1GPK		Name: HOFB	
Type: SMIQ		Designation: 6-GHZ-EXTENSION		Date: 99-09-09		Dpt: 1GPK		Name: HOFB	
1. Z.: used in: 1084.8004.01								TOP/BAN	

RFP28

RFP29



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IN MODELS, VALUES AND PARTS LIST

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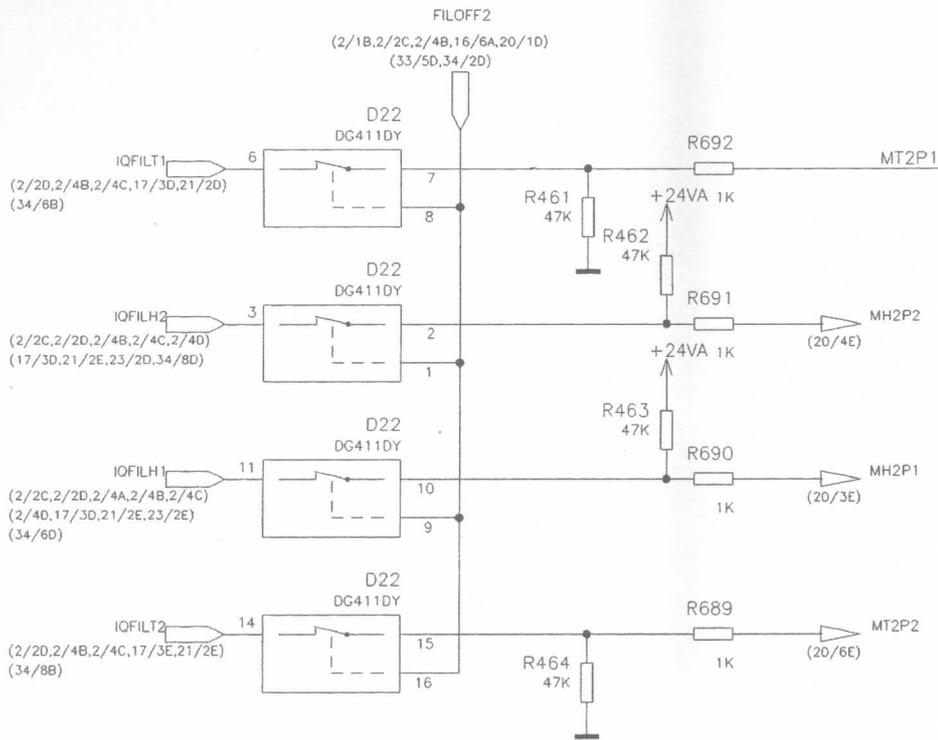
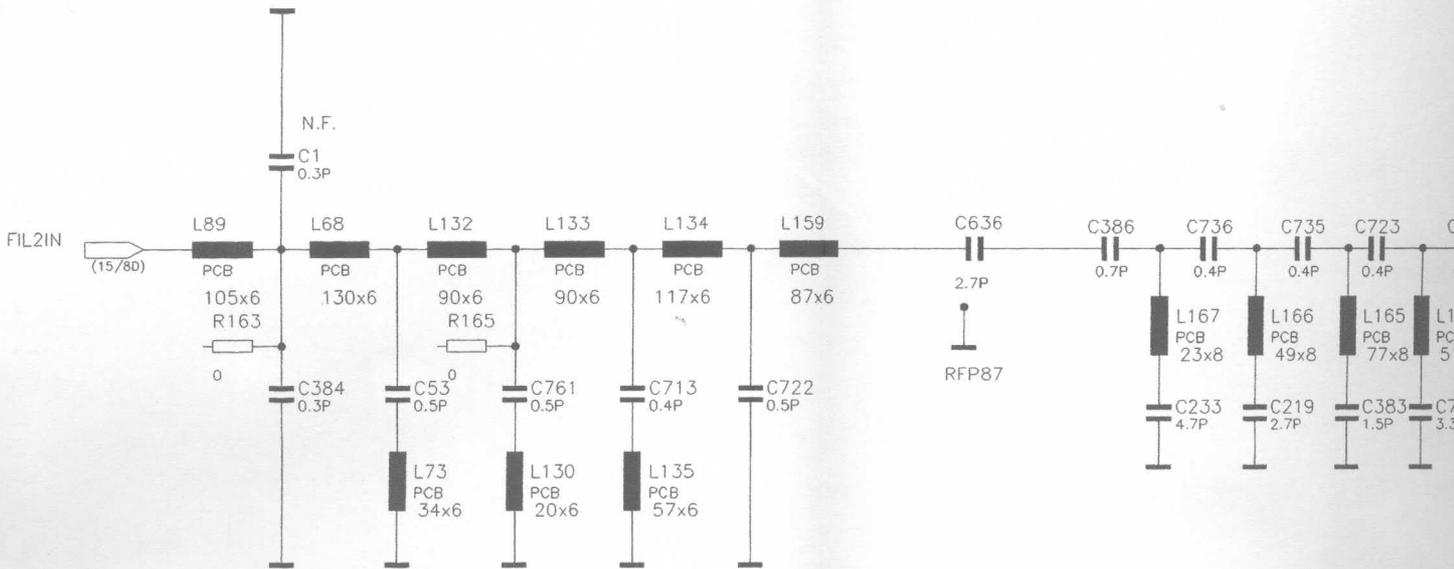
ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache / Lang.: DE	Aei / C.I.: 06.05	Blatt / Sh.: 18+
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE	Zeichn. Nr.: / Drawing No.: 1084.9600.01 S			
1. Z.: used in: 1084.8004.01				TOP/BAND1_36/BAND1.2			

BAND 2 4200...5100 MHz

N

TP5100

HP4000



Bindende Angaben ueber Variant
 Trimmwerte, Bauteile und
 nicht bestueckte Bauteile siehe S

FOR BINDING INFORMATION ON M
 TRIMMING AND COMPONENTS VAL
 NONFITTED COMPONENTS SEE PA

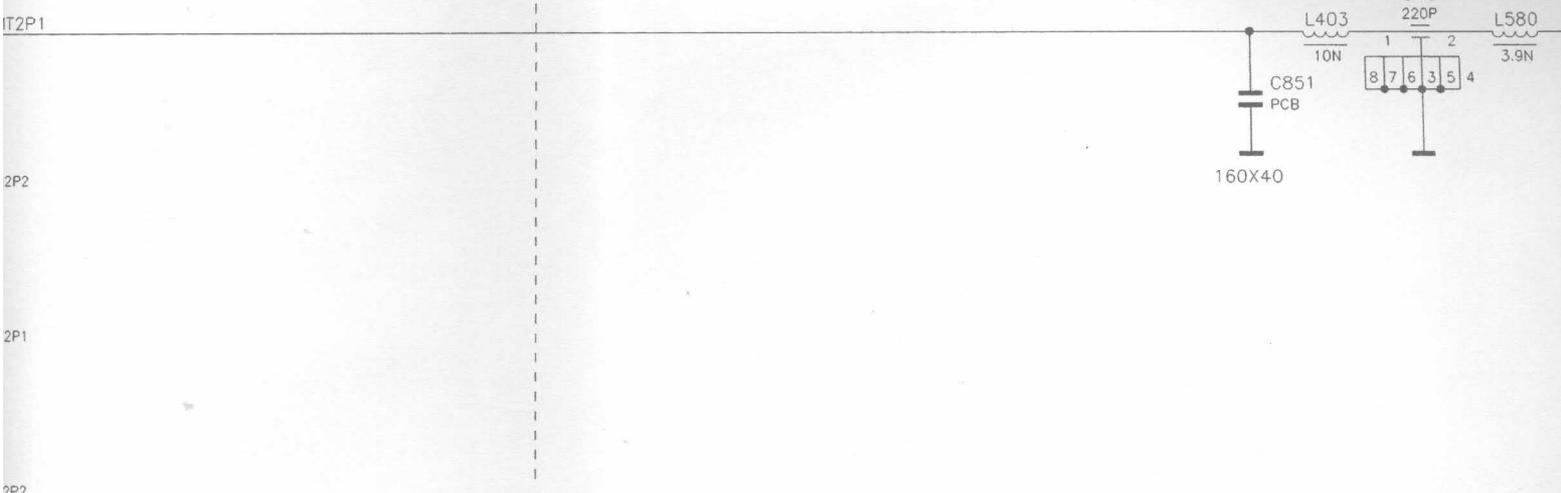
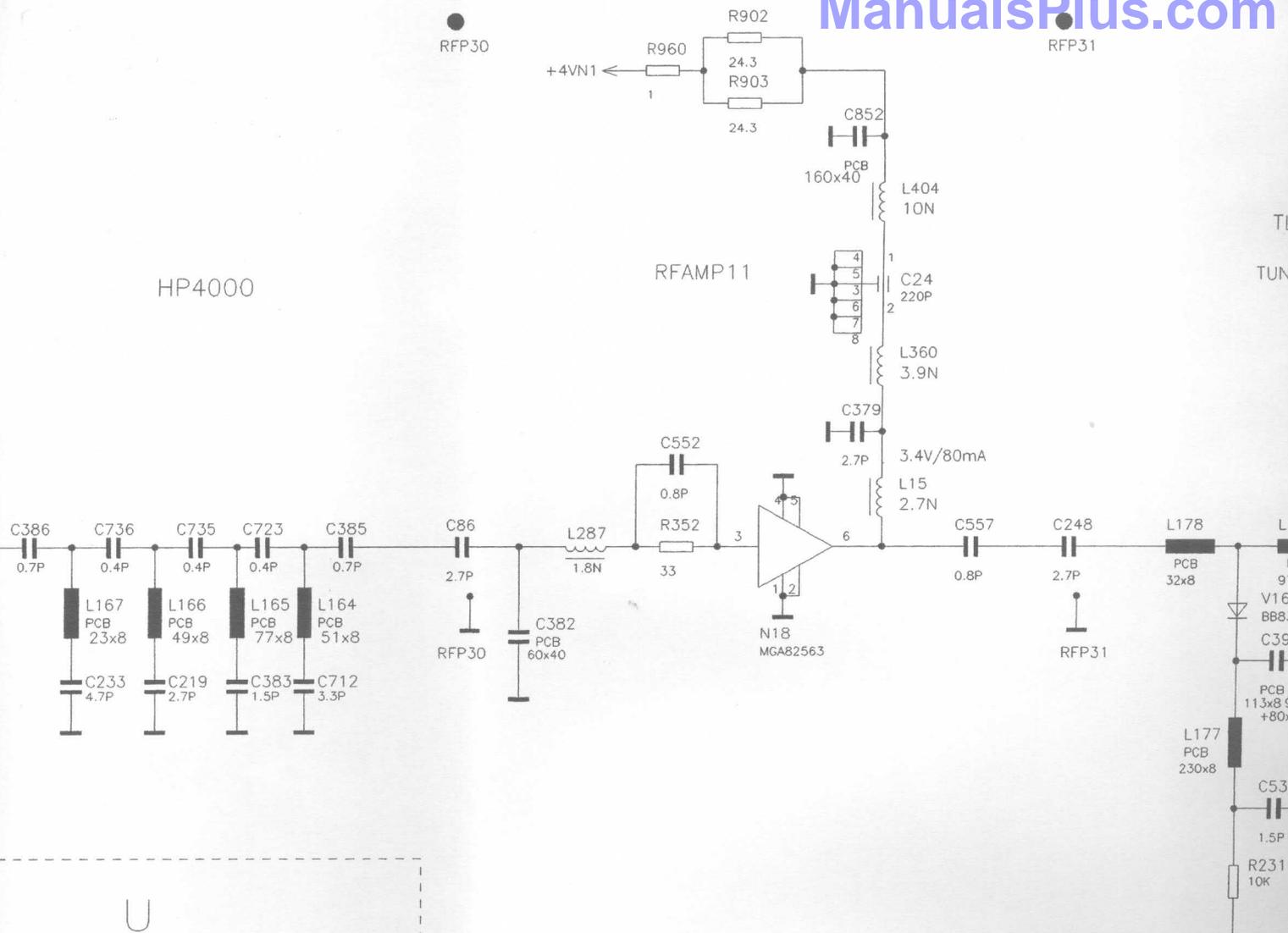


ACHTUNG: EGB !
 ELEKTROSTATISCH GEFAEHRDETE
 BAUELEMENTE ERFOEDERN EINE
 BESONDERE HANDHABUNG.
 ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

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HP4000

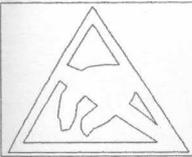
RFAMP11



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

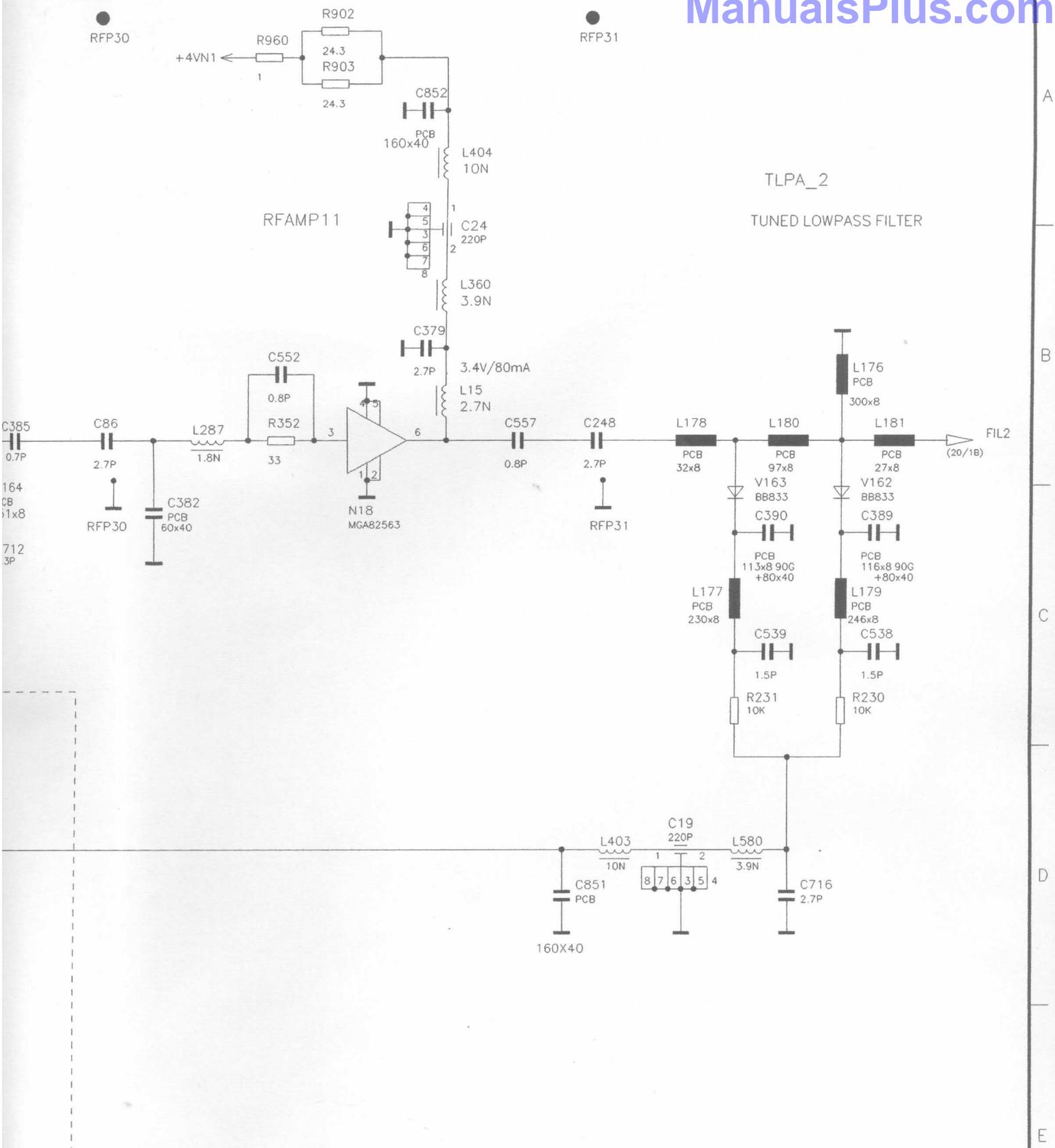
** = NOT FITTED

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



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

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE
1. Z.: 1084.8004.01	Date:	Dpt:	Name:



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SA.
** = NOT FITTED

MODELS,
LUES AND
ARTS LIST

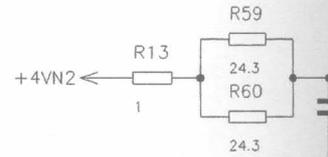
ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Lang.: DE	Aei: / C.I.: 06.05	Blatt: / Sh.: 19+
Typ: SMIQ		Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE	Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
I. Z.: used in: 1084.8004.01					TOP/BAND2_34/BAND2.1		

RFP32

RFP33

RFP64

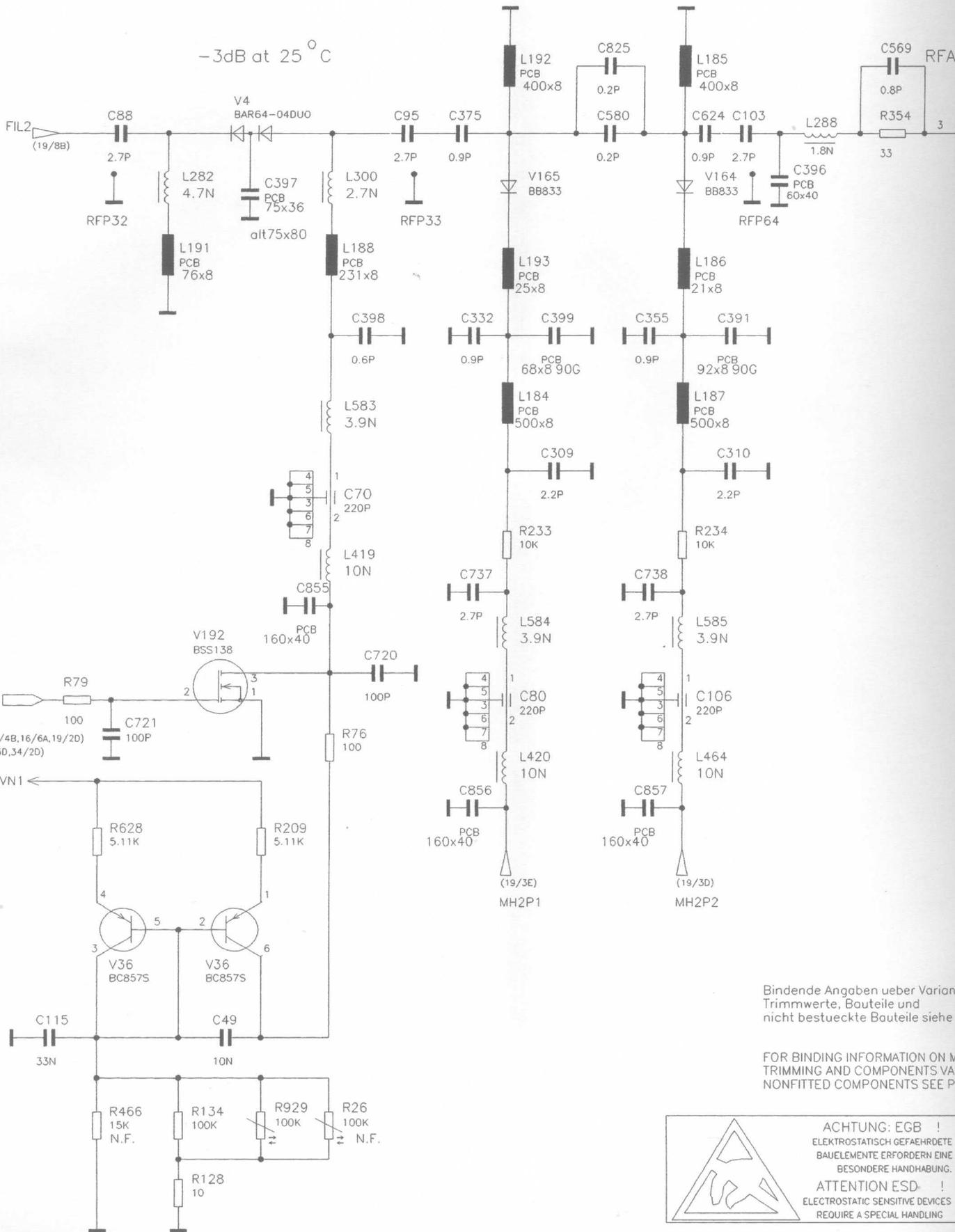
TUNED HIGHPASS FILTER



TATT_2

THP_2

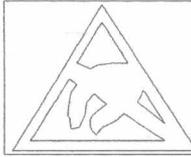
-3dB at 25 °C



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Bindende Angaben ueber Varian
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe

FOR BINDING INFORMATION ON M
TRIMMING AND COMPONENTS VAI
NONFITTED COMPONENTS SEE P.

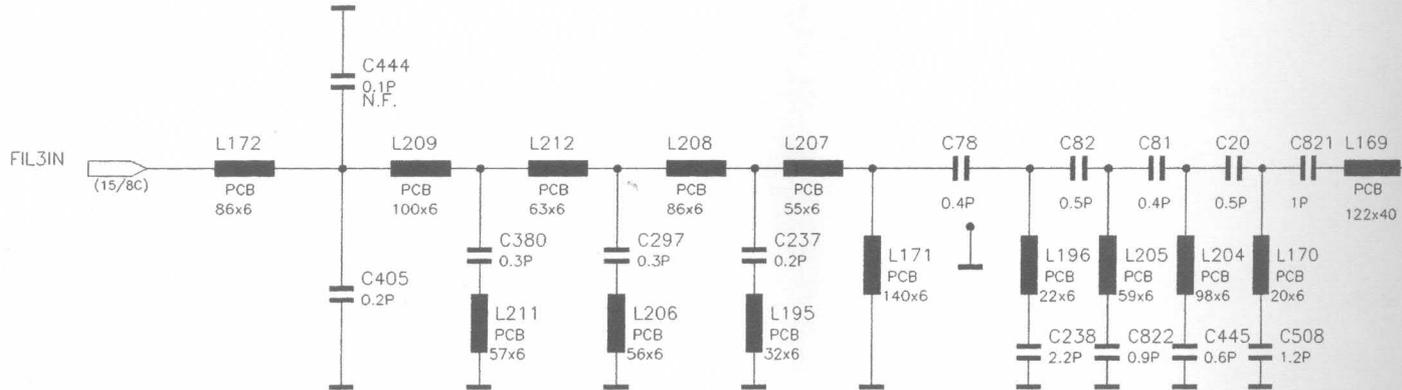


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFOEDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

BAND 3 5100...6000 MHZ

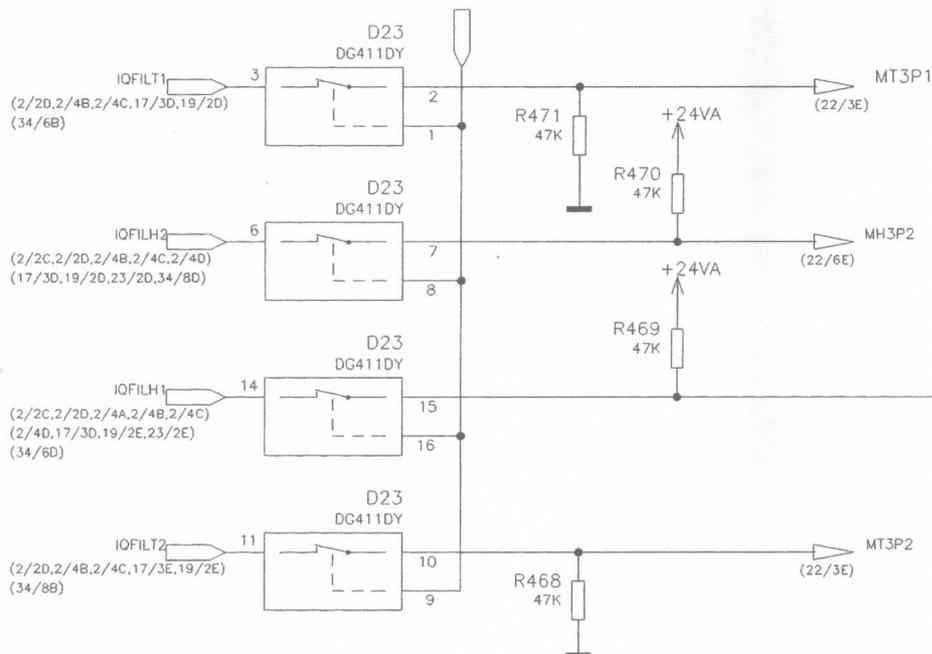
BAND PASS FILTER

BP_3



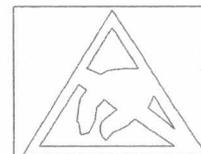
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FILOFF3
(2/2C,2/4C,22/10,33/50,34/2D)



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

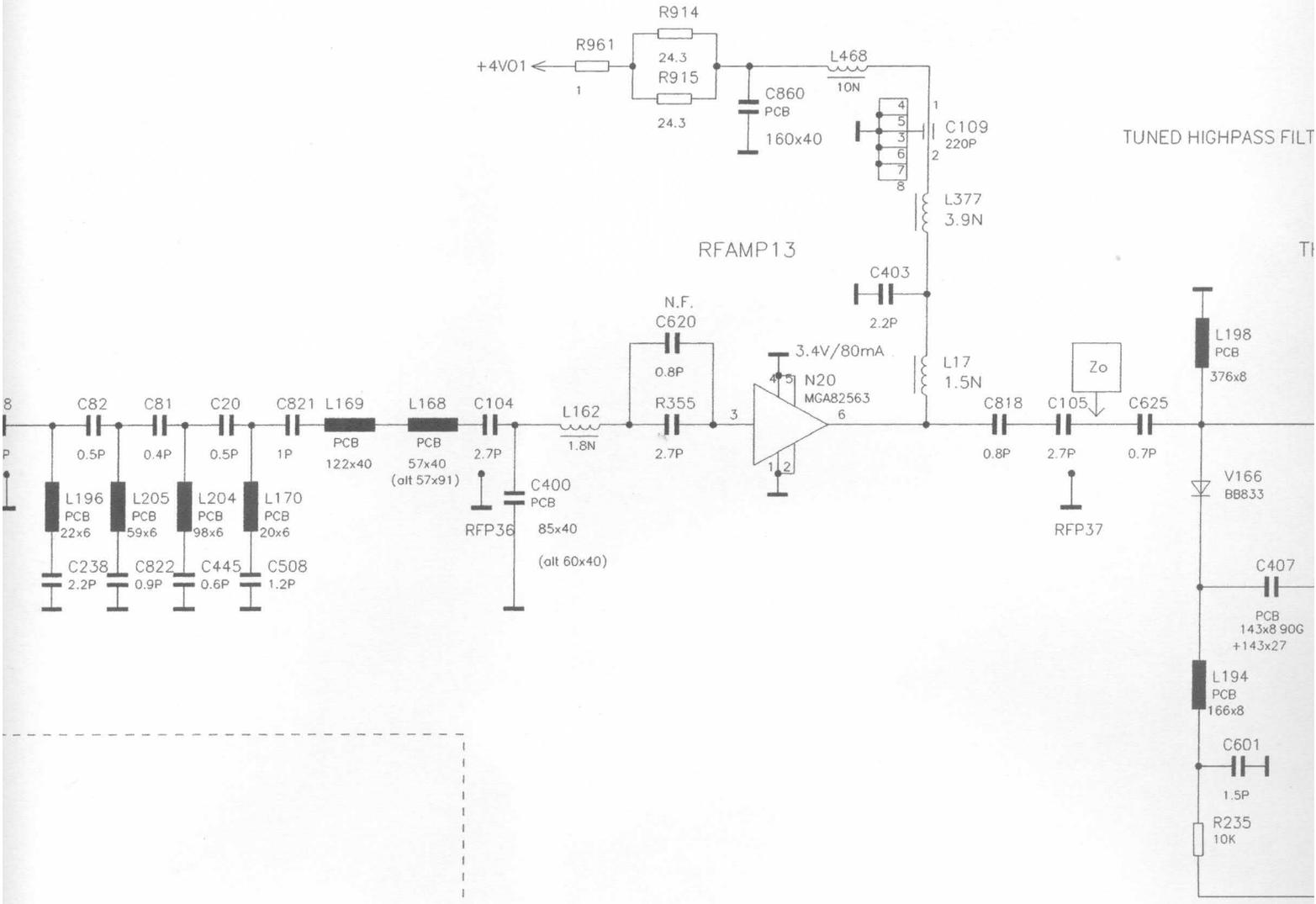
FOR BINDING INFORMATION ON MODEL TRIMMING AND COMPONENTS VALUES NONFITTED COMPONENTS SEE PARTS



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

RFP36

RFP37



TUNED HIGHPASS FILTER

RFAMP13

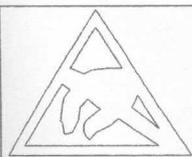
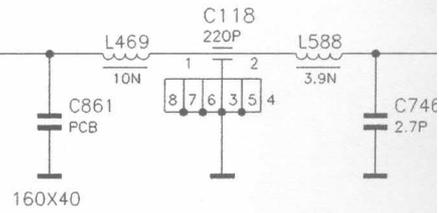
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Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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

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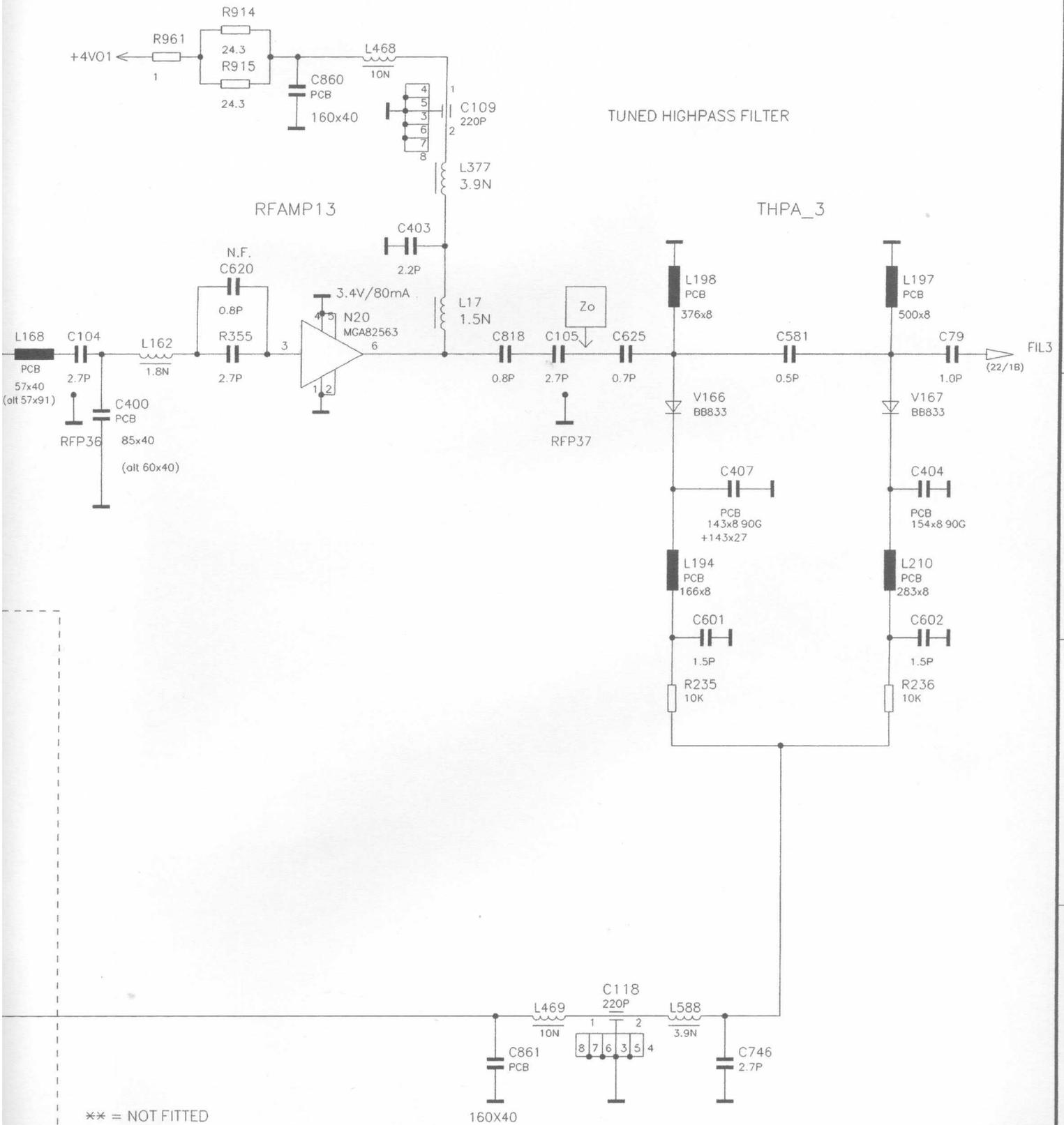


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERG
1. Z.: 1084.8004.01			TOP/BAND3_35/

RFP36

RFP37



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ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 21+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
1. Z.: 1084.8004.01								TOP/BAND3_35/BAND3.1		

RFP38

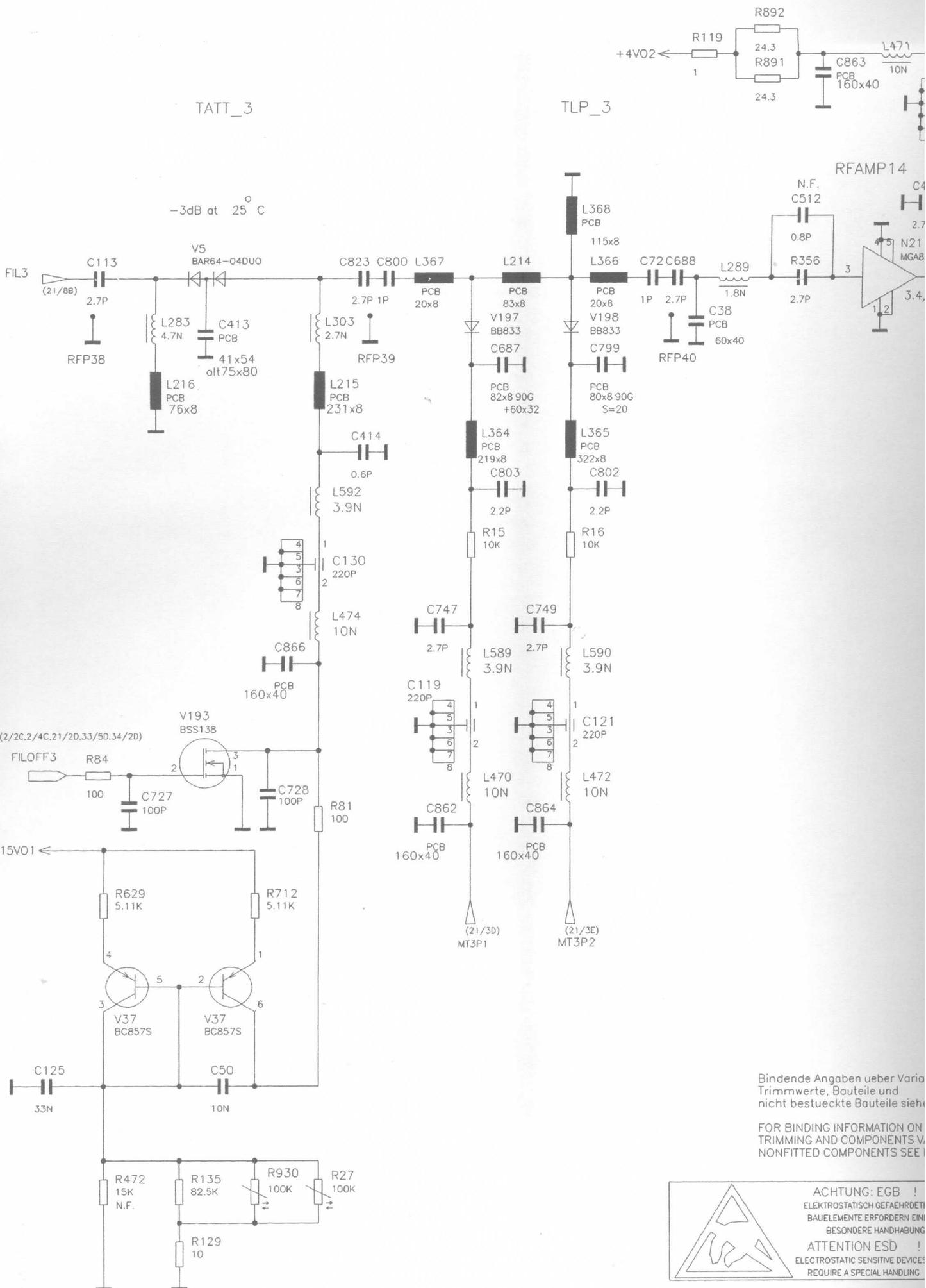
RFP39

RFP40

TATT_3

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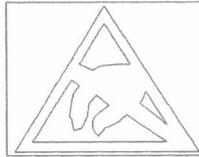
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Bindende Angaben ueber Varia
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FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS V.
NONFITTED COMPONENTS SEE I



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

1

2

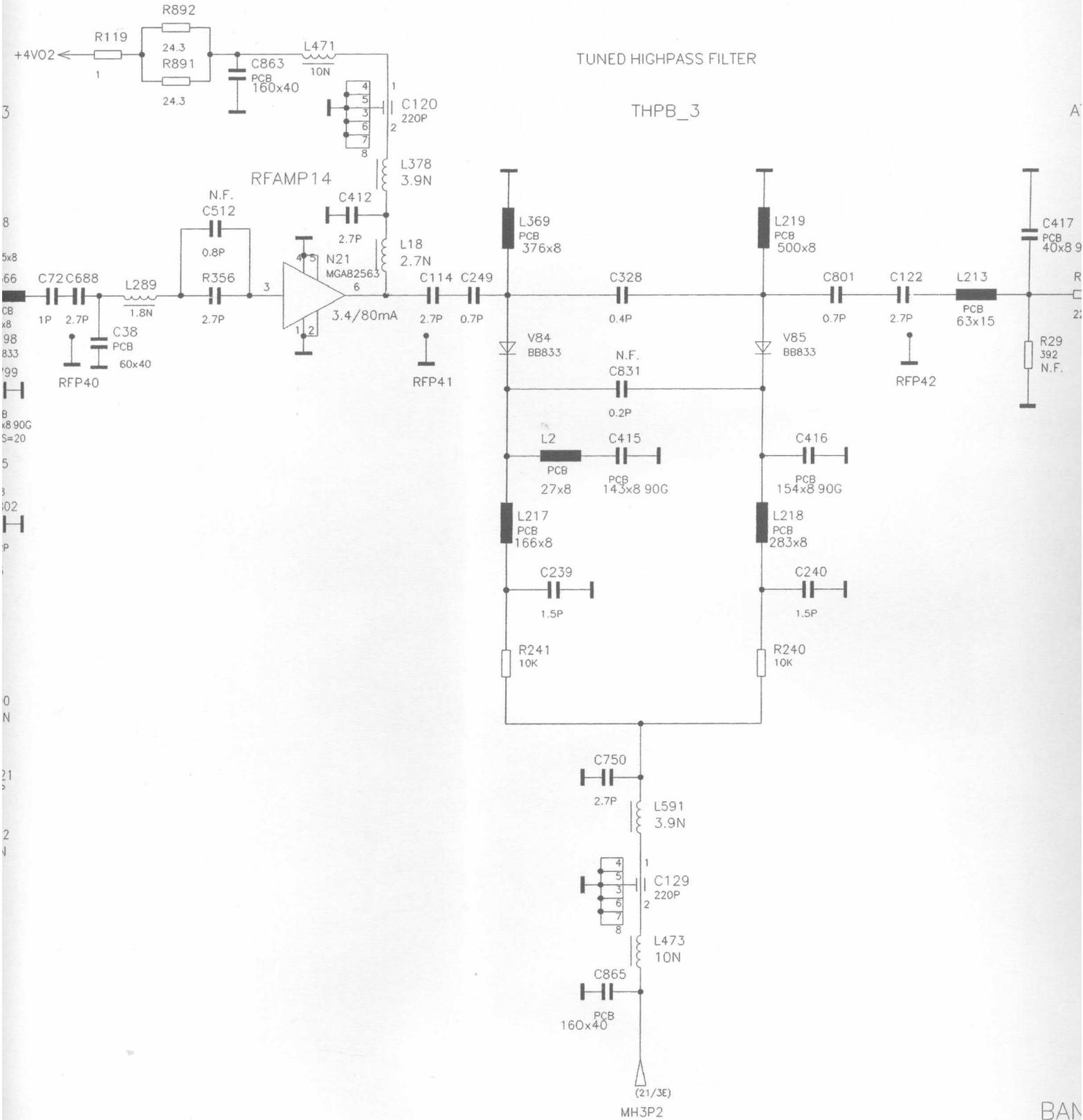
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RFP40

RFP41

RFP42



TUNED HIGHPASS FILTER

THPB_3

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

** = NOT FITTED

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

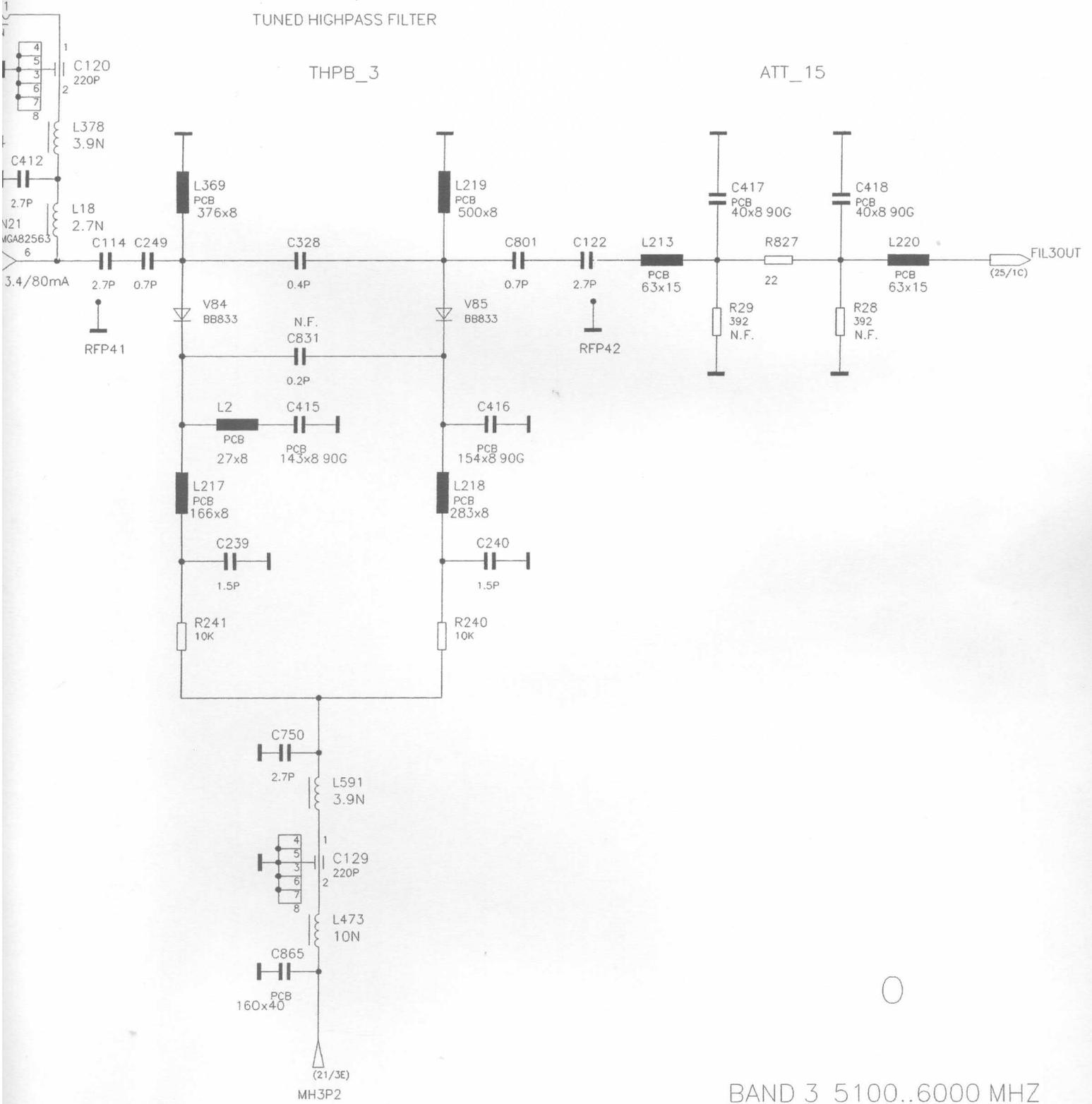
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Date: 99-09-09		Abteilung: 1GPK		Name: HOFE	
Designation: 6-GHZ-EXTENSION		Typ: SMIQ		Date: 99-09-09		Opt: 1GPK		Name: HOFE	
I. Z.: 1084.8004.01		used in:		Date: 99-09-09		Opt: 1GPK		Name: HOFE	

RFP41

RFP42

TUNED HIGHPASS FILTER



BAND 3 5100..6000 MHZ

Varianten,
siehe SA.

** = NOT FITTED

! ON MODELS.
ITS VALUES AND
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ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 22+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
I. Z.: used in: 1084.8004.01								TOP/BAND3_35/BAND3.2	

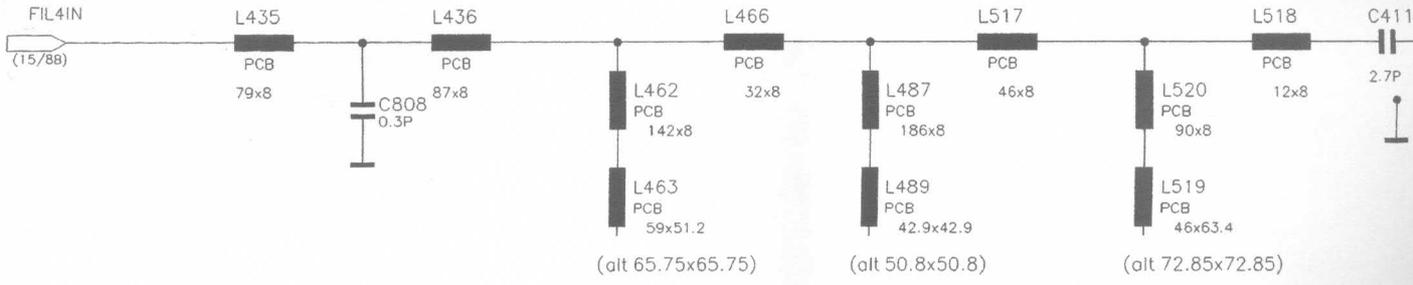
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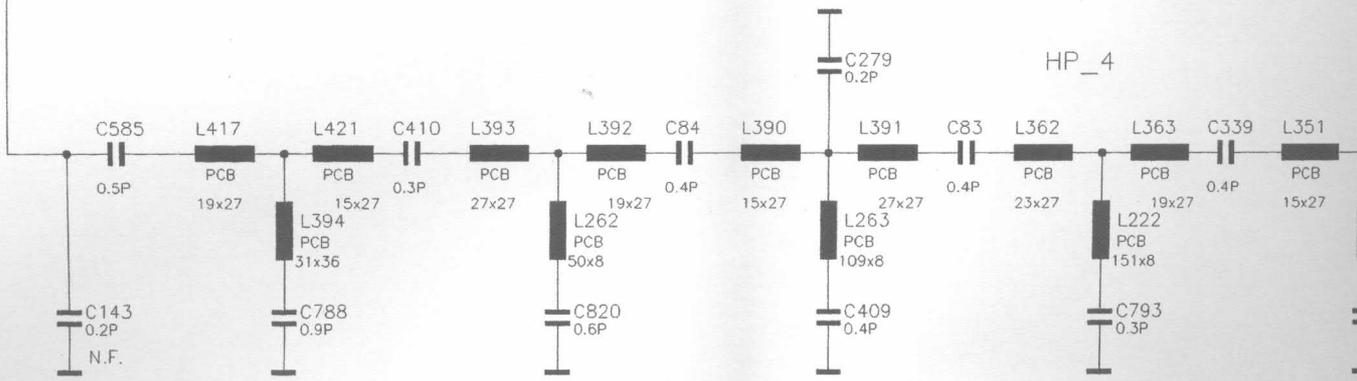
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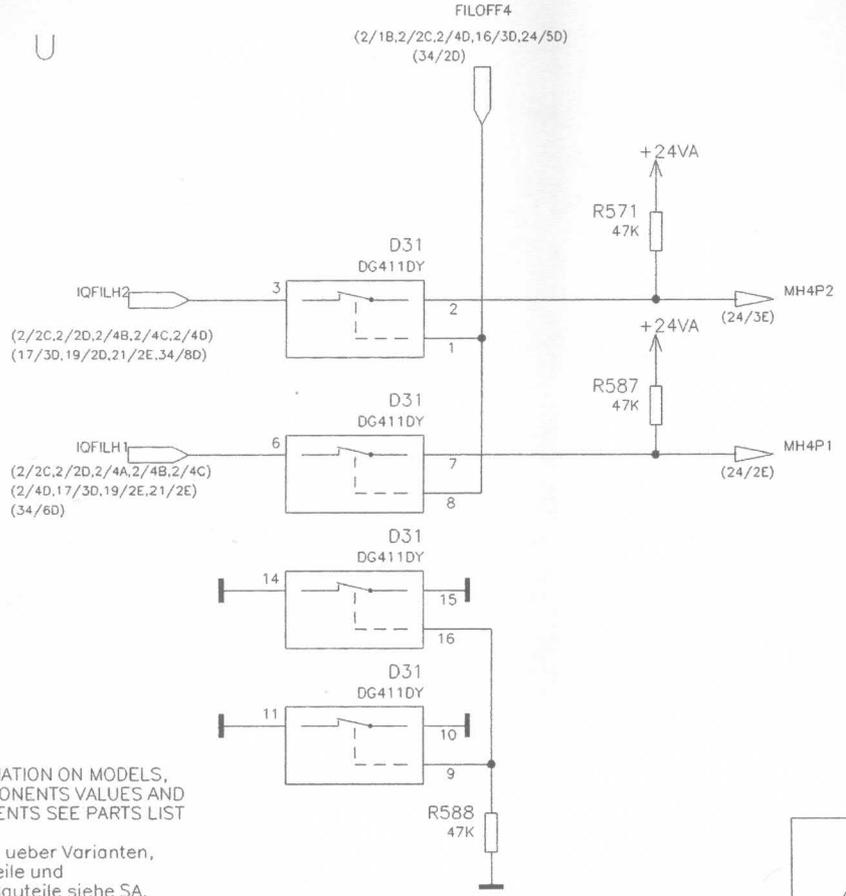
TP_4



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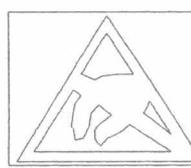


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FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

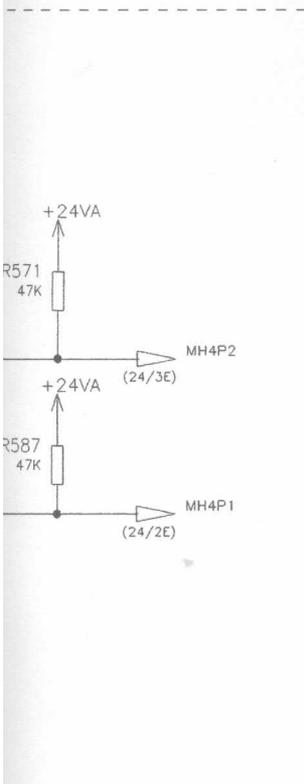
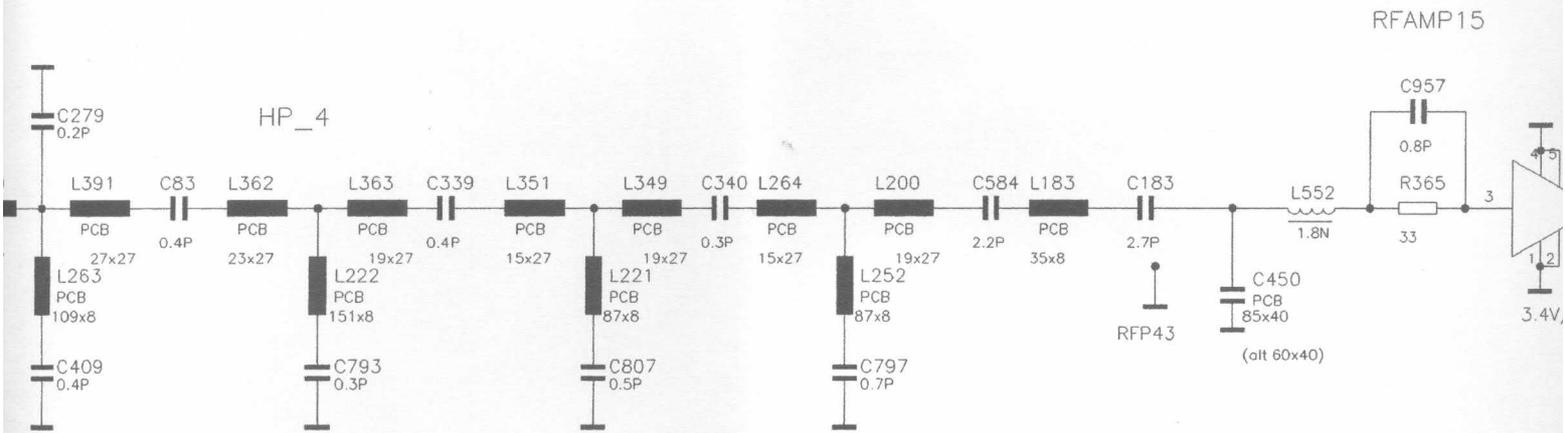
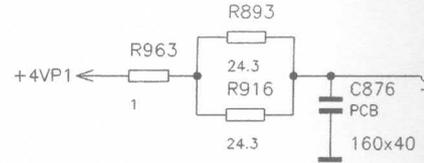
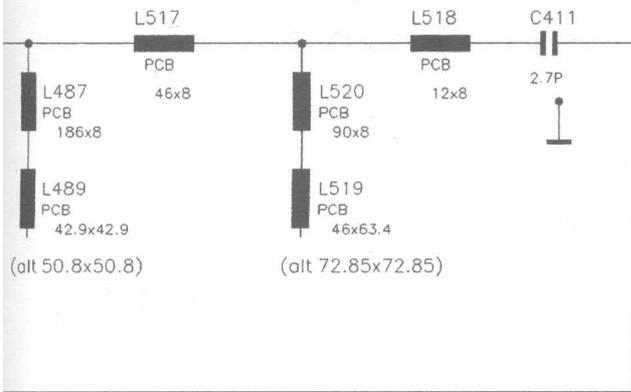
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.



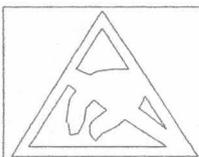
ACHTUNG: EGB
ELEKTROSTATISCH GEFÄHRD
BAUELEMENTE ERFORDERN
BESONDERE HANDHABUNG
ATTENTION ESD
ELECTROSTATIC SENSITIVE DEVI
REQUIRE A SPECIAL HANDLIN

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RFP43



** = NOT FITTED

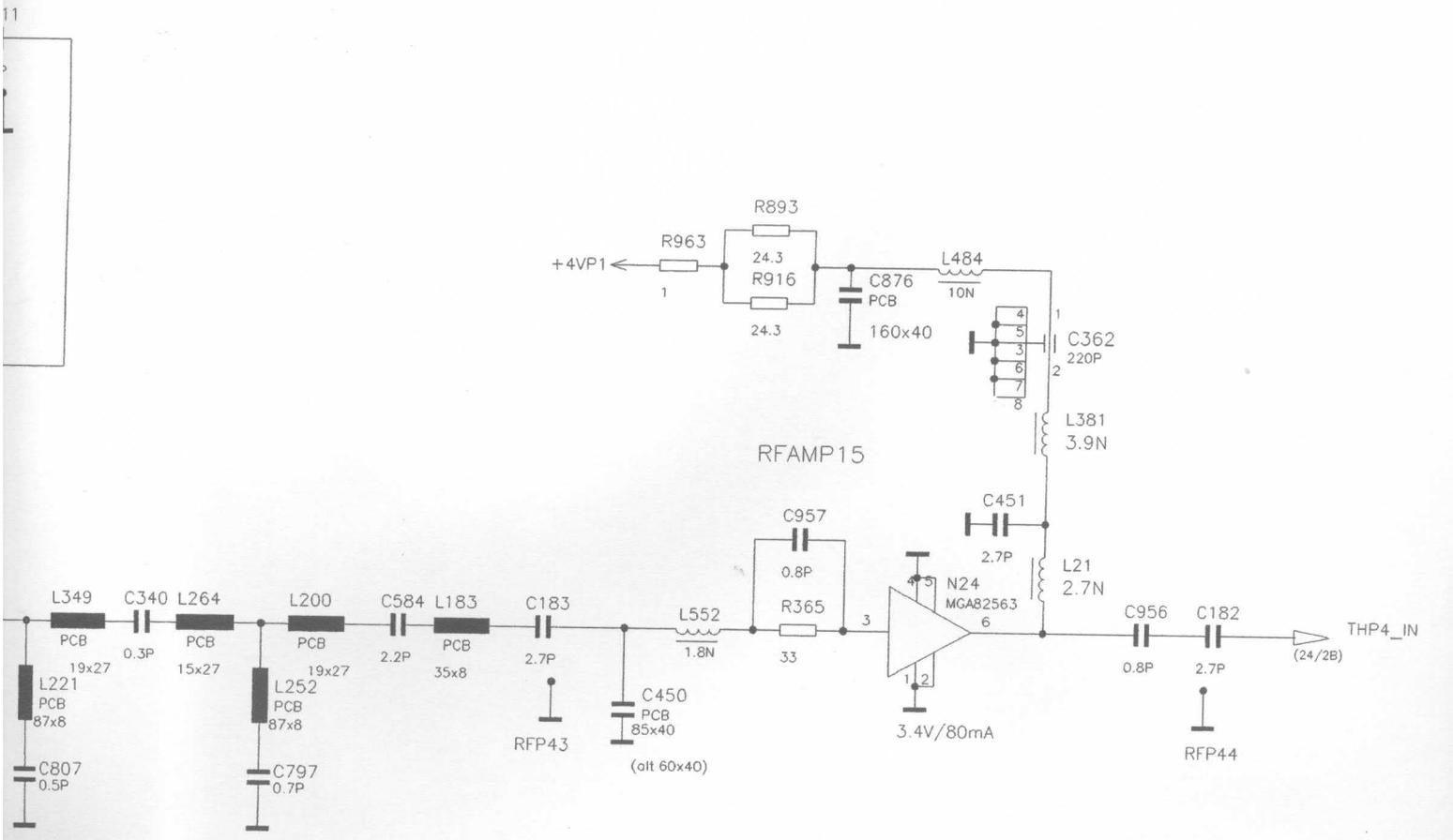


ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: Type: SMIQ	Datum: Date: 99-09-09	Abteilung: Dpt: 1GPK	Name: Name:
I. Z.: used in: 1084.8004.01			

RFP43

RFP44



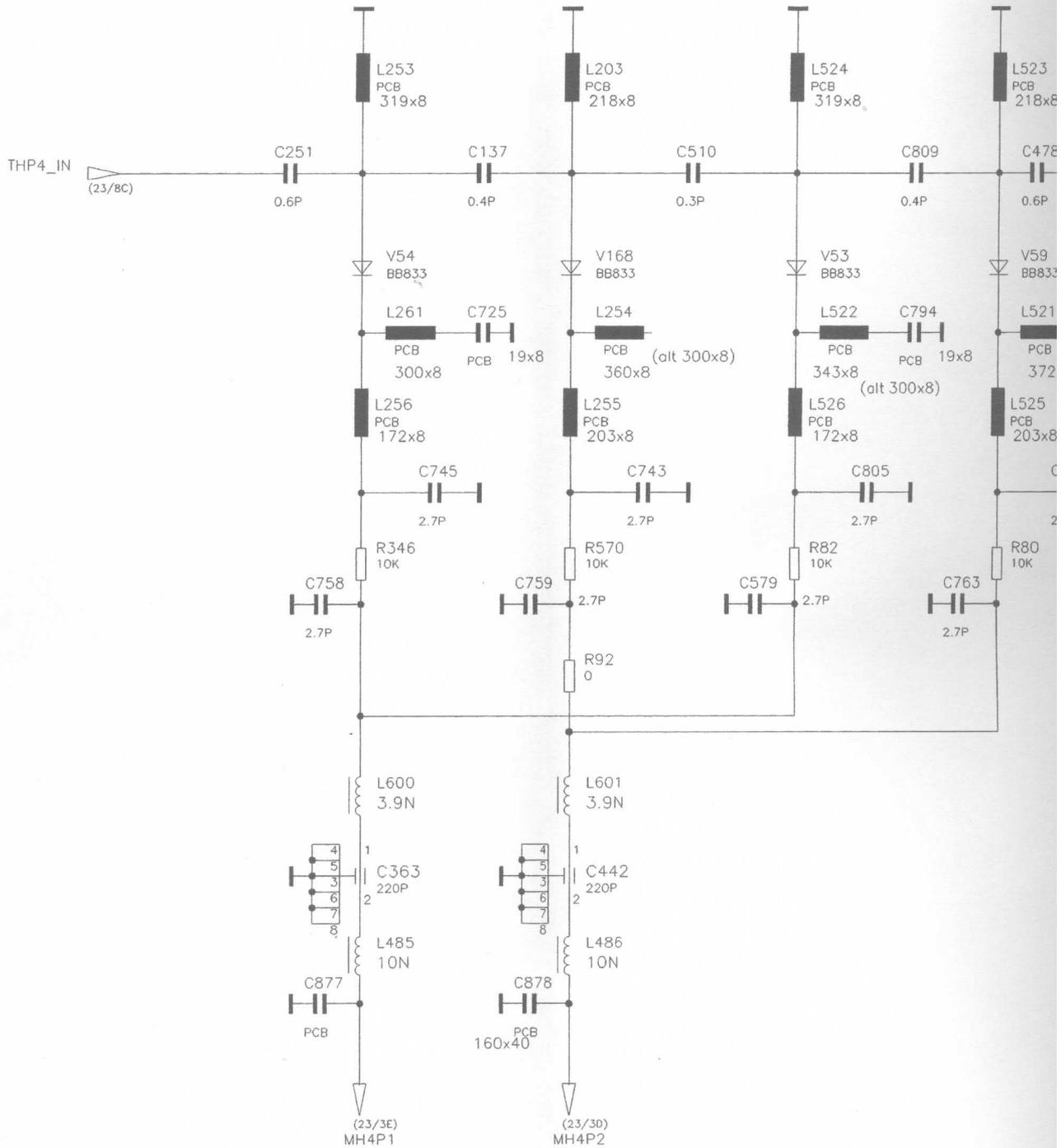
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Typ: SMIQ used in: 1084.8004.01		Datum: 99-09-09 Dpt: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
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THP_4



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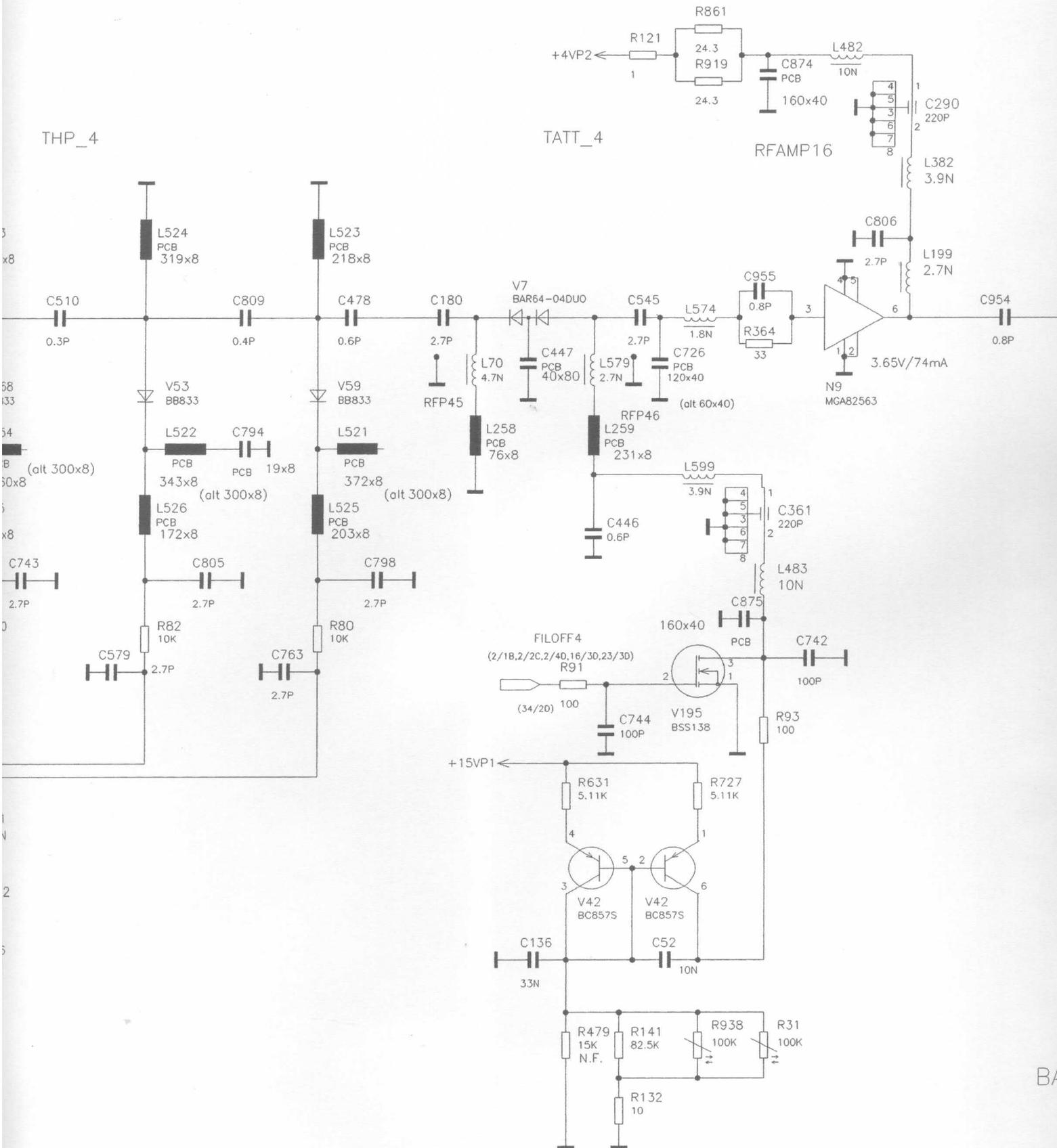
 ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDhabUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

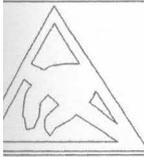
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RFP46

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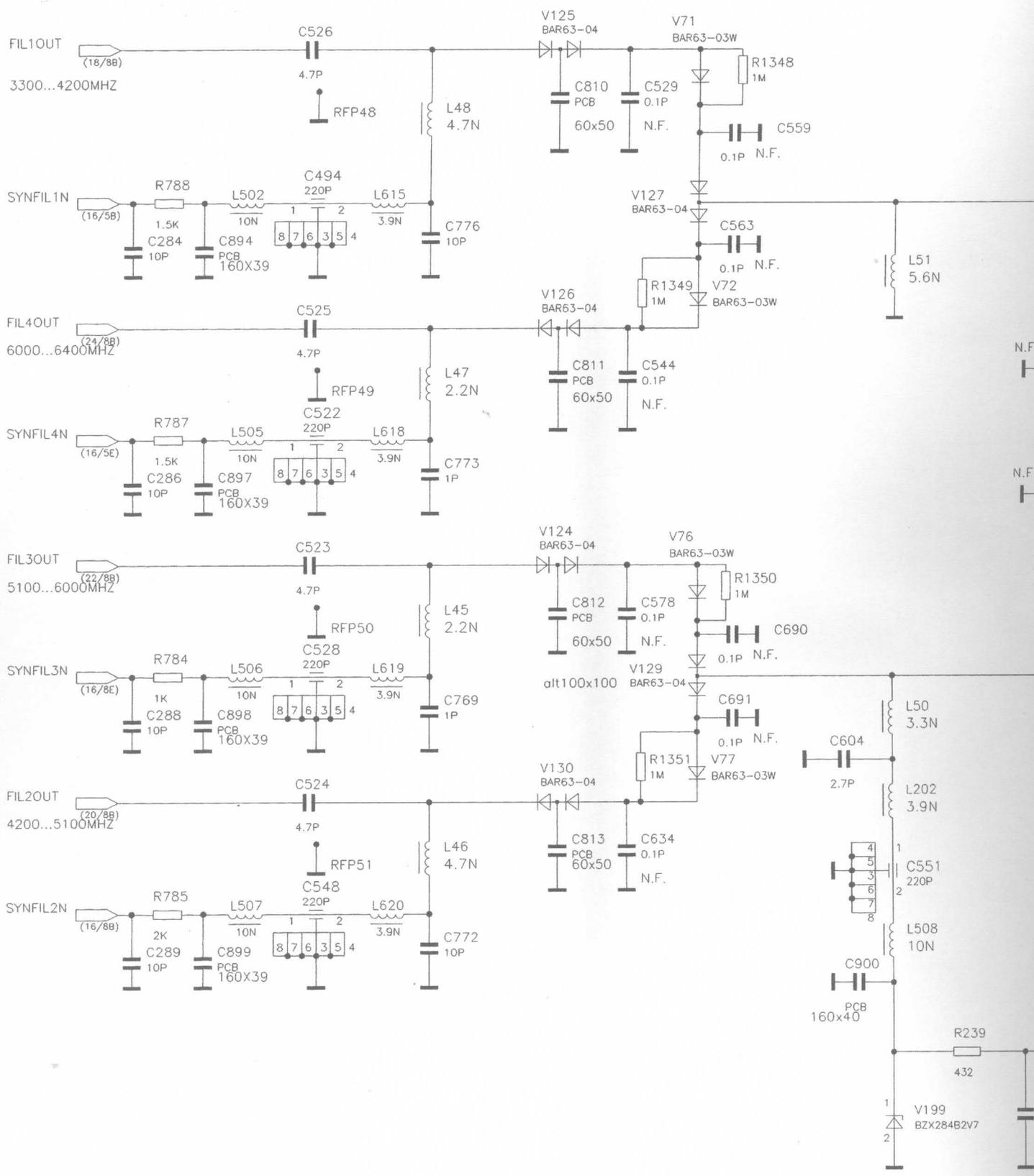



ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
		Typ: SMIQ	Datum: 99-09-09
I. Z.: 1084.8004.01			

RFP48 ● RFP50
RFP49 RFP51

RFSWITCH2

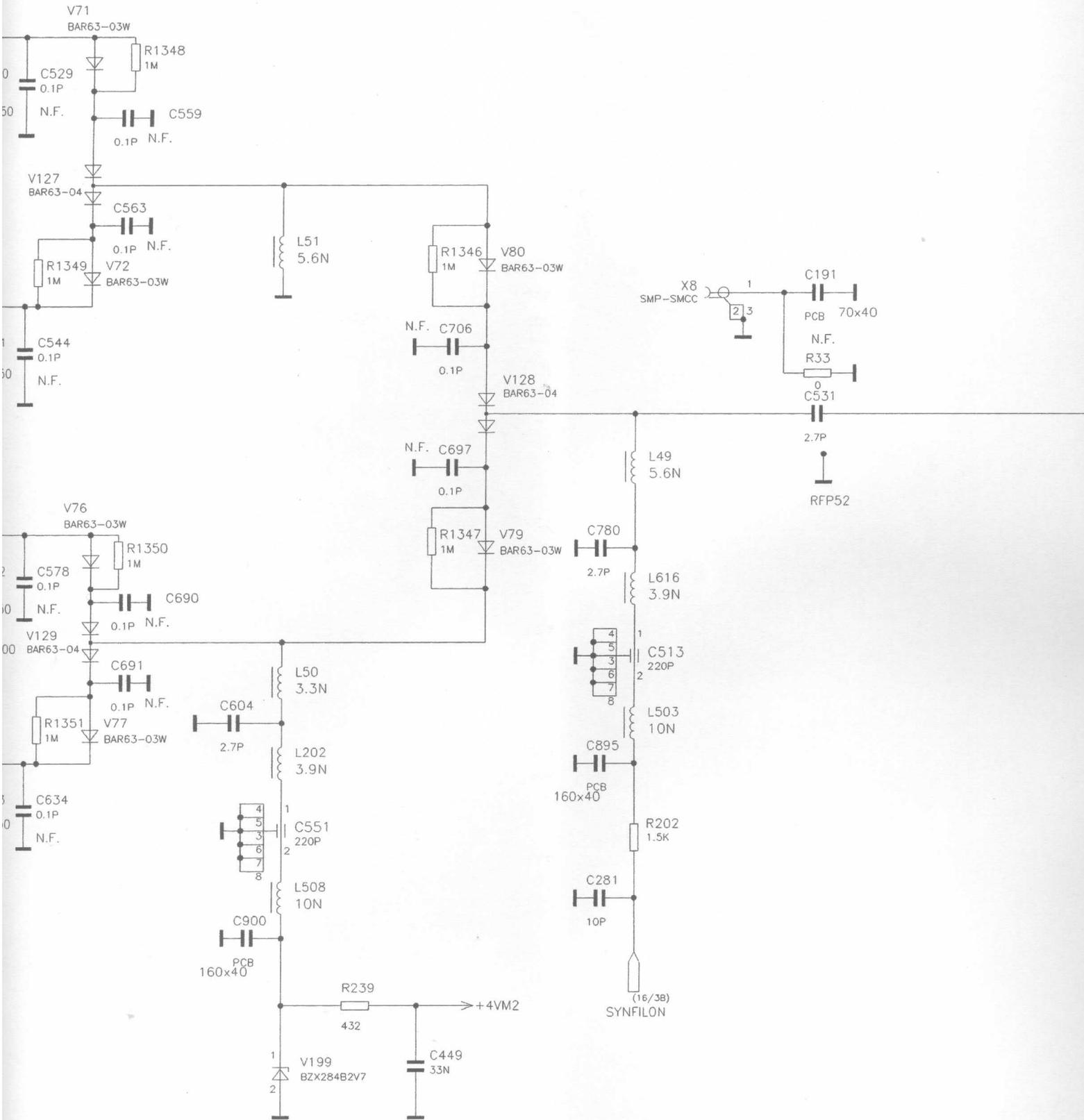


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Bindende Angaben ueber Varianten,
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FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST

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



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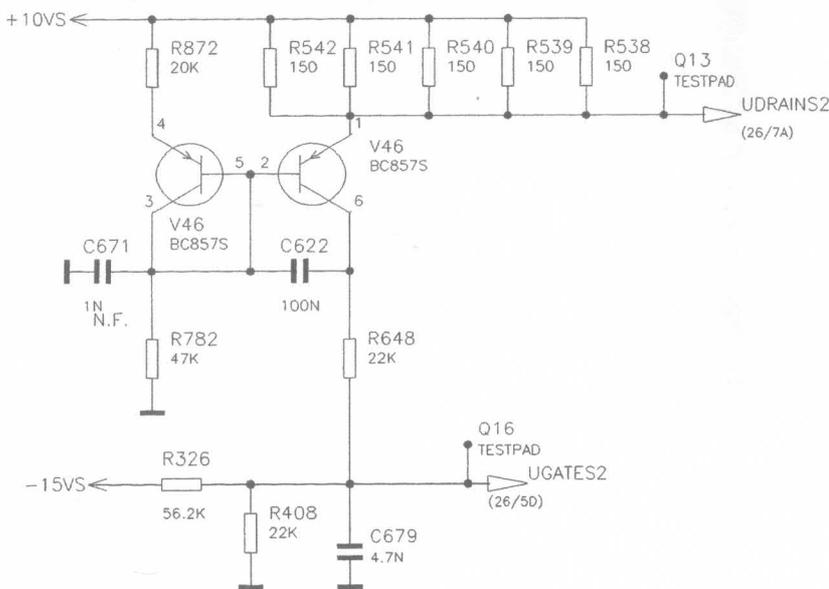
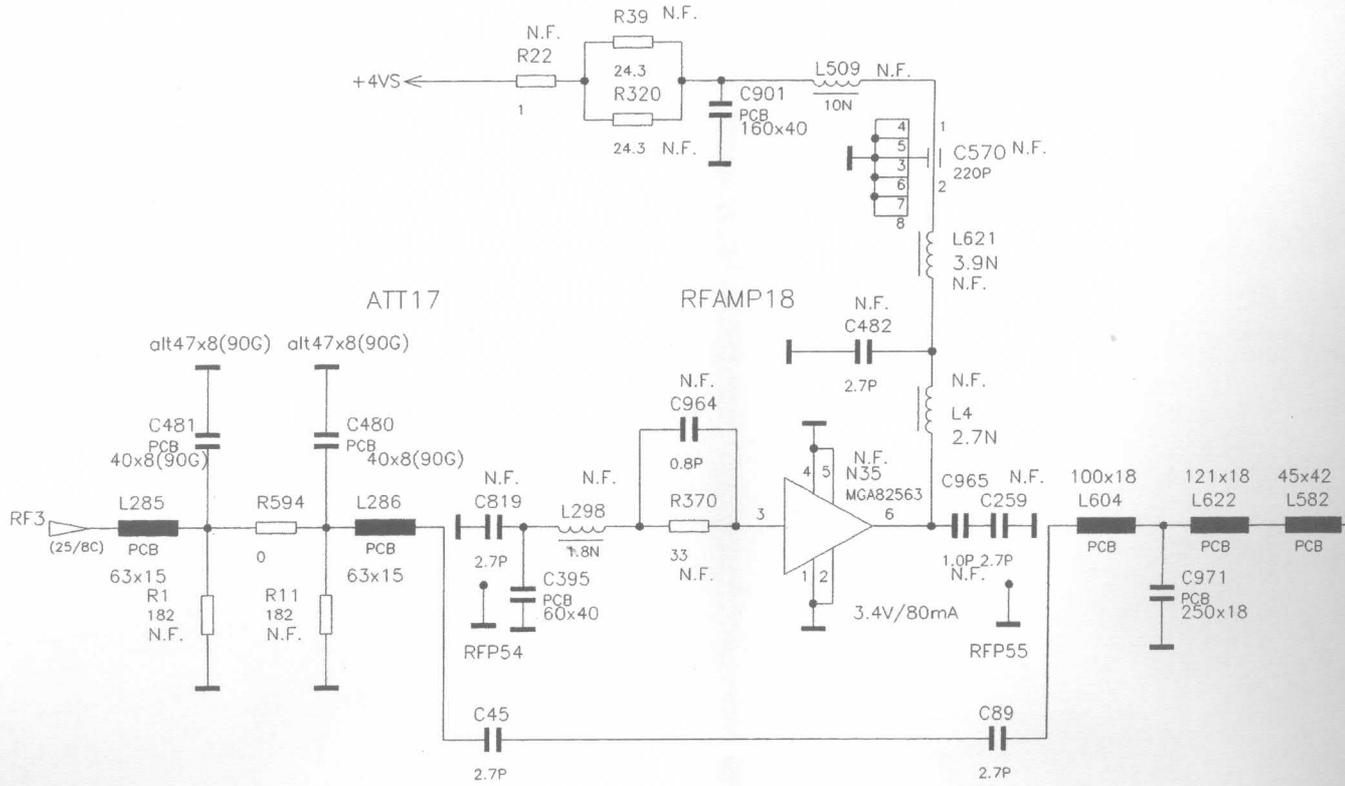
ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: Type: SMIQ	Datum: Date: 99-09-09	Abteilung: Dpt: 1GPK	Nam Nam
1. Z.: used in: 1084.8004.01		TOP/RF-PREAMPLIFIER_AM-MODULATOR_56/RF-PR	

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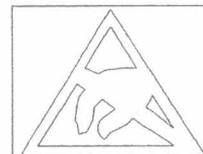
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RFP55



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FOR BINDING INFORMATION ON TRIMMING AND COMPONENTS V NONFITTED COMPONENTS SEE



ACHTUNG: EGB ! ELEKTROSTATISCH GEFAEHRDET BAUELEMENTE ERFORDERN EIN BESONDERE HANDHABUNG ATTENTION ESD ! ELECTROSTATIC SENSITIVE DEVICE REQUIRE A SPECIAL HANDLING

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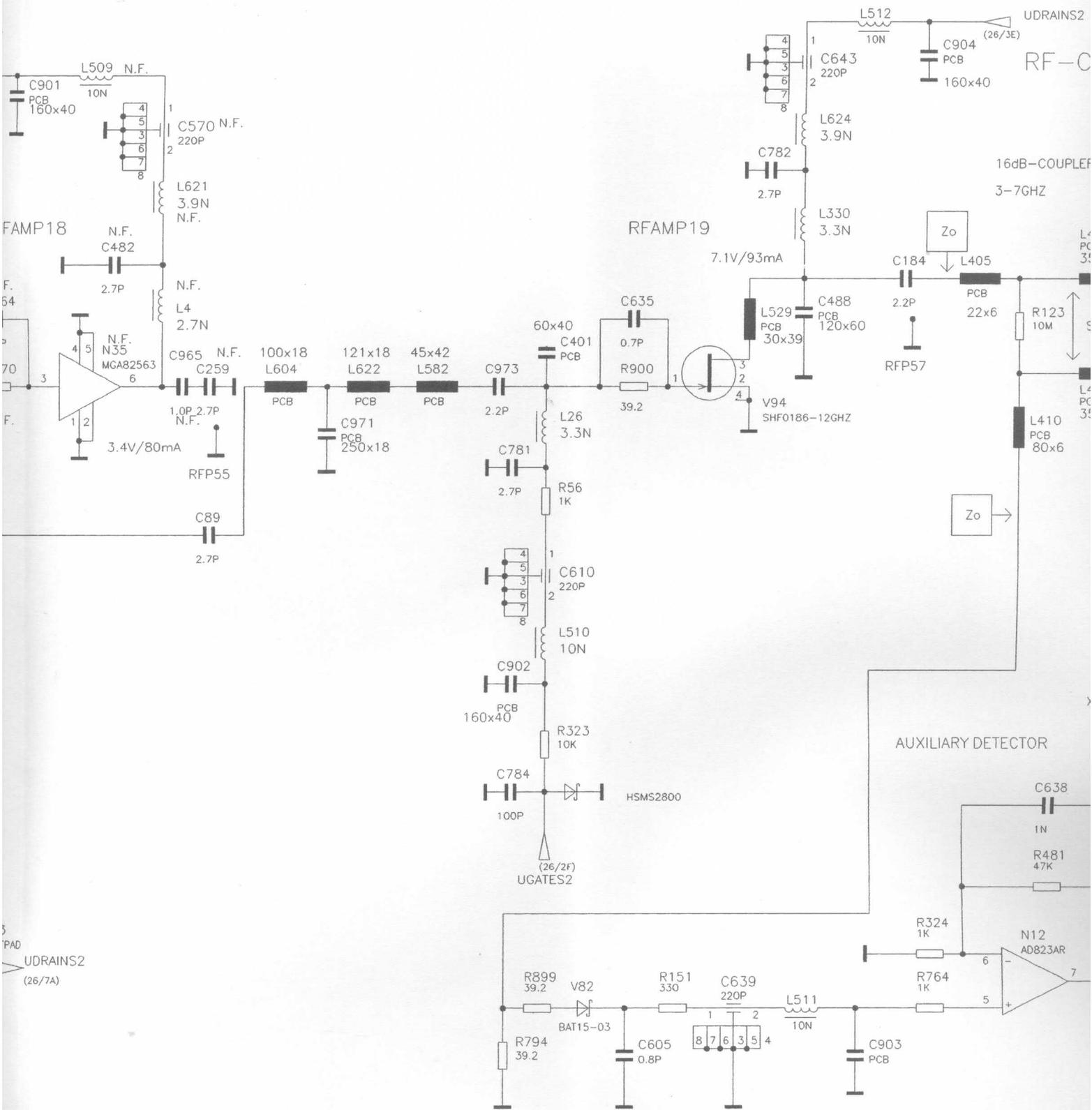
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Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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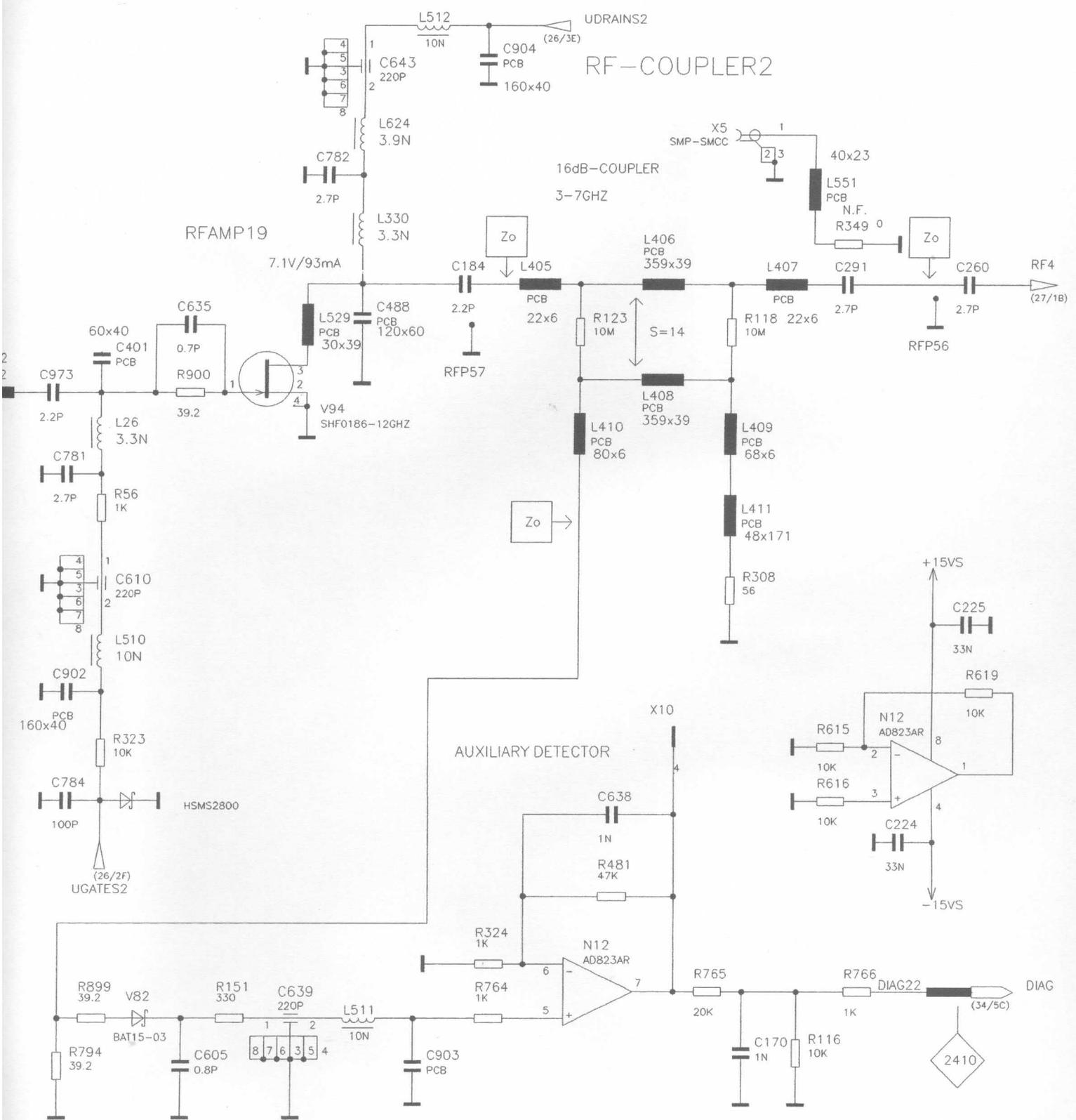
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	
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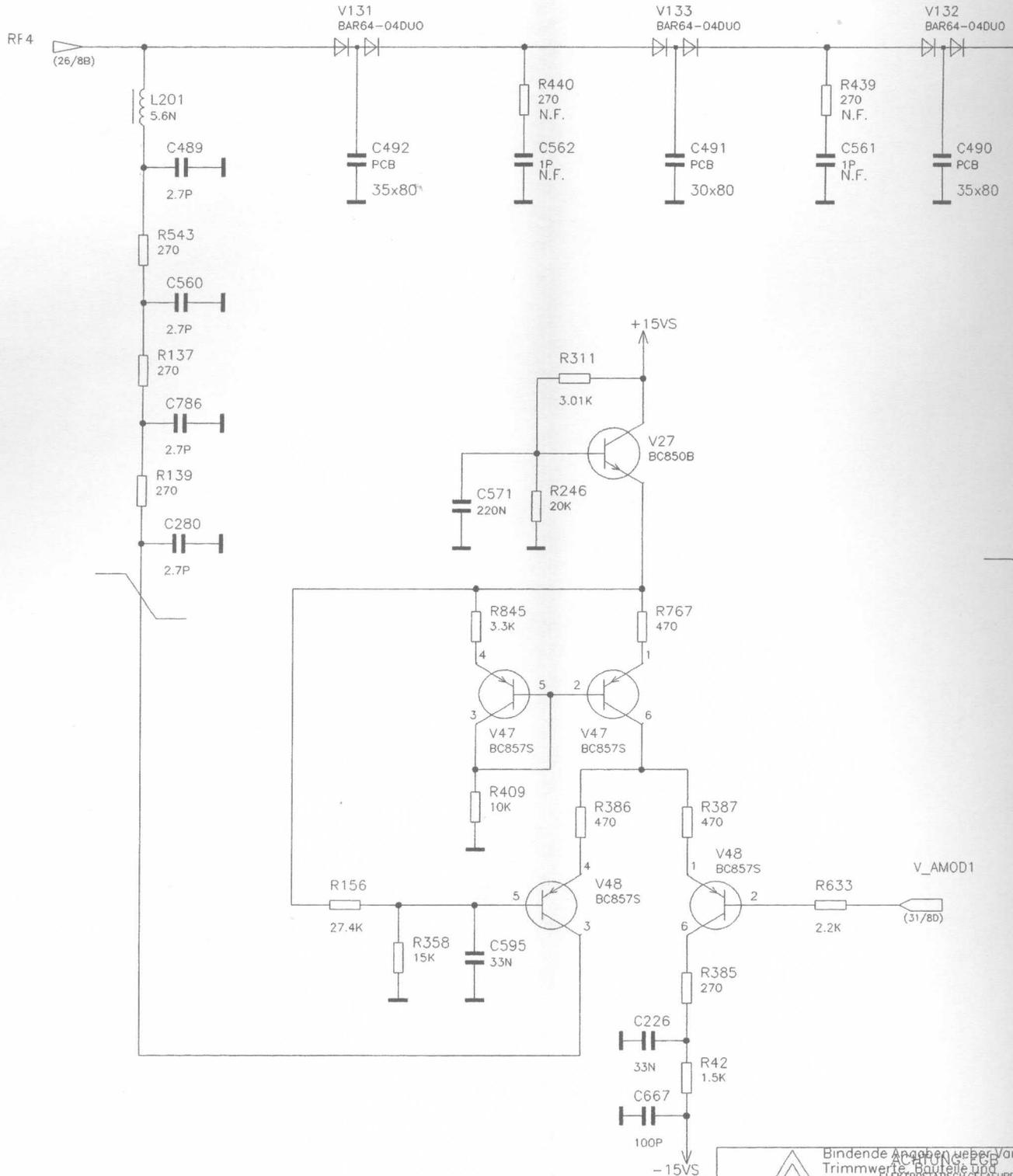


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Rohde & Schwarz			Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	

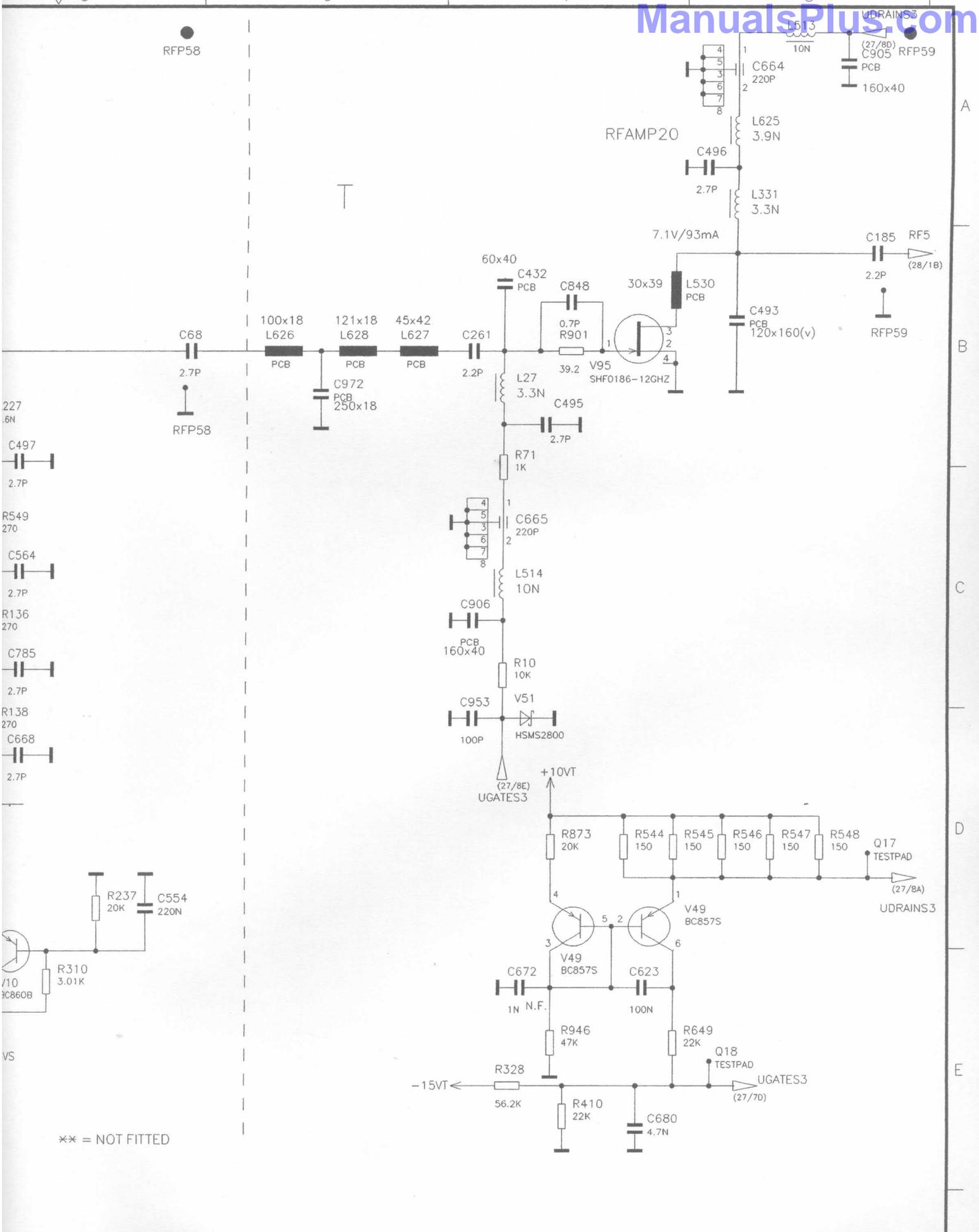
AM-MODULATOR_1



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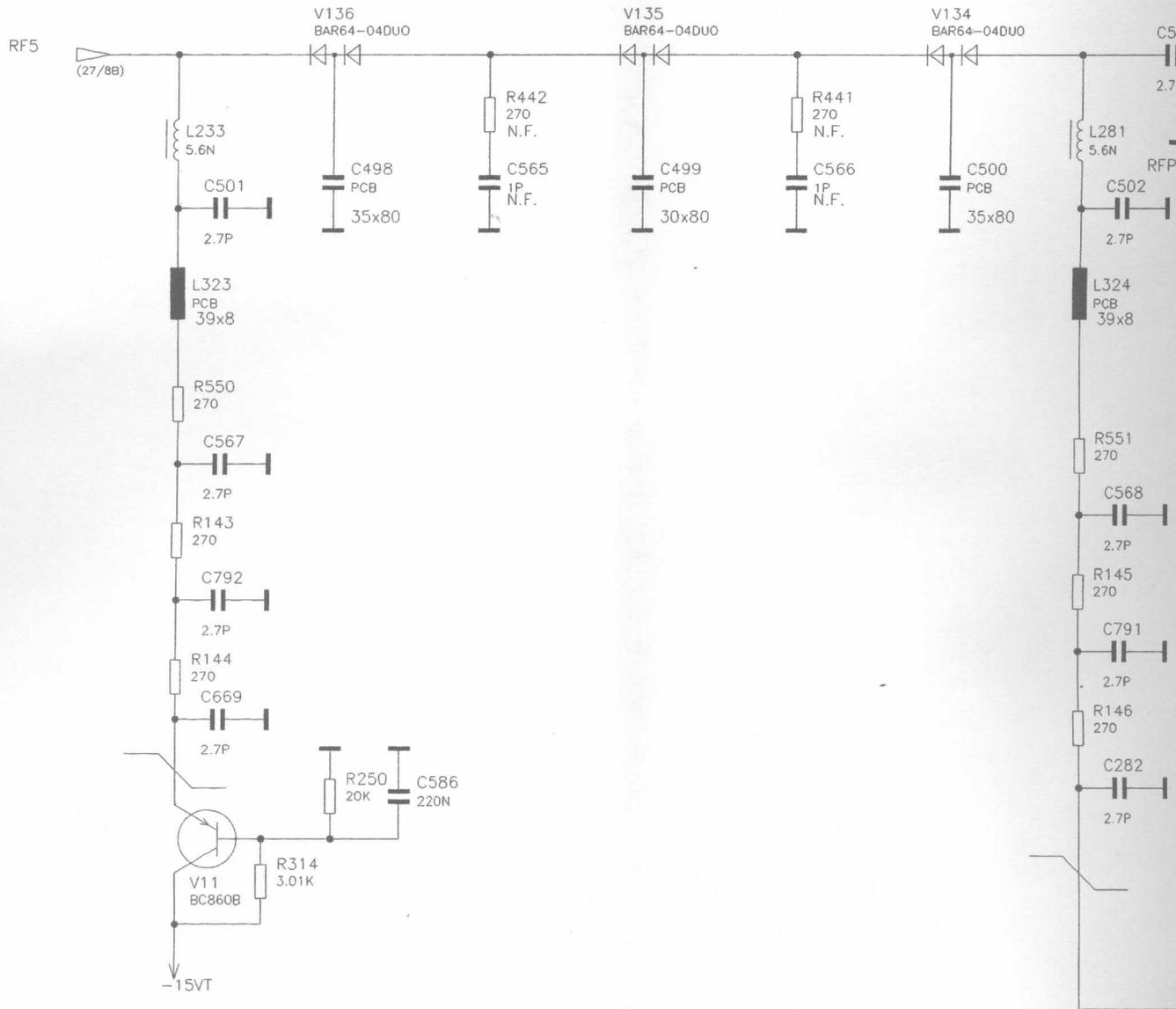
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 NON-FITTED COMPONENTS SEE
 REQUIRE A SPECIAL HANDLING



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	I. Z.: 1084.8004.01		TOP/RF-PREAMPLIFIER_AM-MODULATOR_56/RF-PREAMPLIFIER_AM-MODULATOR.3		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S			

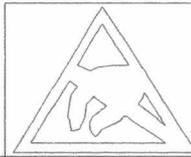
AM-MODULATOR_2



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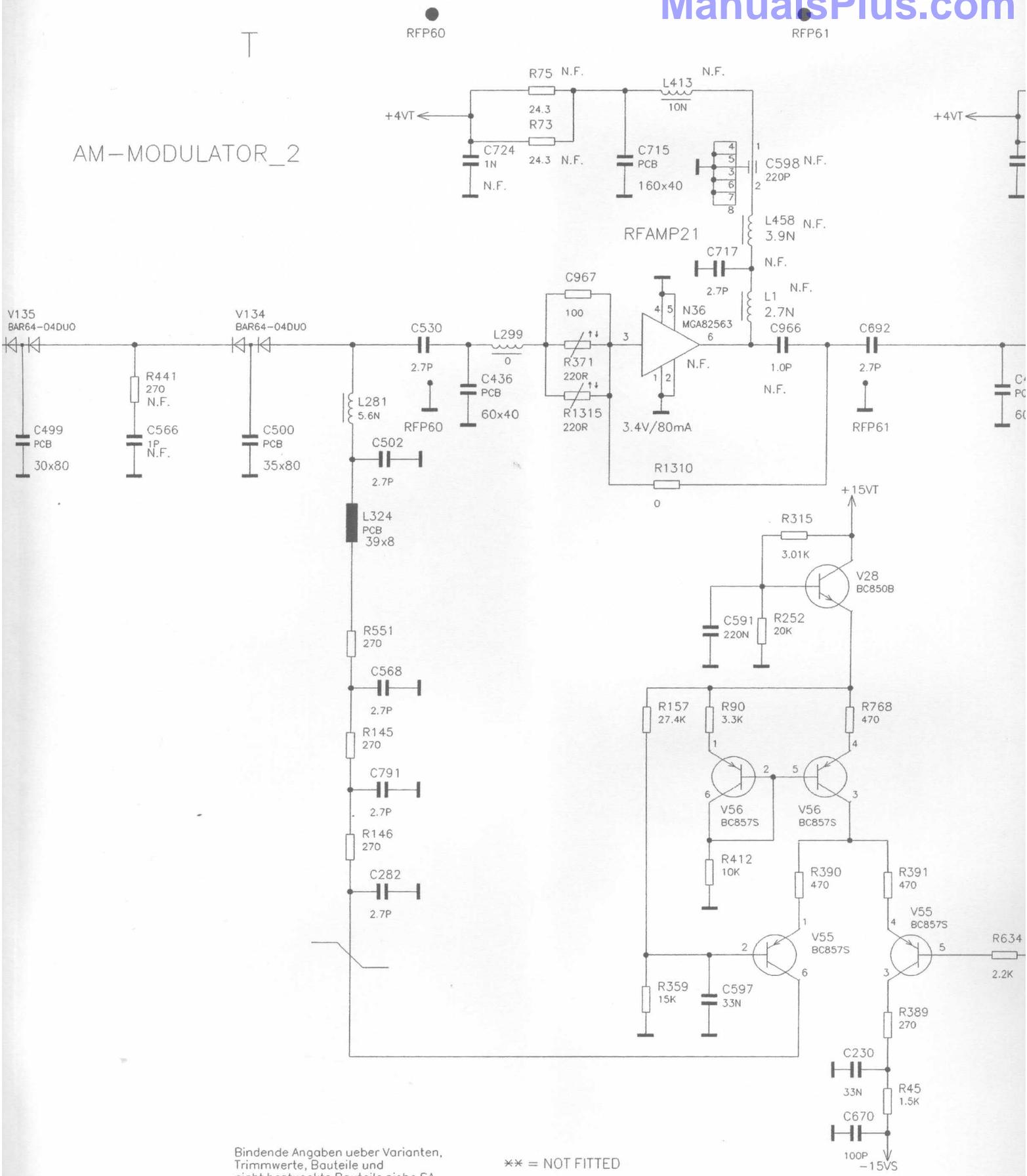
Bindende Angaben ueber Variante
Trimmwerte, Bauteile und
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ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

AM-MODULATOR_2



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

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

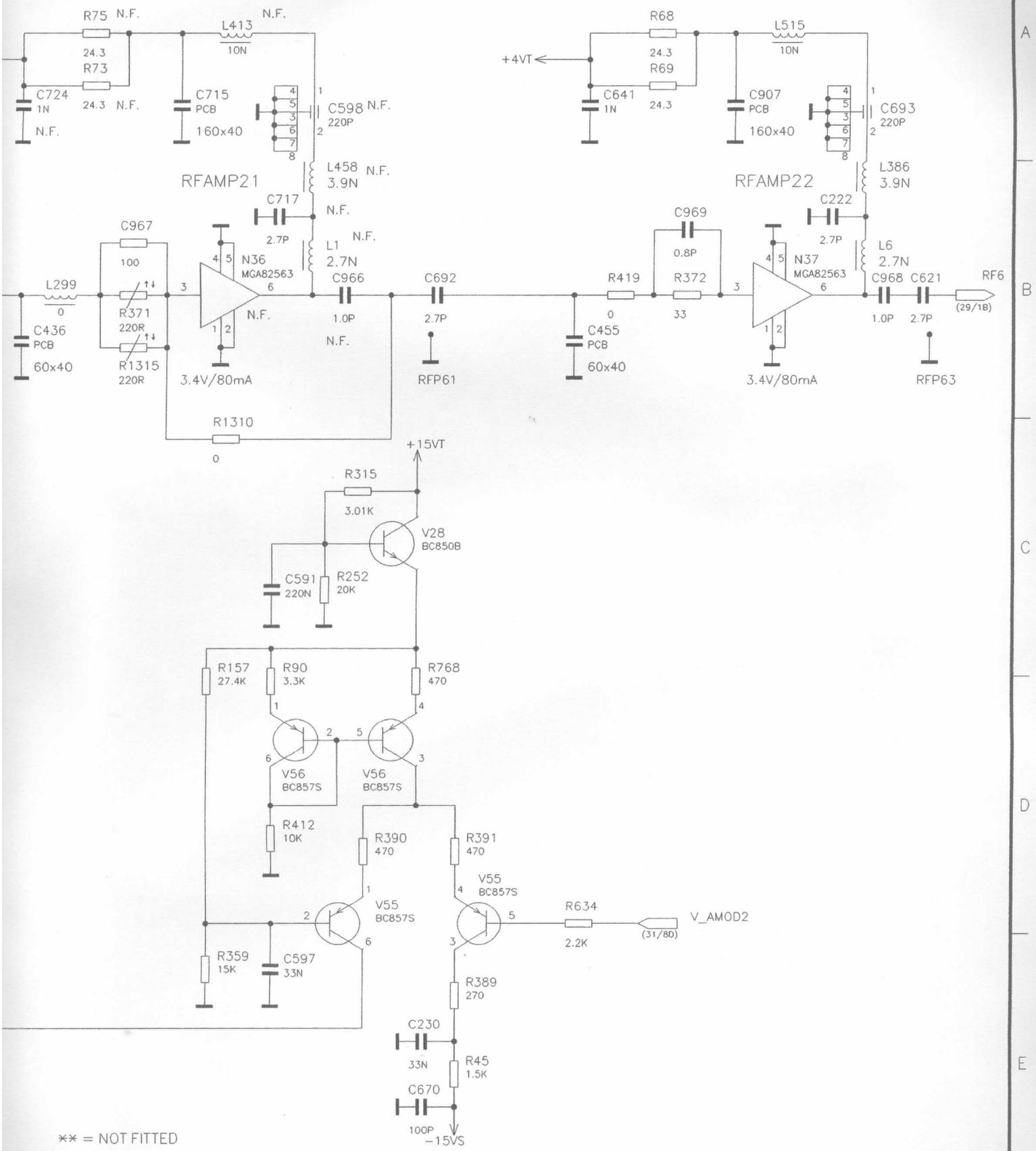


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG	
		Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	
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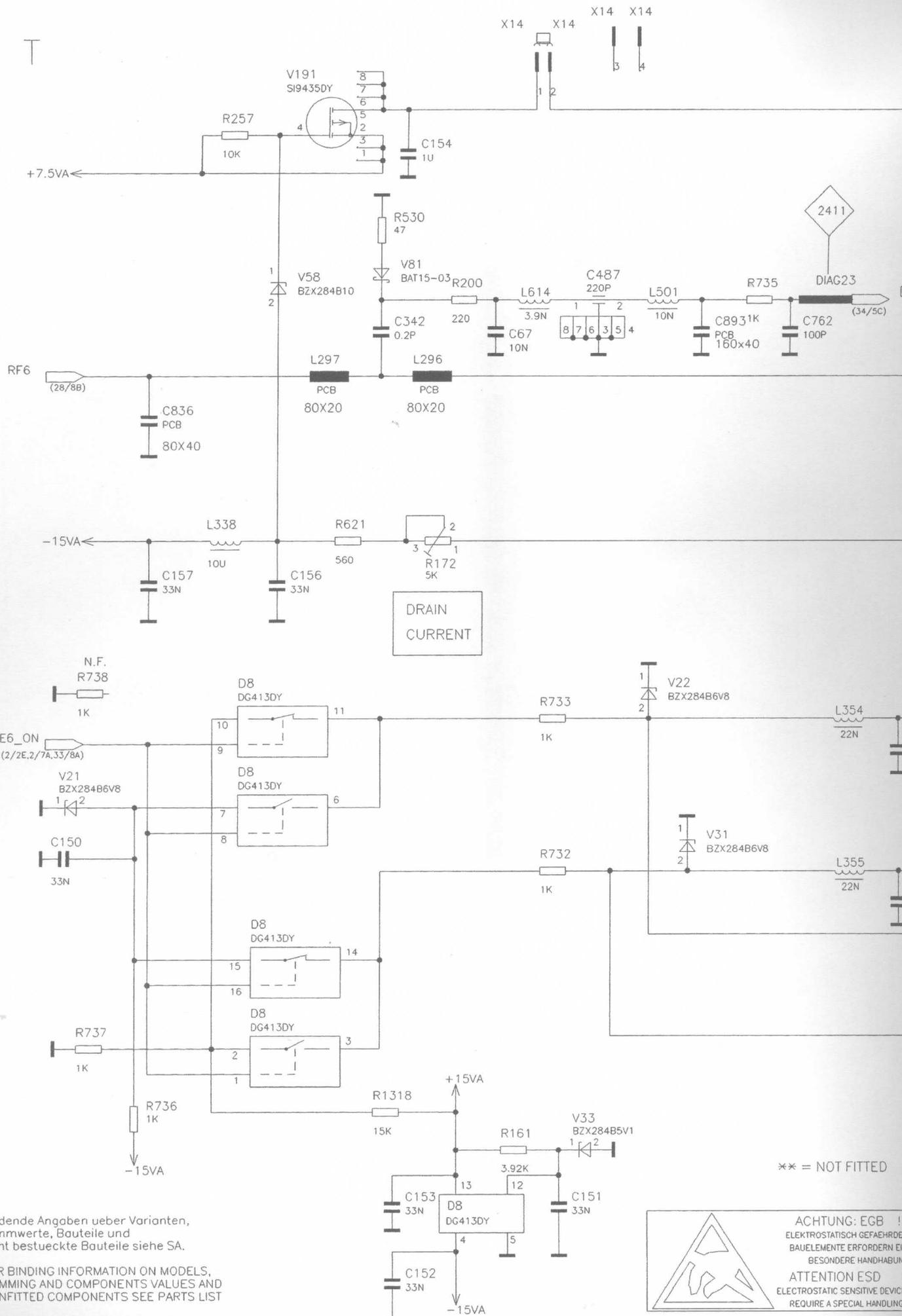


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Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
1. Z.: used in: 1084.8004.01		TOP/RF-PREAMPLIFIER_AM-MODULATOR_56/RF-PREAMPLIFIER_AM-MODULATOR.4							

P9 P8 R172



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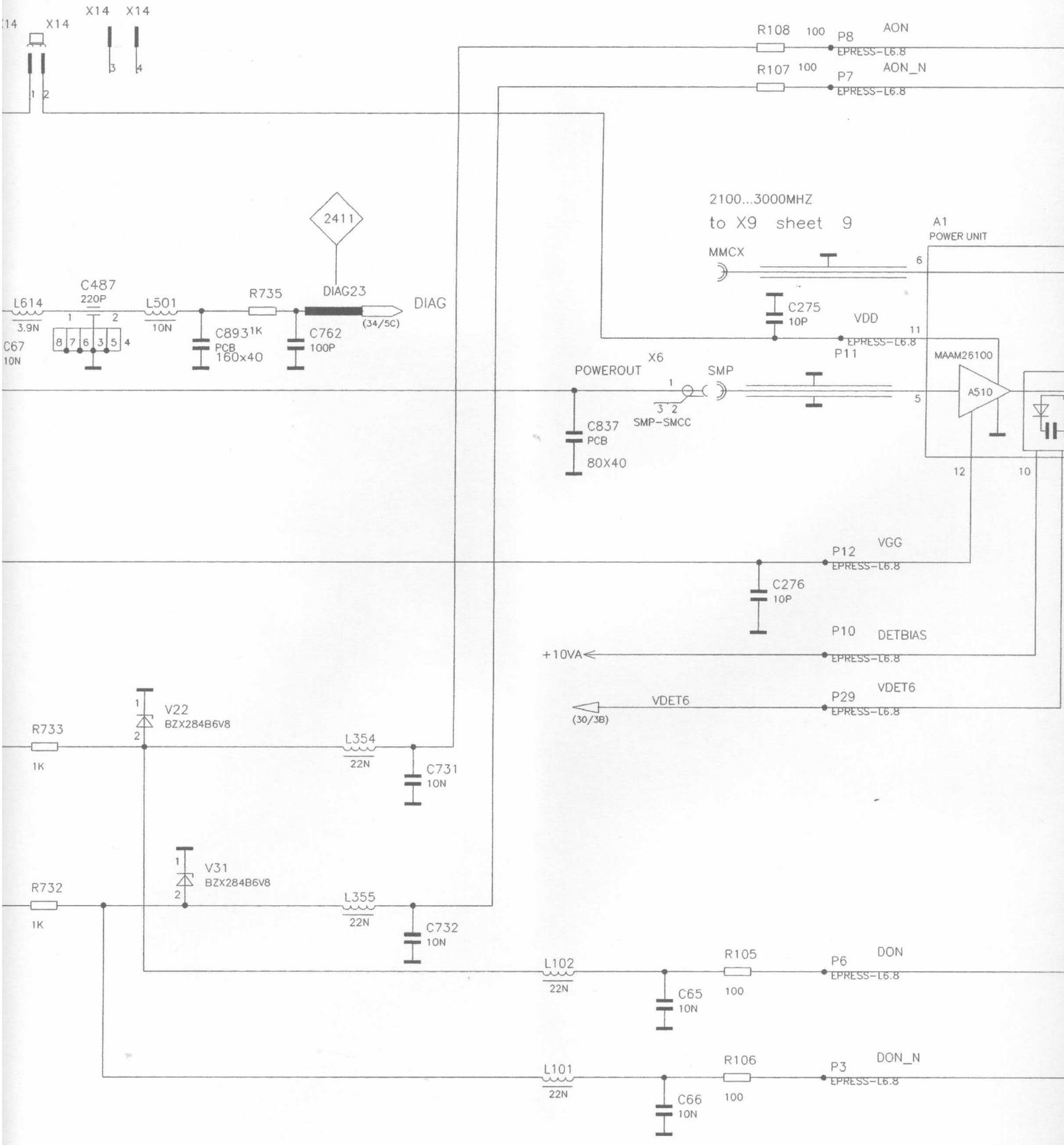
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FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

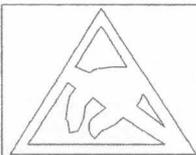
ACHTUNG: EGB ! ELEKTROSTATISCH GEFAEHRDE BAUELEMENTE ERFORDERN EIN BESONDERE HANDHABUNG

ATTENTION ESD ! ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

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

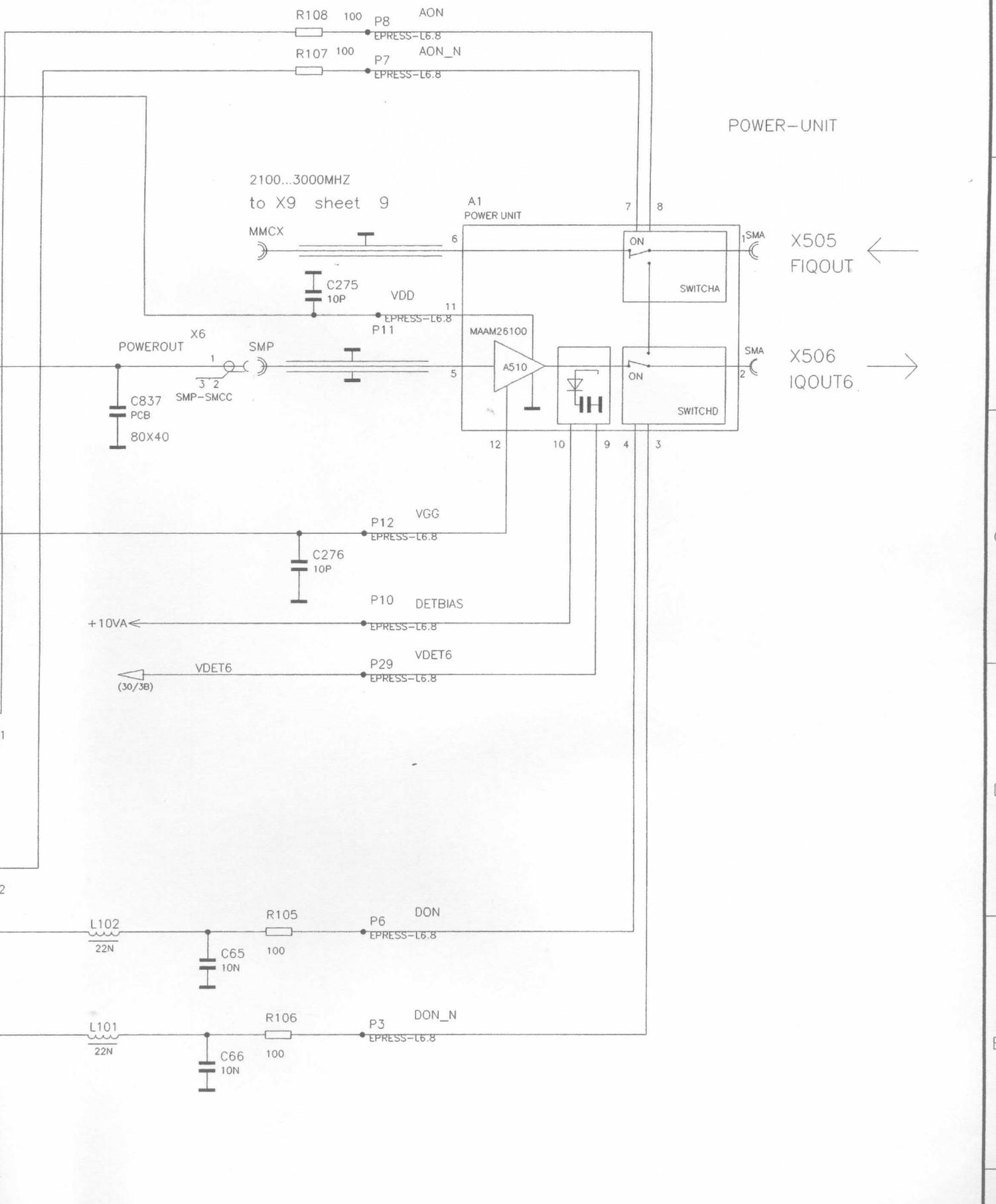
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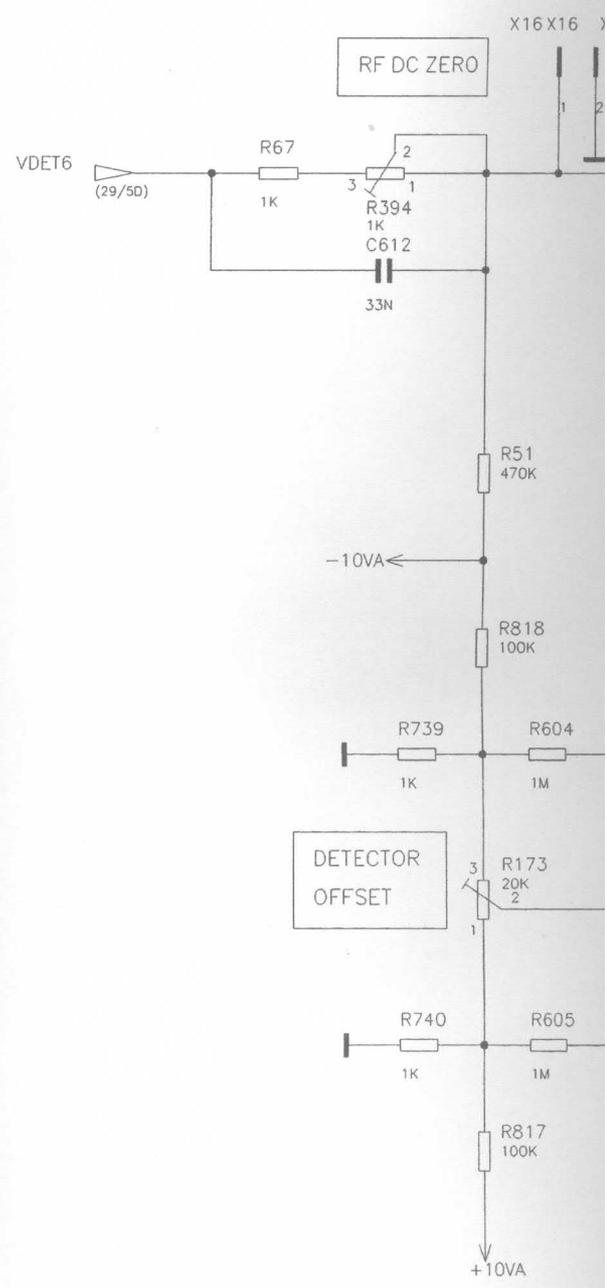
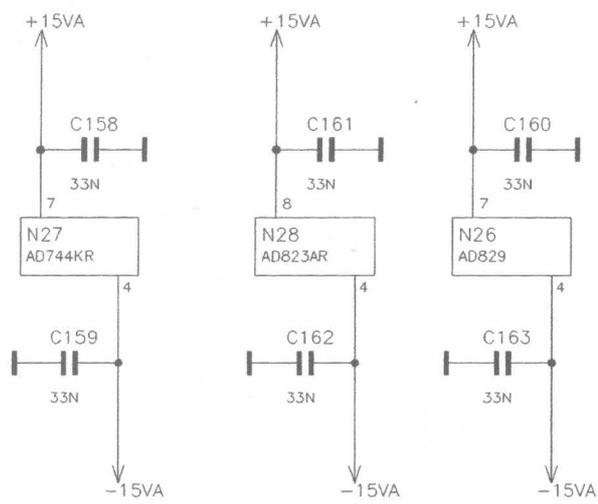
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Typ: SMIQ		Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE	Zeichn. Nr.: / Drawing No.: 1084.9600.01 S			
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FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS
NONFITTED COMPONENTS SEE

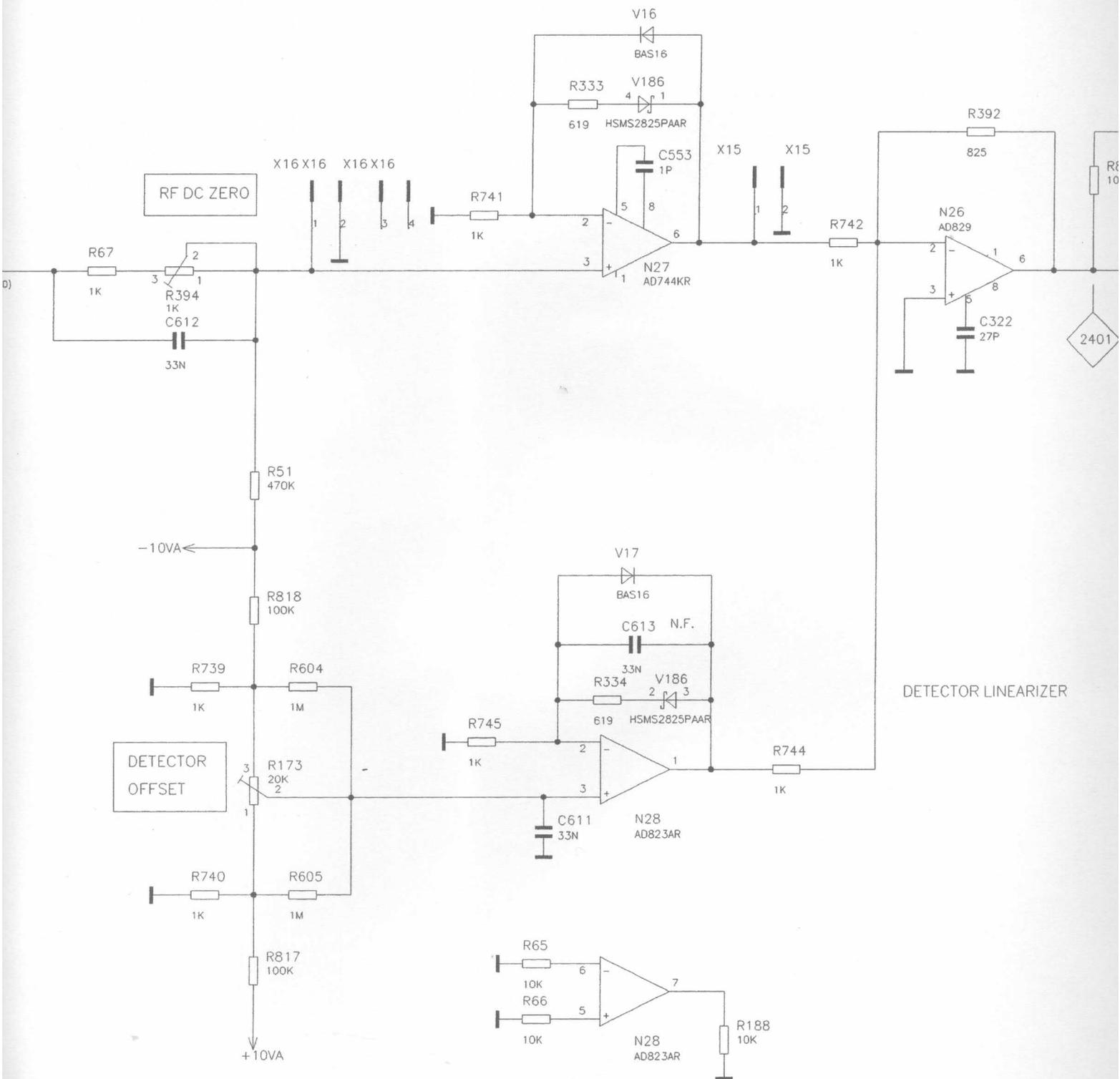


ACHTUNG: EGB !
 ELEKTROSTATISCH GEFÄHRDE
 BAUELEMENTE ERFORDERN EIN
 BESONDERE HANDHABUN
 ATTENTION ESD !
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

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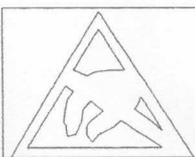
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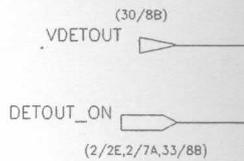
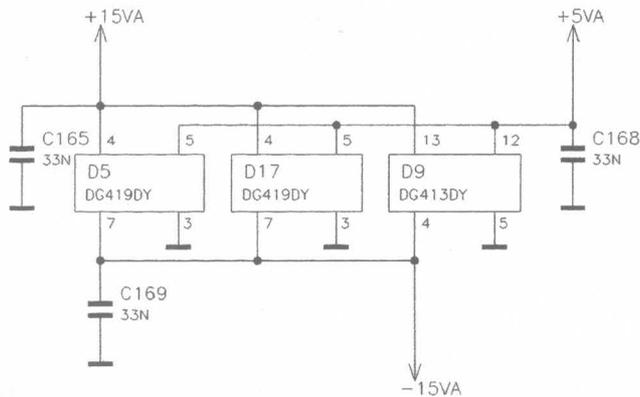
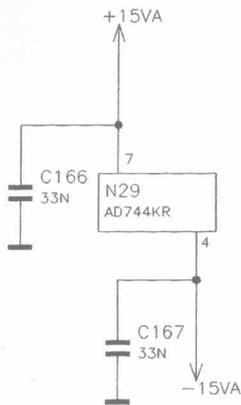
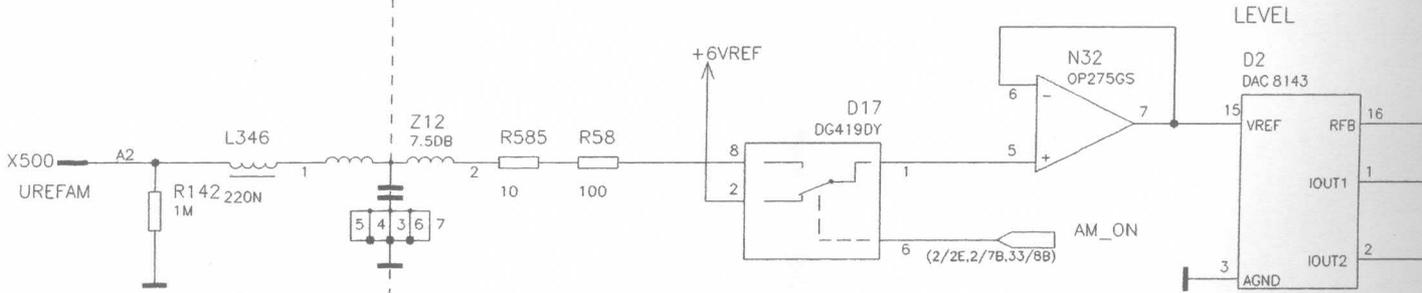


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BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
Typ: Type: SMIQ	Datum: Date: 99-09-09	Abteilung: Opt: 1GPK	Name: Name: HOFBER
1. Z.: used in: 1084.8004.01	TOP/OUTPUT_5		

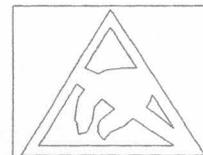
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Bindende Angaben ueber Vari-
Trimmwerte, Bauteile und
nicht bestueckte Bauteile sieh

FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS V
NONFITTED COMPONENTS SEE

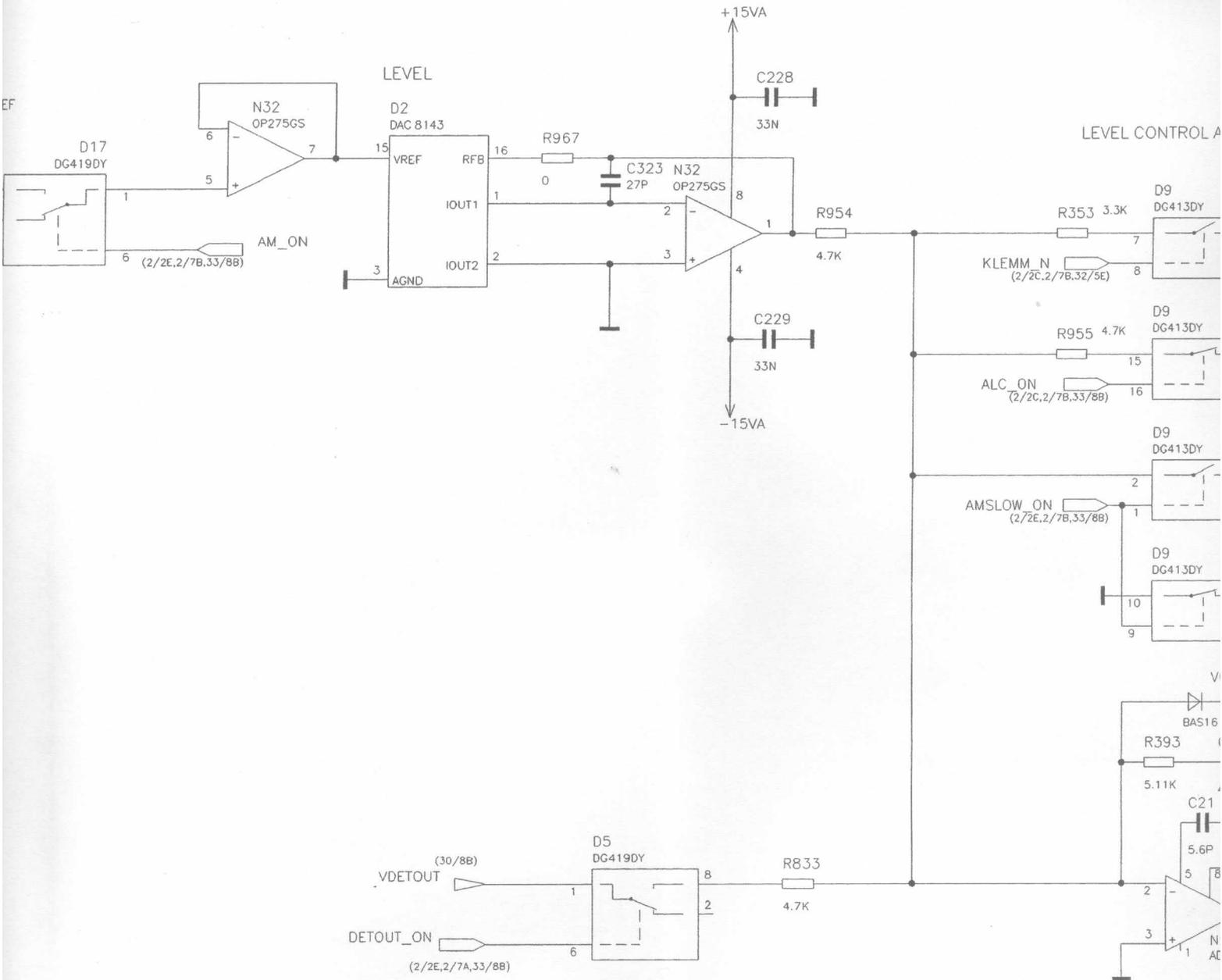


ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDET
BAUELEMENTE ERFORDERN EIN
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICE
REQUIRE A SPECIAL HANDLING

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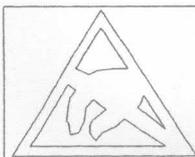
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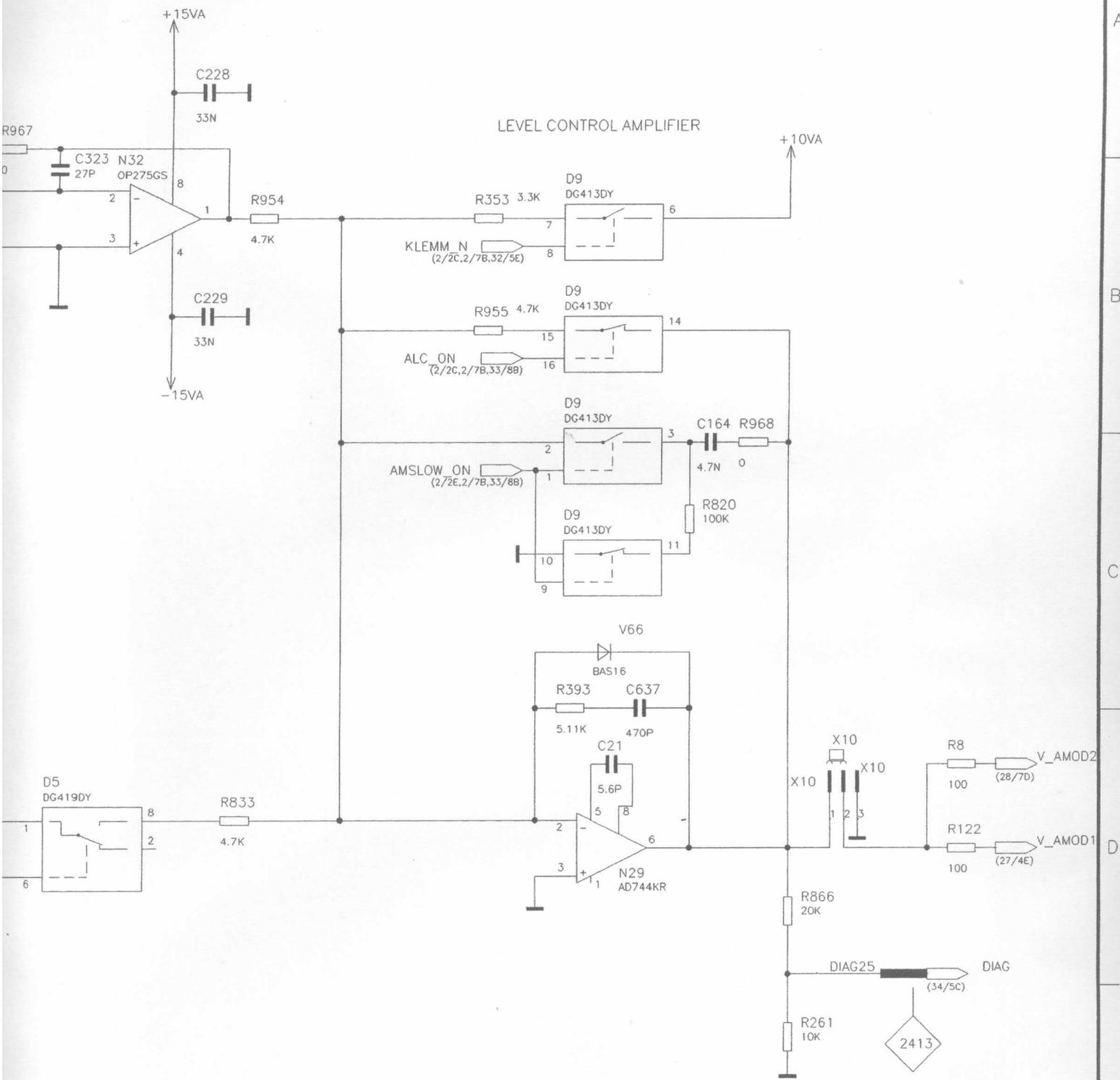
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ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFOEDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION	
		Typ: SMIQ	Datum: 99-09-09
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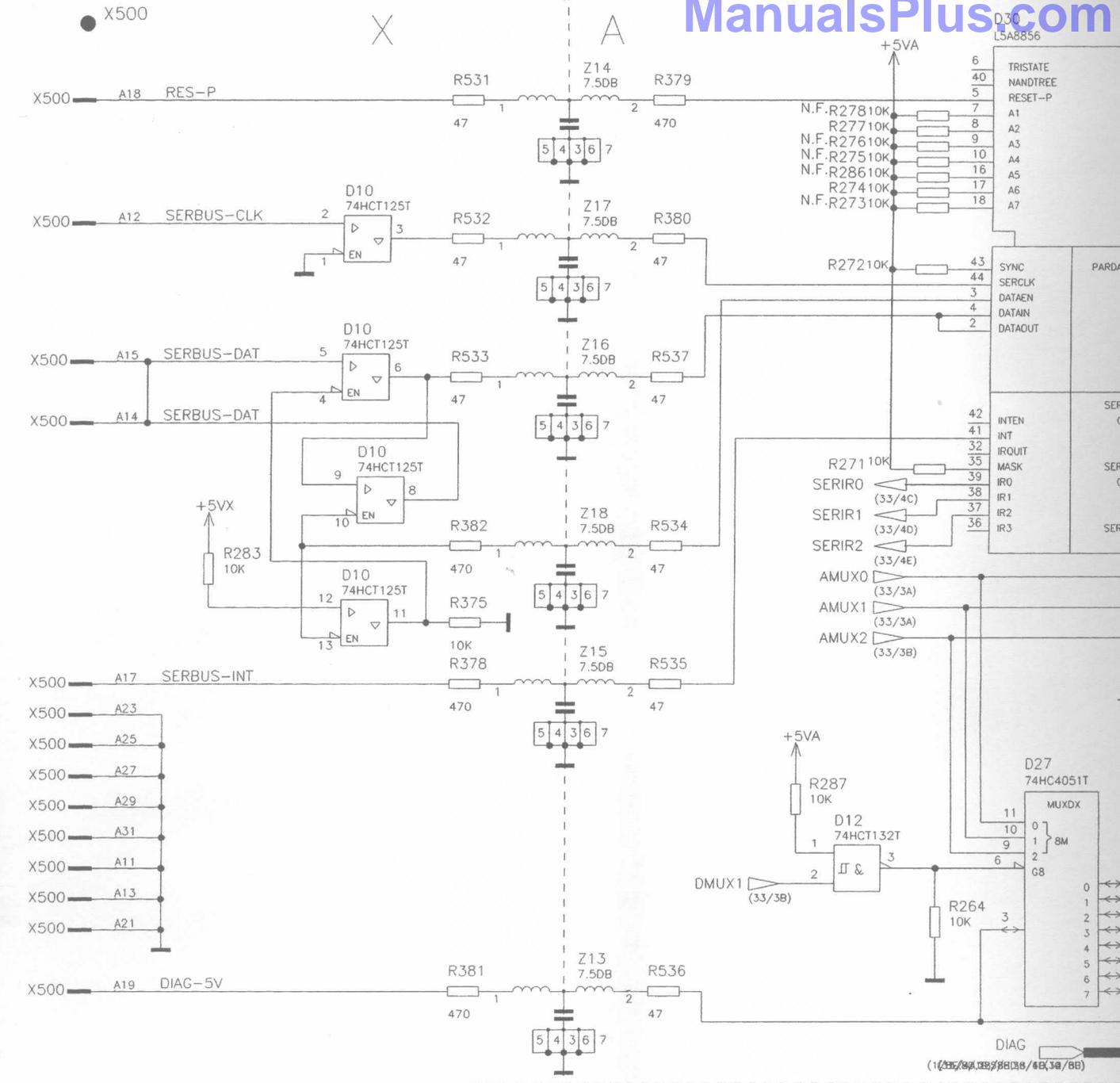


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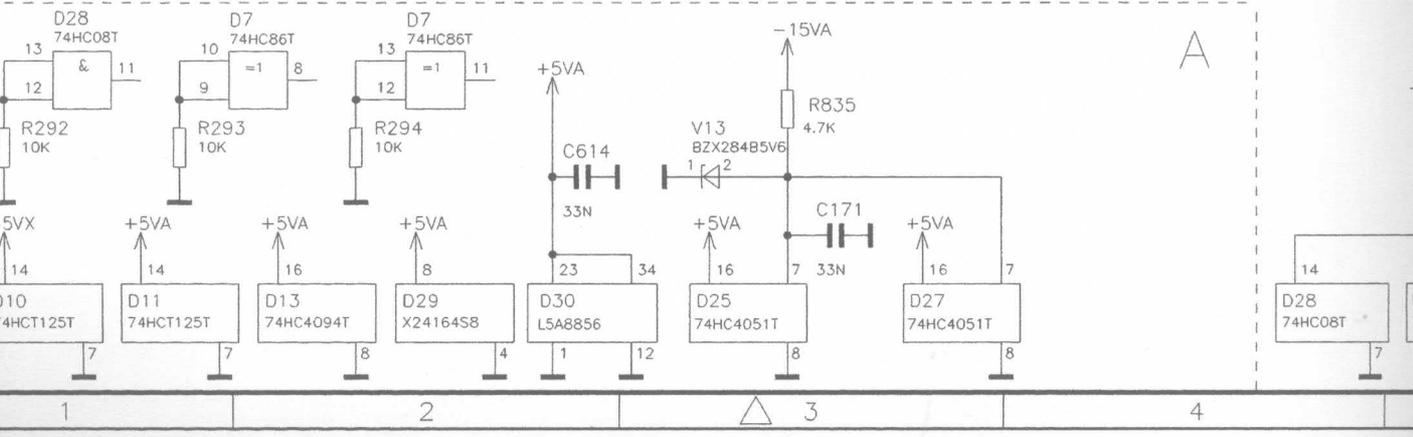
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Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S		
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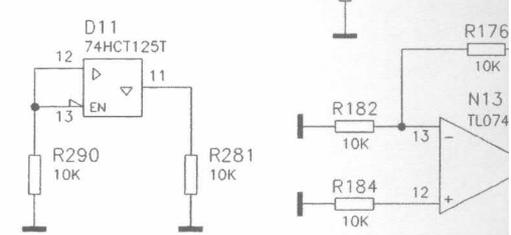
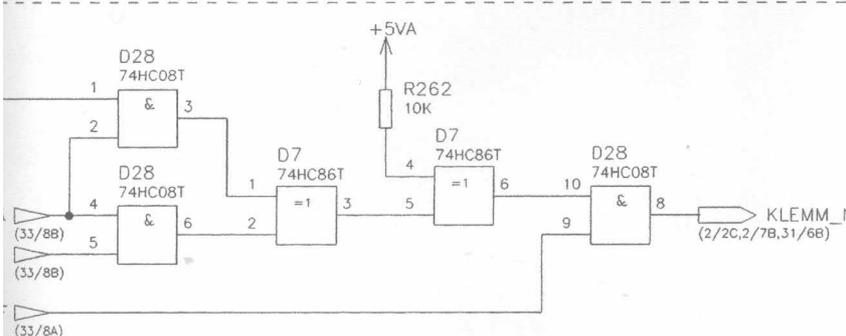
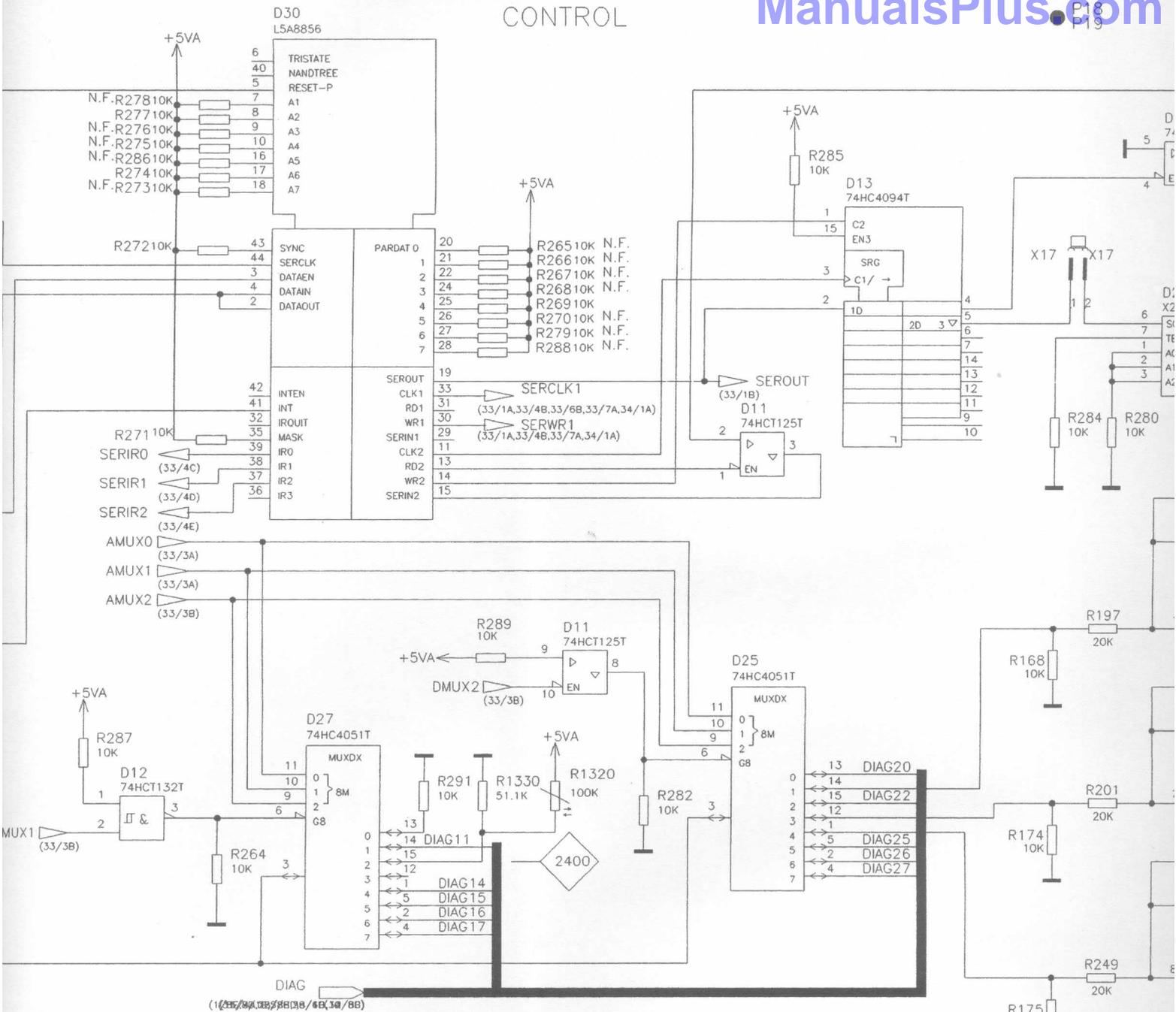
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BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING



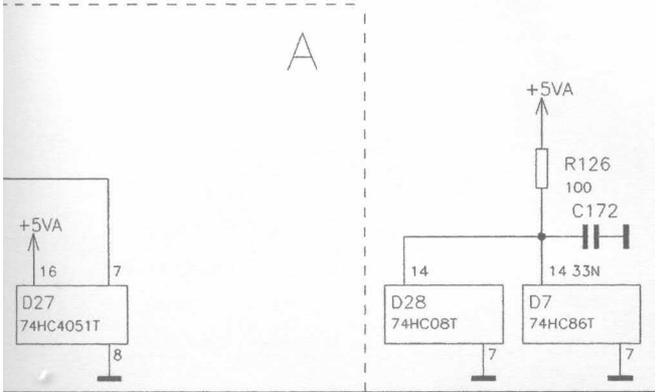
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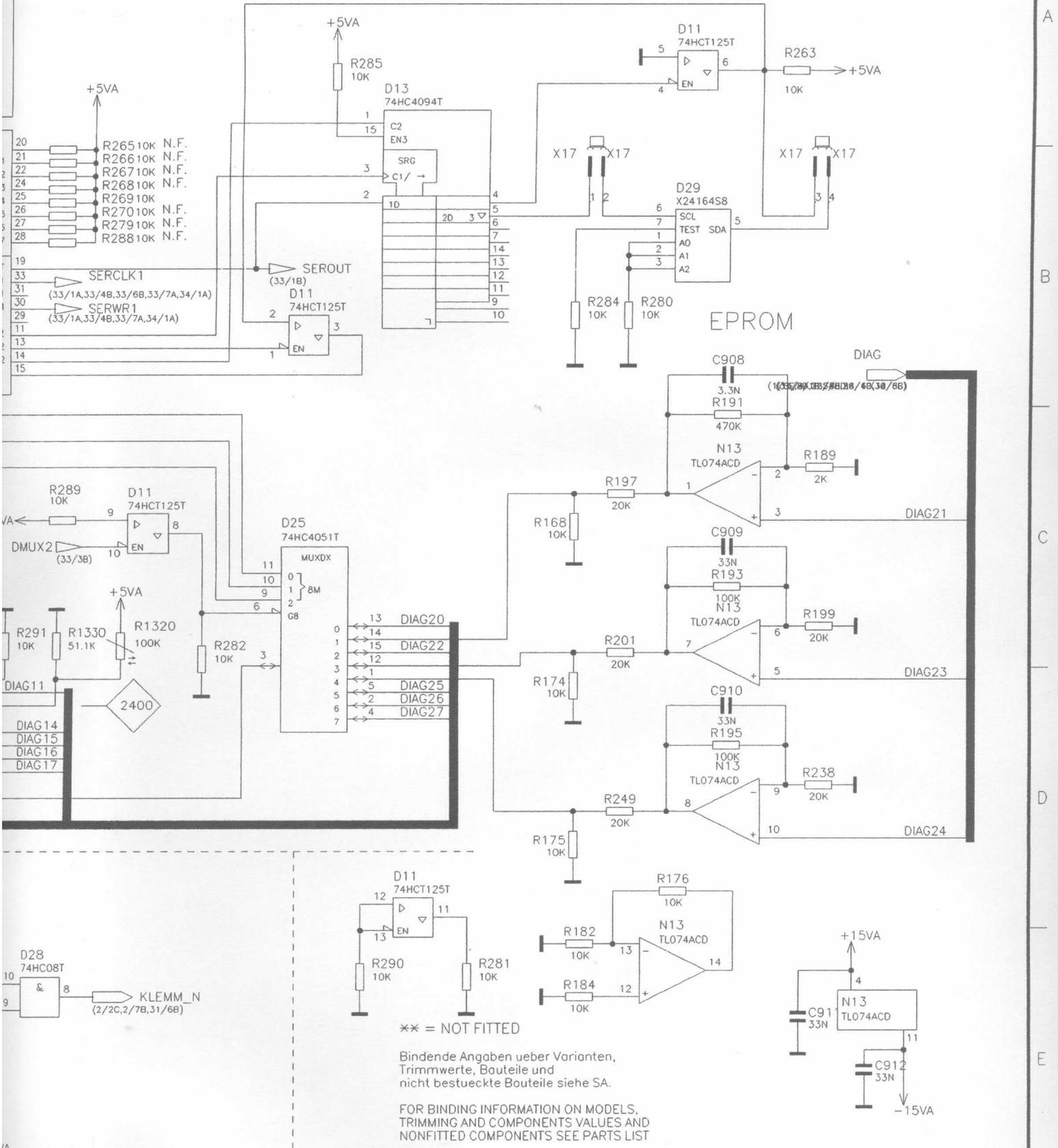
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ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE Aei: / C.I.: 06.05 Blatt: / Sh.: 32+	
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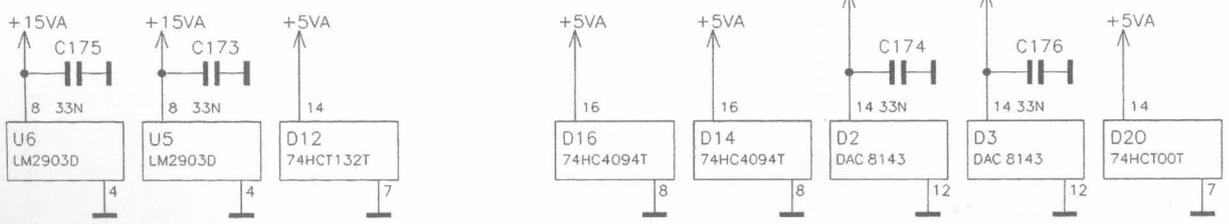
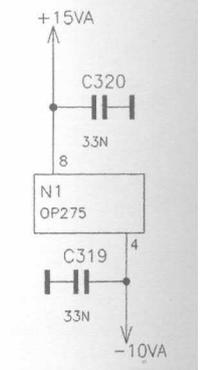
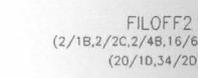
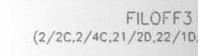
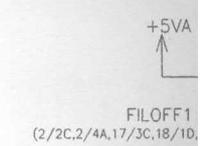
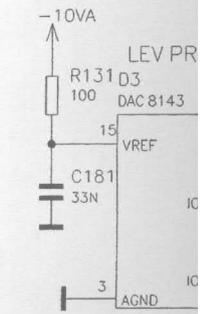
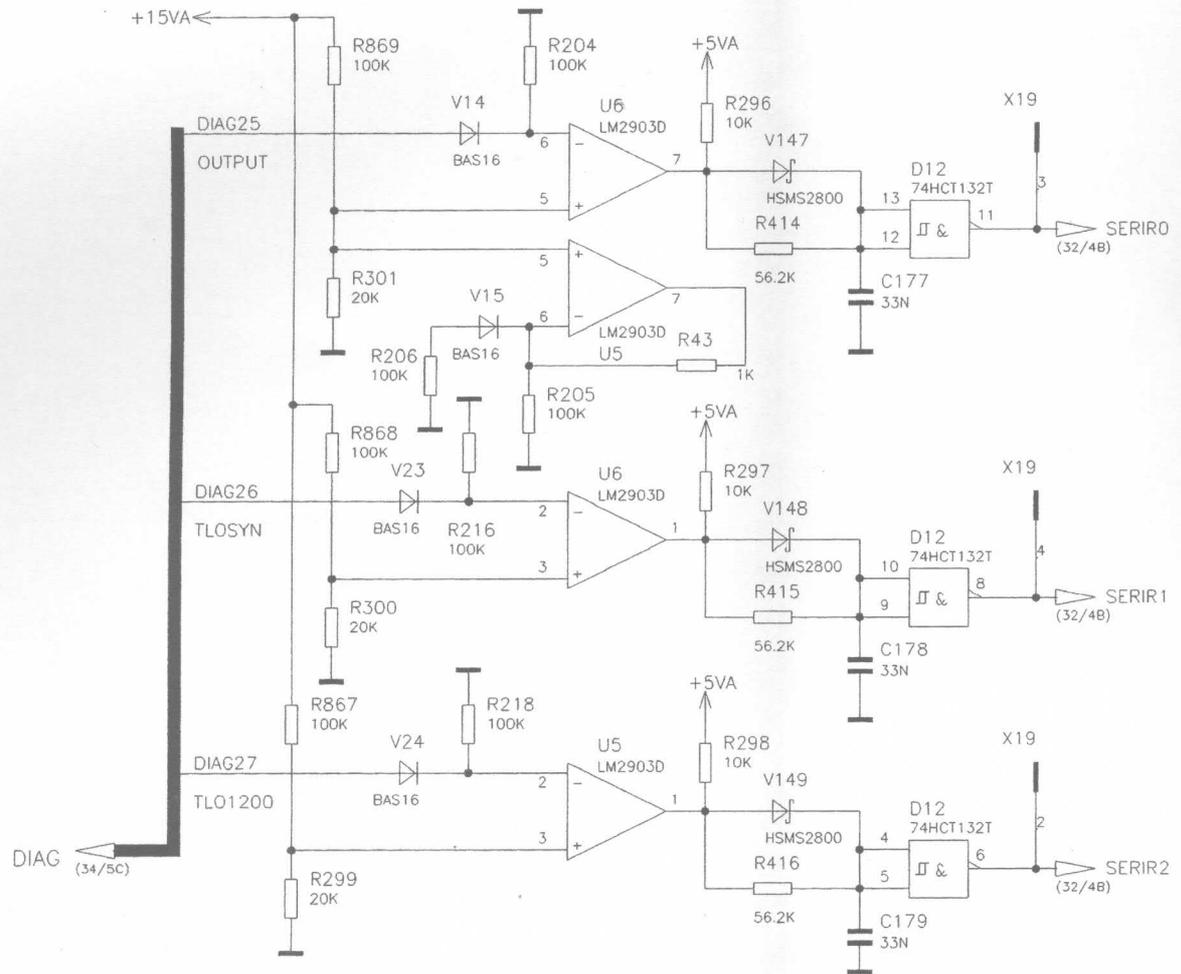
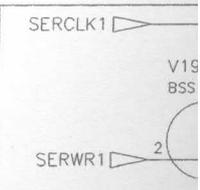
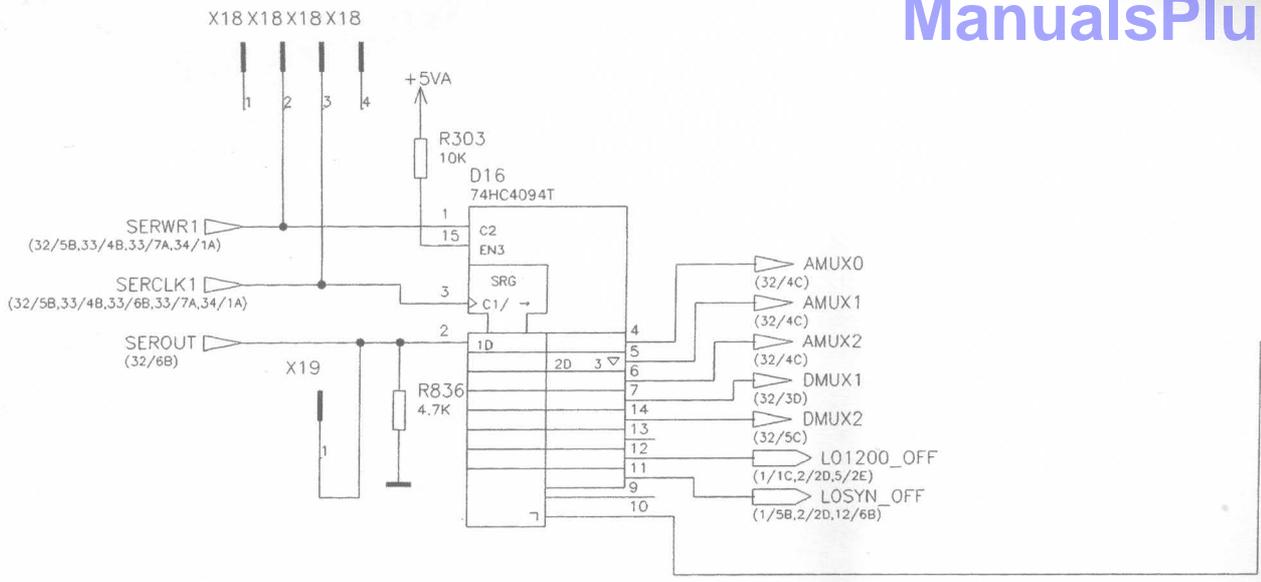
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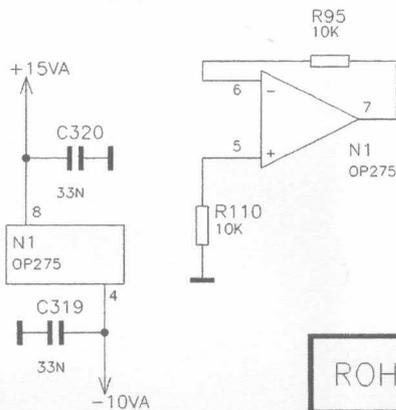
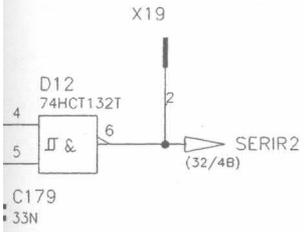
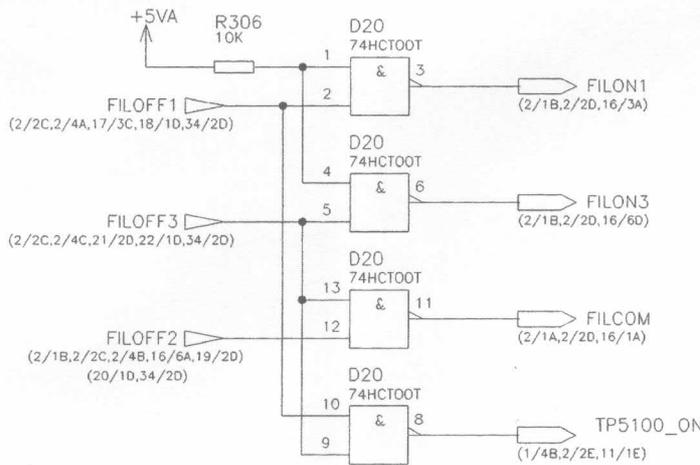
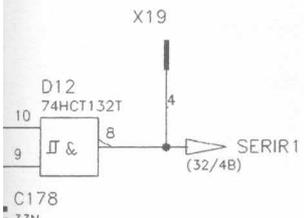
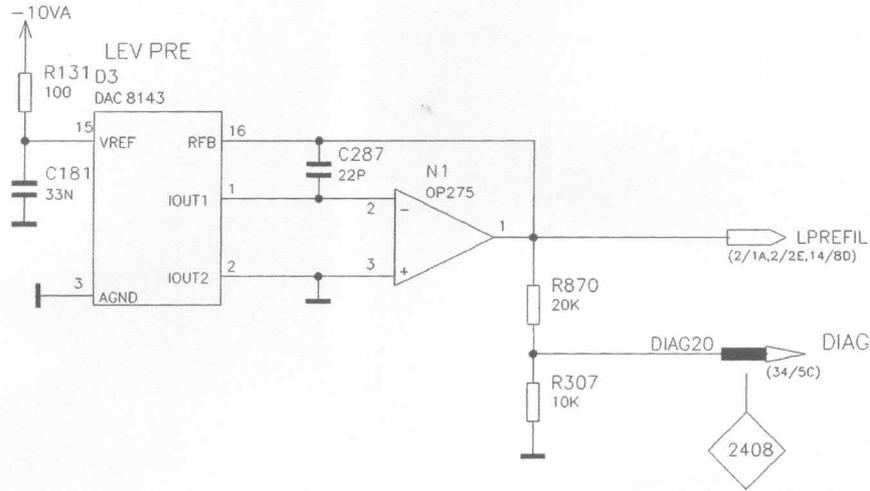
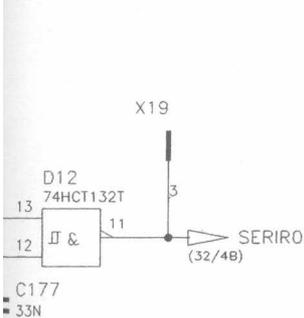
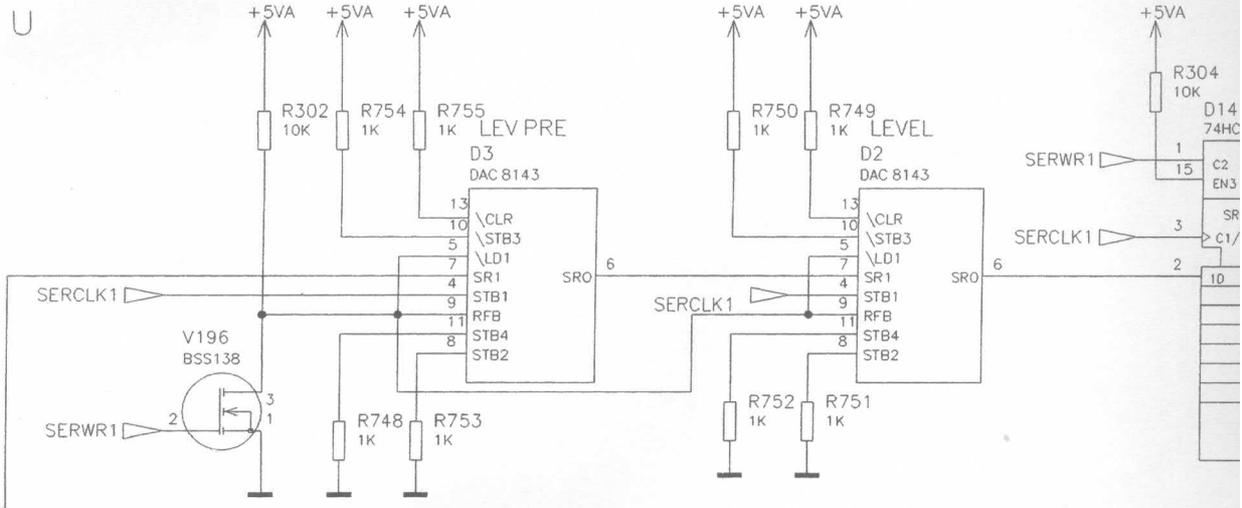
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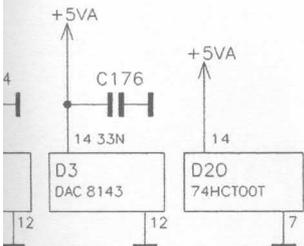
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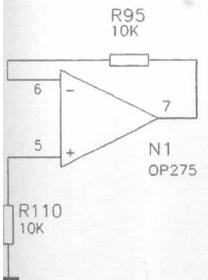
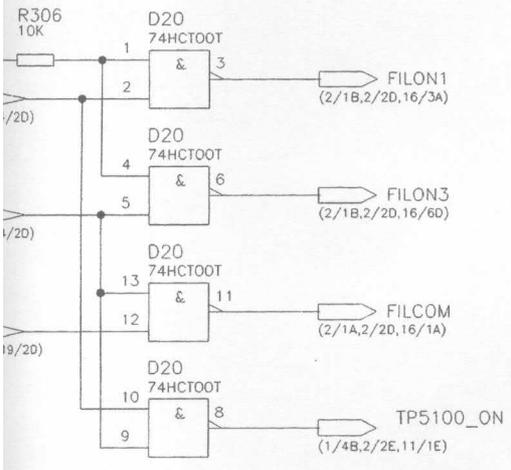
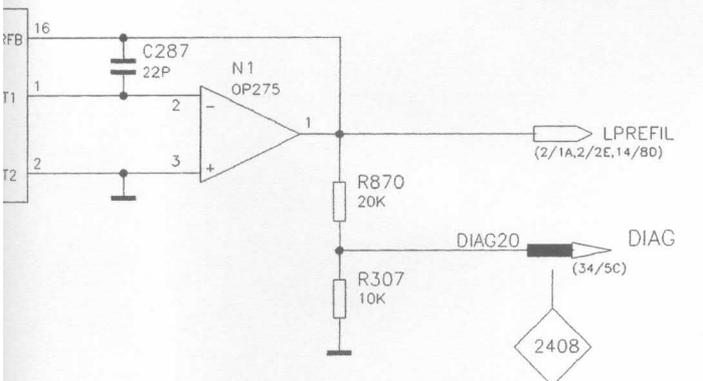
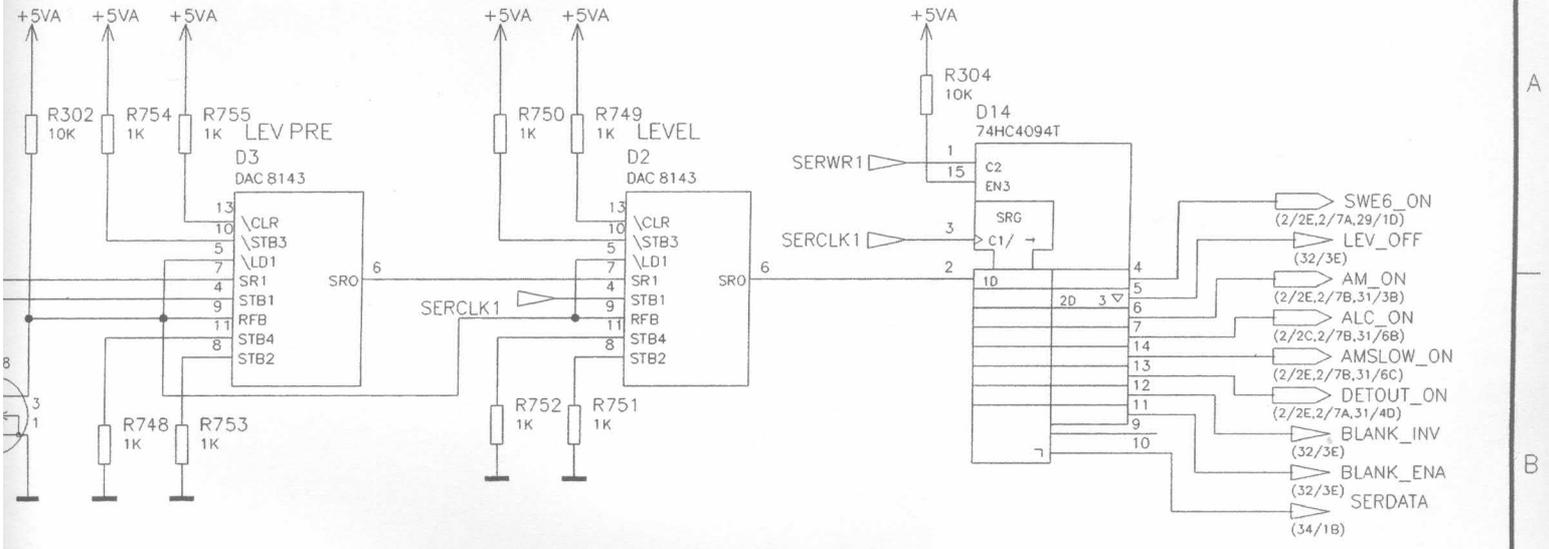
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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

** = NOT FITTED



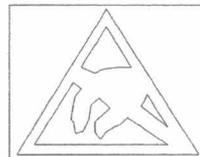
ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG		Designation: 6-GHZ-EXTENSION	
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HO		
1. Z.: used in: 1084.8004.01			Dpt:		



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

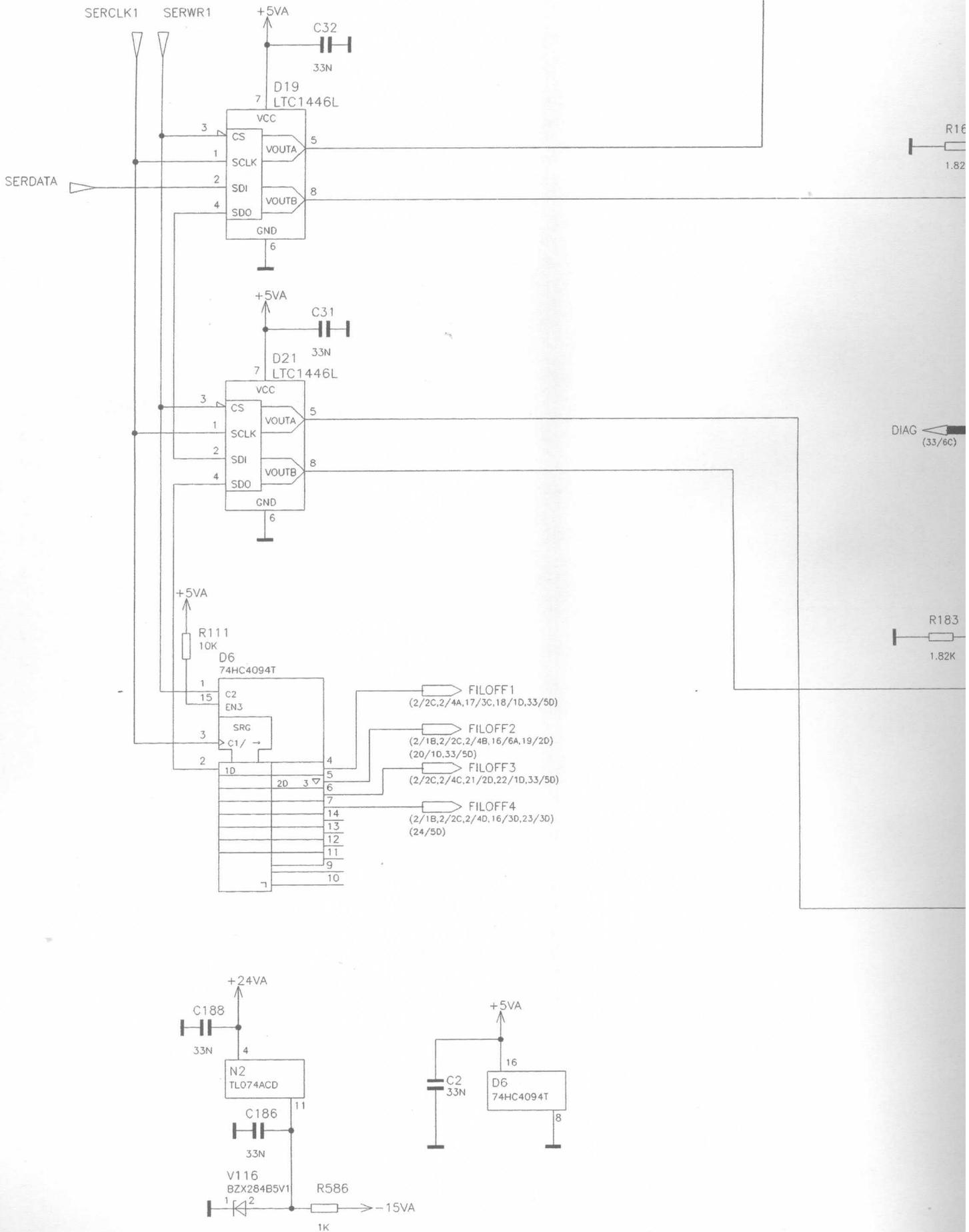
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

** = NOT FITTED



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

ROHDE&SCHWARZ				Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 33+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zechn. Nr.: / Drawing No.: 1084.9600.01 S			
I. Z.: used in: 1084.8004.01		TOP/ANSTEUERUNG_55/ANSTEUERUNG.2									

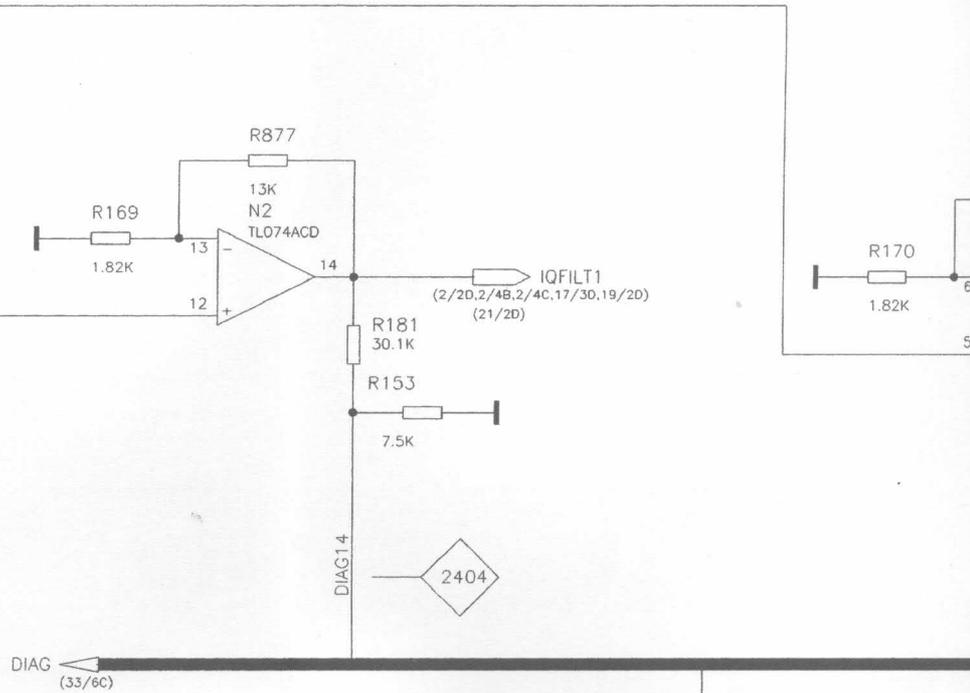


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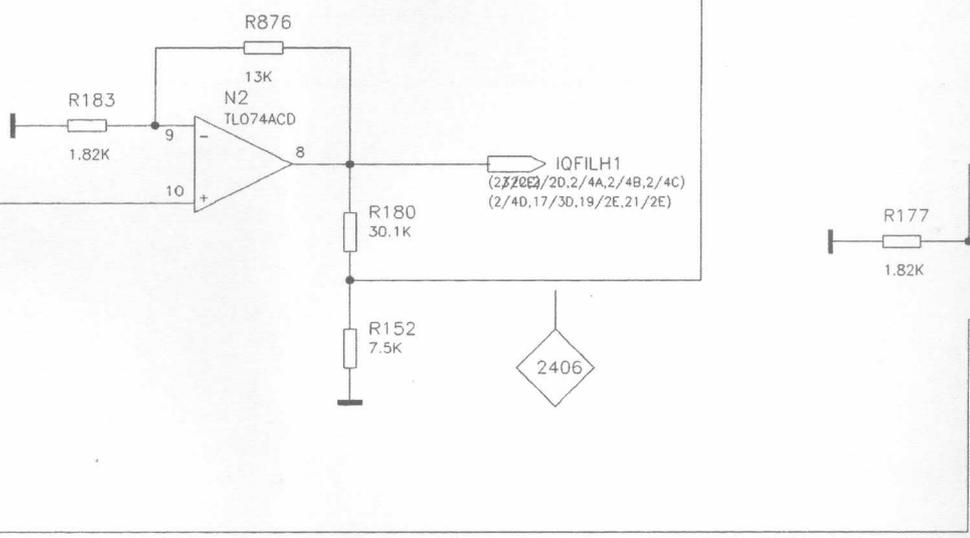
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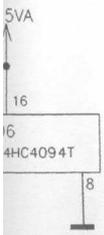


DIAG (33/6C)

DIAG16



- F1 (18/1D,33/5D)
- F2 (5/6A,19/2D)
- F3 (22/1D,33/5D)
- F4 (5/3D,23/3D)



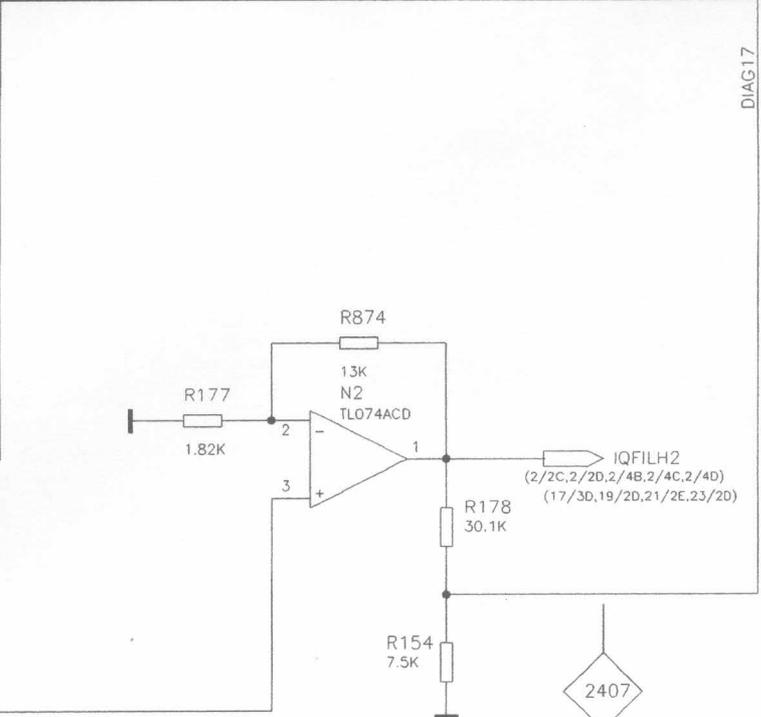
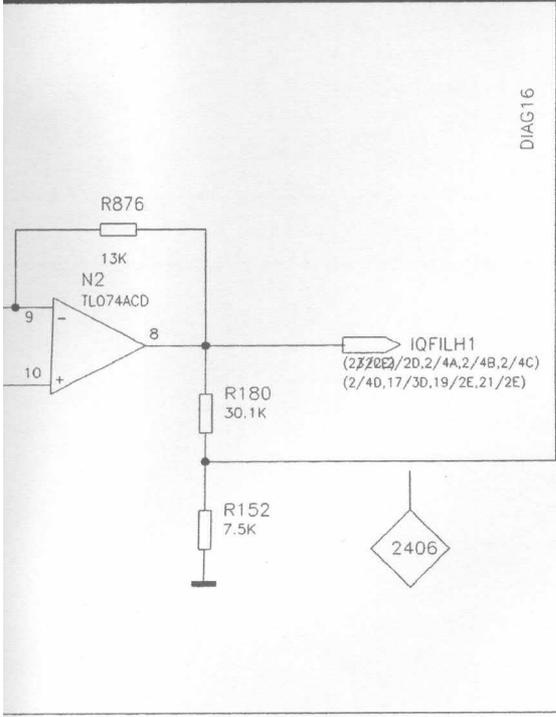
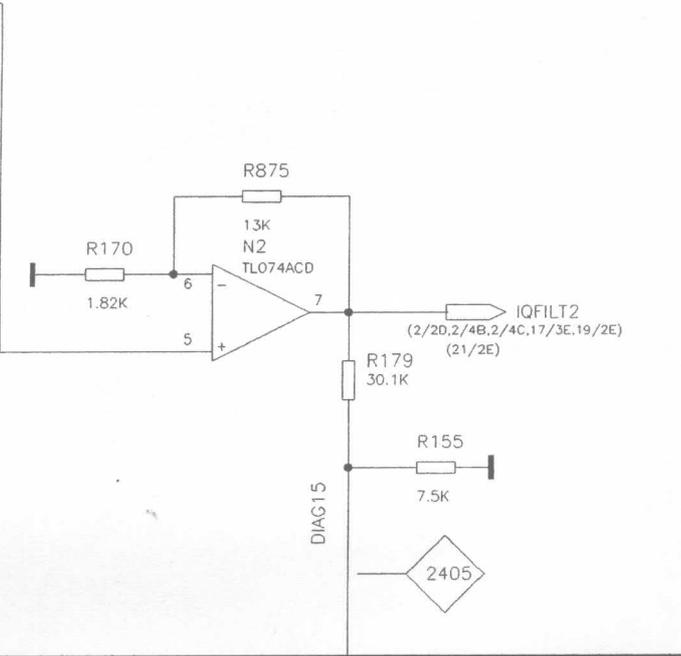
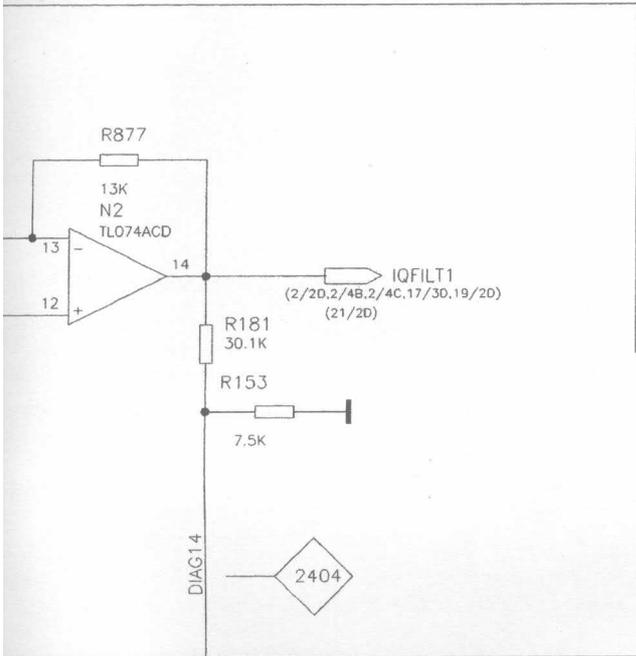
Bindende Angaben ueber Variar
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe
FOR BINDING INFORMATION ON
TRIMMING AND COMPONENTS VA
NONFITTED COMPONENTS SEE P

** = NOT FITTED

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITER	
		Designation: 6-GHZ-EXTENSION	
Typ:	SMIQ	Datum:	99-09-09
Type:		Date:	
1. Z.:	1084.8004.01	Abteilung:	1GF
used in:		Dpt:	

U

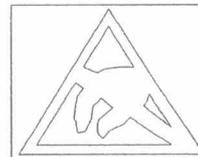
A
B
C
D
E
F



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

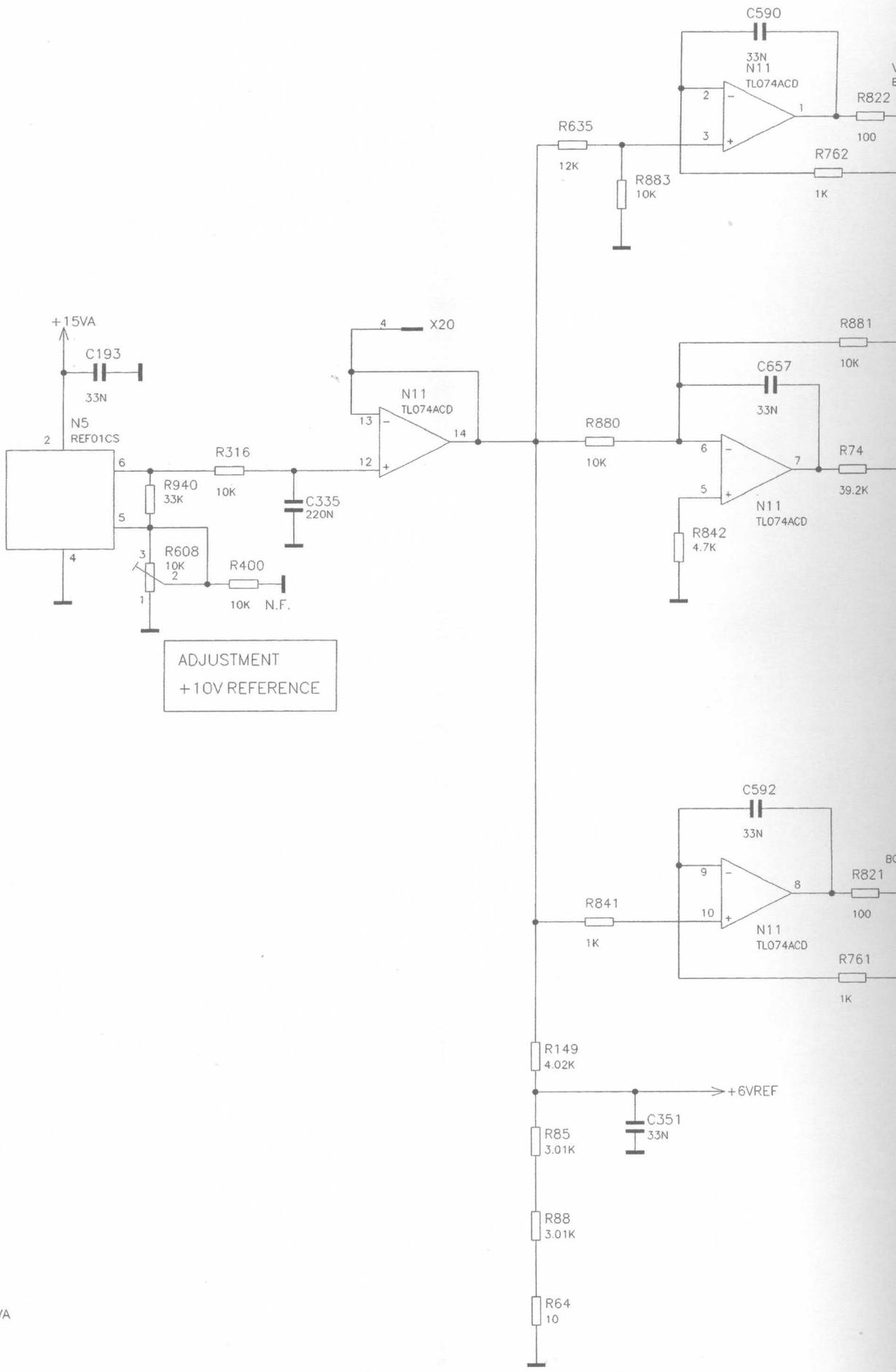
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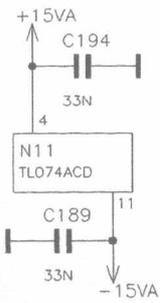
ACHTUNG: EGB !
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

ROHDE&SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache: / Lang.: DE		Aei: / C.I.: 06.05		Blatt: / Sh.: 34+	
Typ: SMIQ		Datum: 99-09-09		Abteilung: 1GPK		Name: HOFBERGE		Zeichn. Nr.: / Drawing No.: 1084.9600.01 S	
I. Z.: used in: 1084.8004.01								TOP/ANSTEUERUNG_55/ANSTEUERUNG.3	

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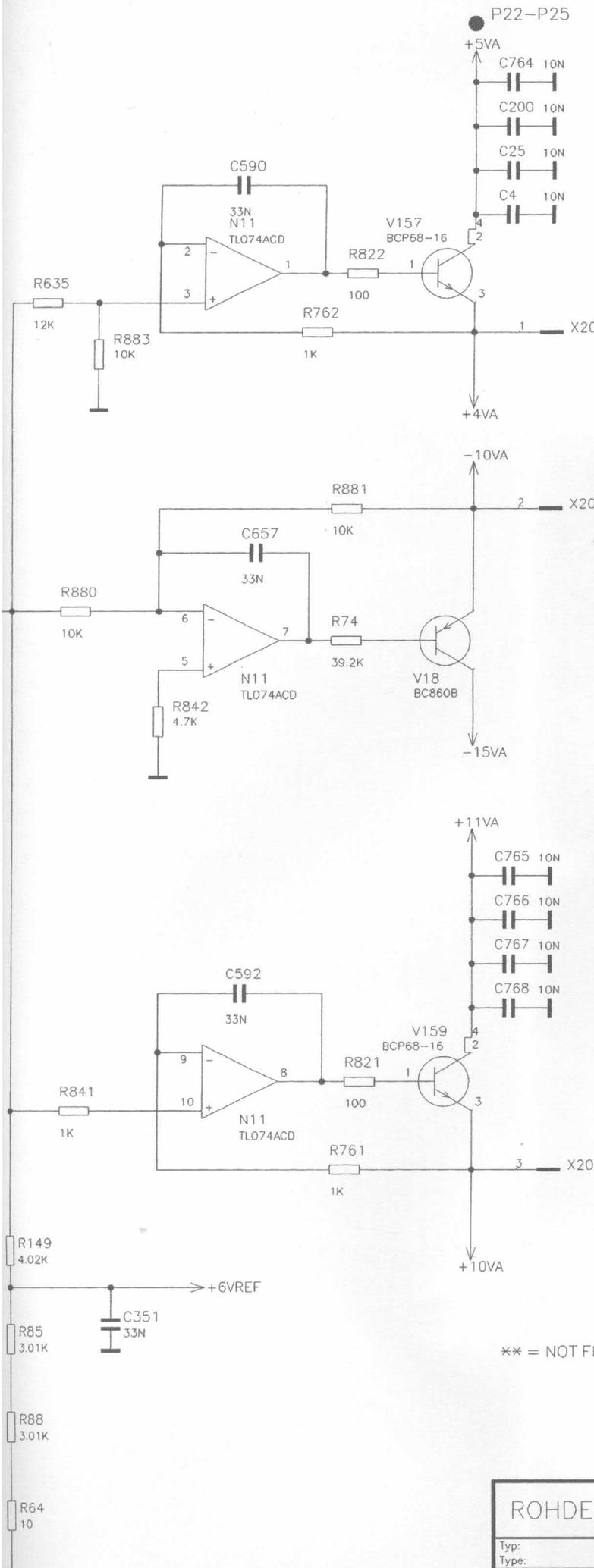


ADJUSTMENT
+10V REFERENCE



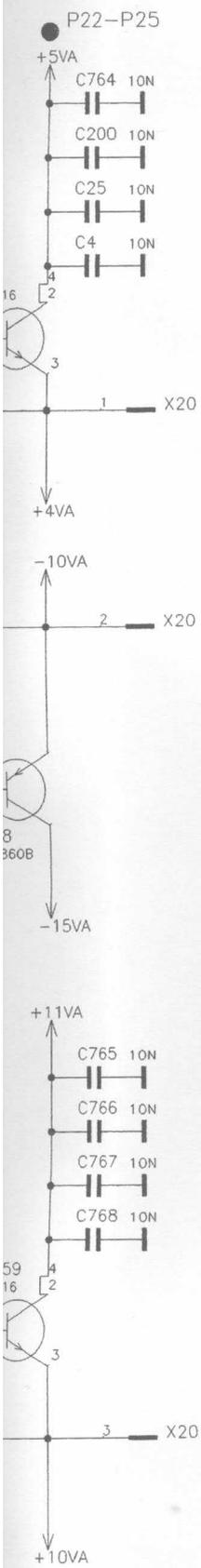
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REFERENCE VOLTAGE



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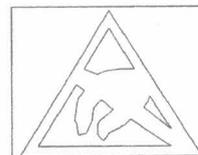
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Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFI		
1. Z.: used in: 1084.8004.01			TOP/ANSTEUERUNG_55		



REFERENCE VOLTAGE

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

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

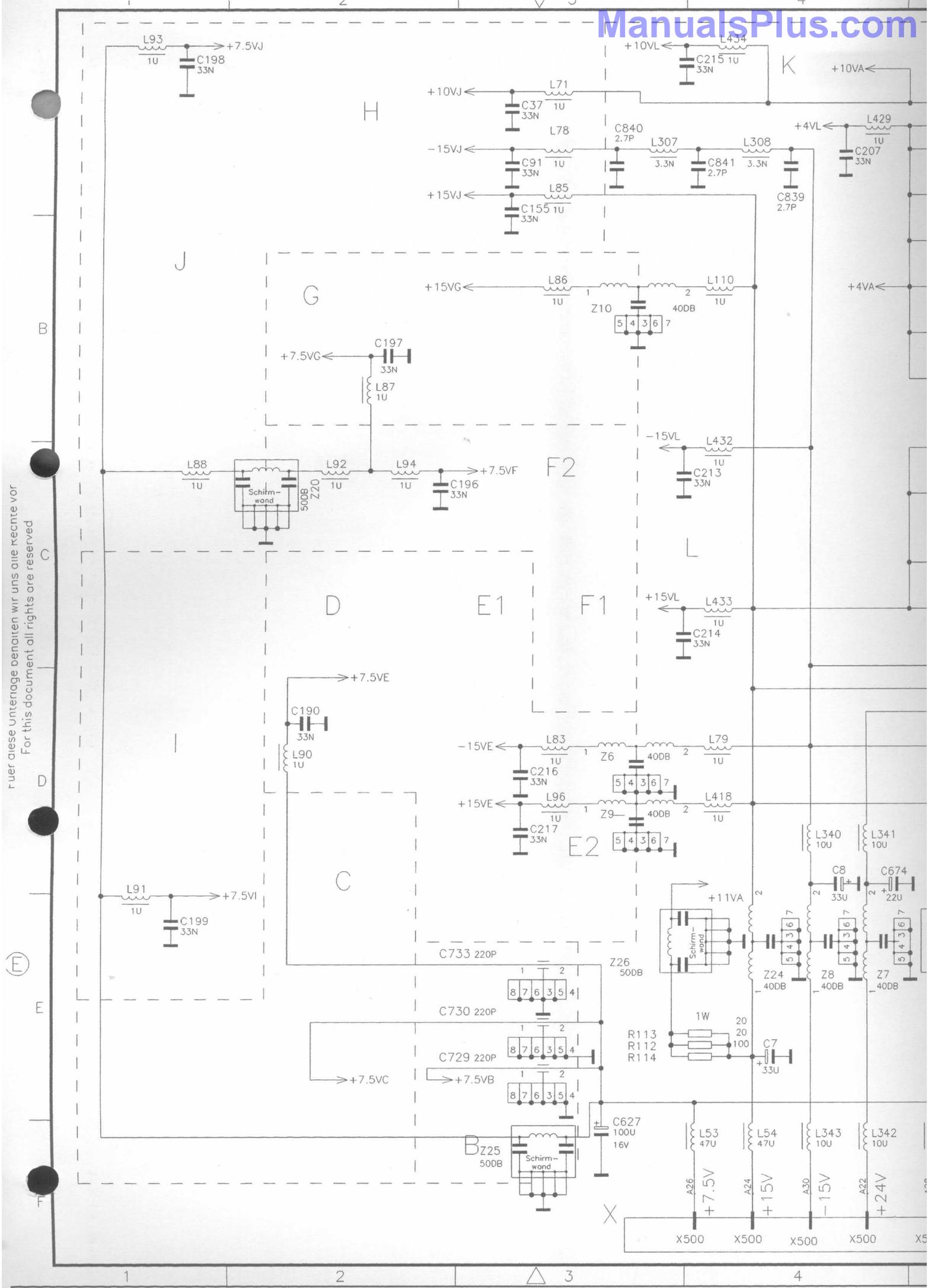


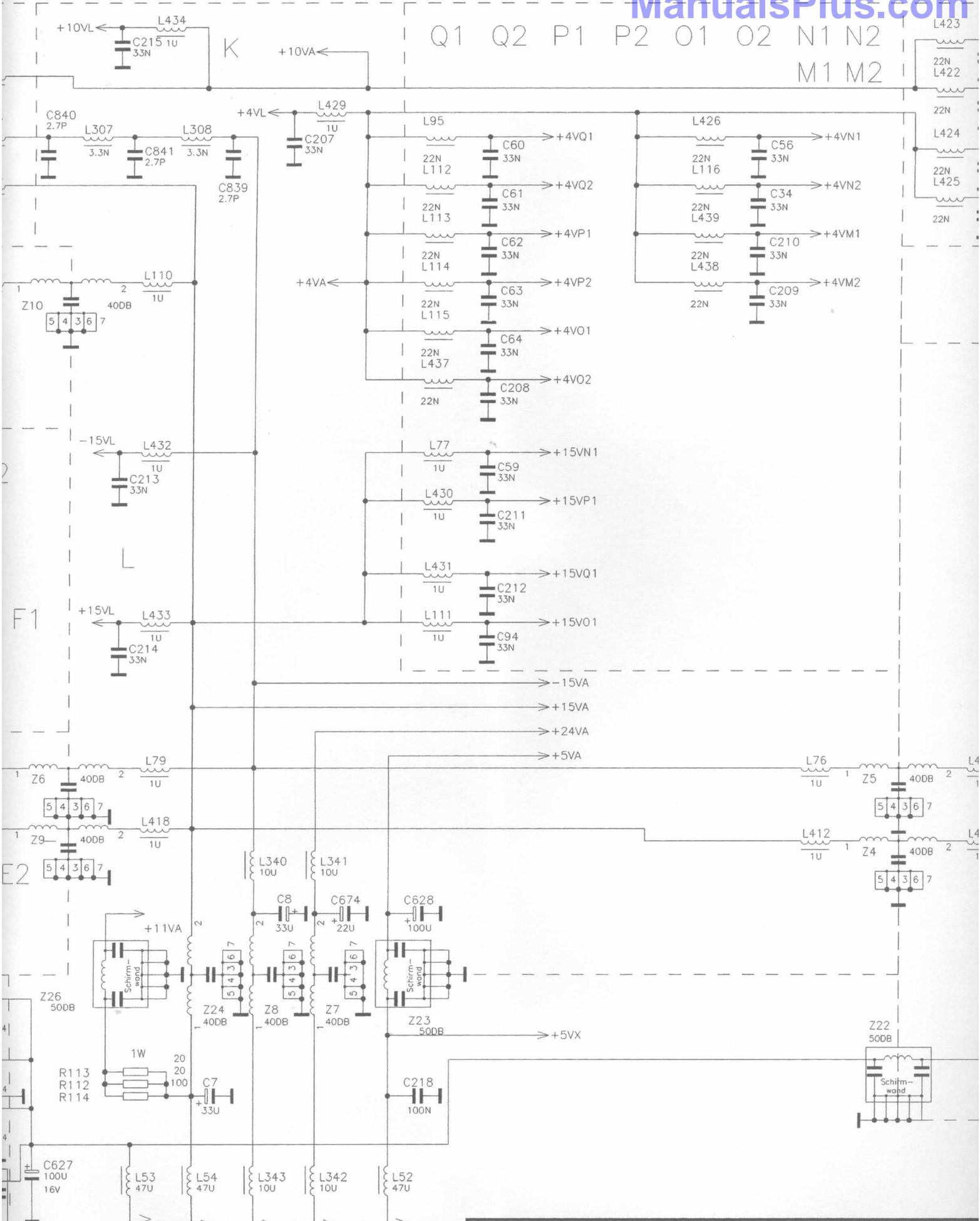
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

** = NOT FITTED

ROHDE&SCHWARZ	Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Sprache / Lang.: DE	Aei: / C.I.: 06.05	Blatt: / Sh.: 35+
	Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE	Zeichn. Nr.: / Drawing No.: 1084.9600.01 S
1. Z.: used in: 1084.8004.01		TOP/ANSTEUERUNG_55/ANSTEUERUNG.4			

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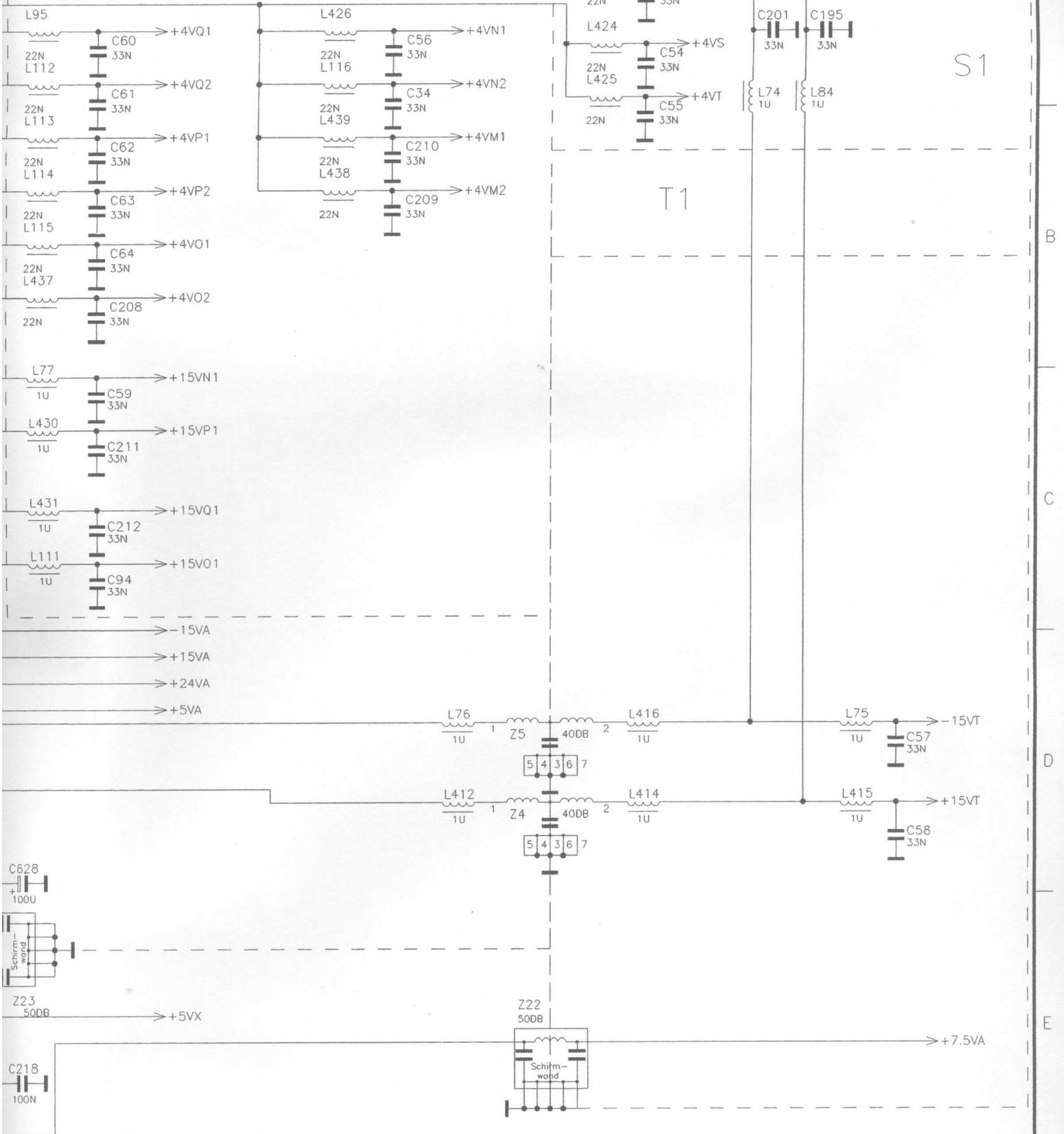




Q1 Q2 P1 P2 O1 O2 N1 N2
M1 M2

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION		Datum: 99-09-09 Date: 99-09-09	Abteilung: 1GPK Dpt:	Norm Norm
		Typ: SMIQ Type: SMIQ				

Q1 Q2 P1 P2 O1 O2 N1 N2
M1 M2

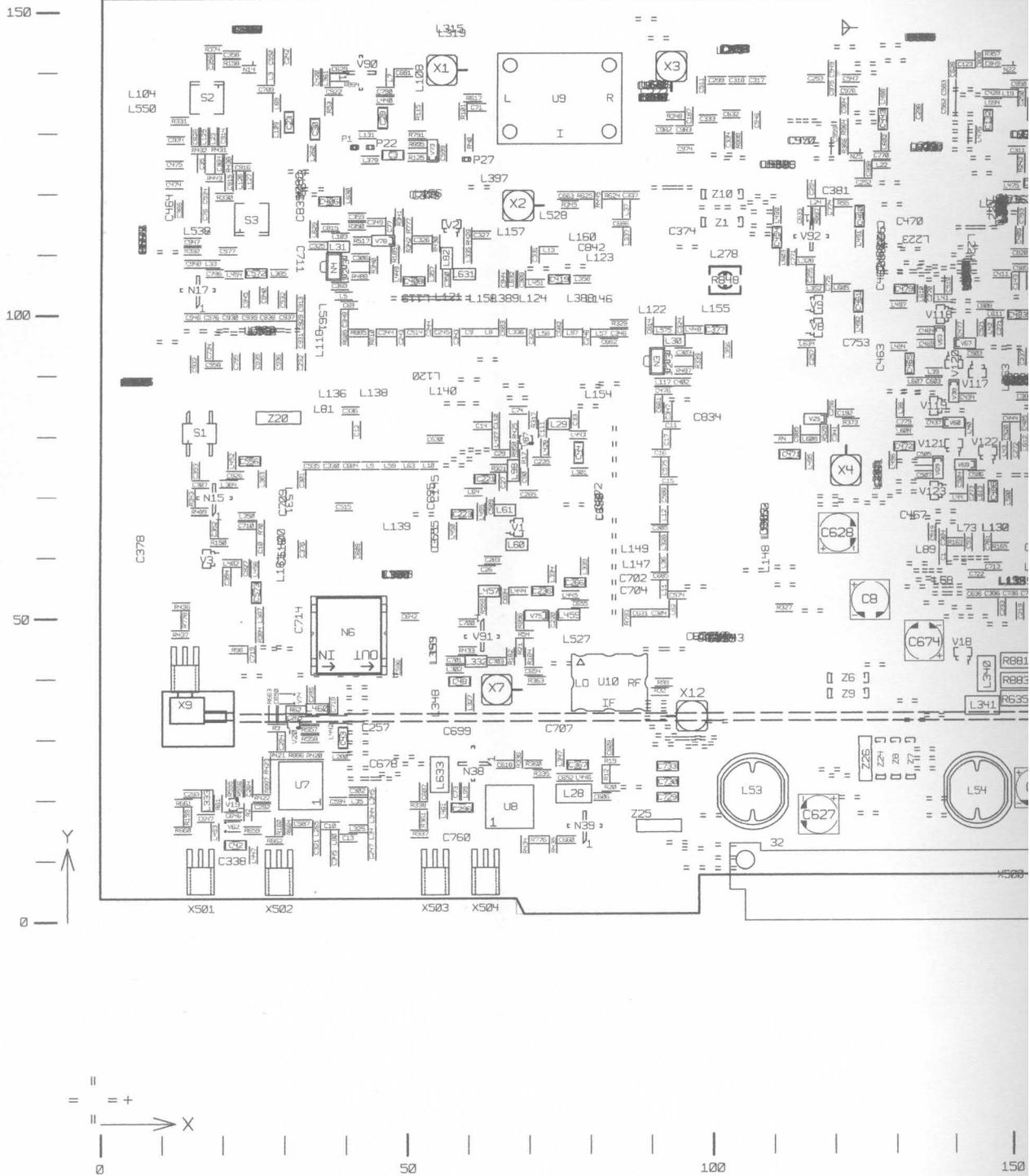


.52
7C
+5V

ROHDE & SCHWARZ		Benennung: 6-GHZ-ERWEITERUNG Designation: 6-GHZ-EXTENSION			Sprache: / Long.: DE	Aei: / C.I.: 06.05	Blatt: / Sh.: 36-
Typ: SMIQ	Datum: 99-09-09	Abteilung: 1GPK	Name: HOFBERGE	Zechn. Nr.: / Drawing No.: 1084.9600.01 S			
1. Z.: used in: 1084.8004.01	Date:	Dpt:	Name:	TOP/ANSTEUERUNG_55/ANSTEUERUNG.5			

POWER-UNIT 1084.9500.02 with
 11ST. 088.0024 and
 11ST. 005.0280 and
 5ST. 048.6496 screws.

- The power unit should be mounted in the following order:
1. Fix power unit by means of screws 1+2 (tighten screws only 11)
 2. Lay and connect cables.
 3. Mount top cover and fix power unit by means of screws 3+4 (front side, next SMA connector)
 4. Tighten screws 1+2 with 60 Ncm
 5. Remove top cover.
 6. Wire eight lead-through filters of power unit with PCB (inclu
 7. Mount top and bottom covers and tighten all remaining screws (7 1tms 088.0024 + 005.0280 on components side, 5 1tms 048.6496 soldered side.)



- 11ST. 088.0024 UND
- 11ST. 005.0280 UND
- 5ST. 048.6496 VERSCHRAUBEN.

DIE POWER-UNIT SOLLTE NACH FOLGEN

1. POWER-UNIT MIT SCHRAUBE 1+2 BEFESTIGEN.
2. KABEL VERLEGEN UND EINSTECKEN.
3. DECKEL OBEN BESTUECKEN, UND POWER-UNIT MIT SCHRAUBE 3+4 BEFESTIGEN. (STIRNSEITE)
4. SCHRAUBE 1+2 MIT 60Ncm FESTZIEHEN.
5. DECKEL OBEN WIEDER ENTFERNEN.
6. 8 X DURCHFUEHRUNGSFILTER DER POWER-UNIT MIT SCHRAUBE 1+2 BEFESTIGEN.
7. WENN DIE DECKEL OBEN UND UNTEN MONTIEREN, RESTLICHEN SCHRAUBEN MIT 60Ncm FESTZIEHEN.

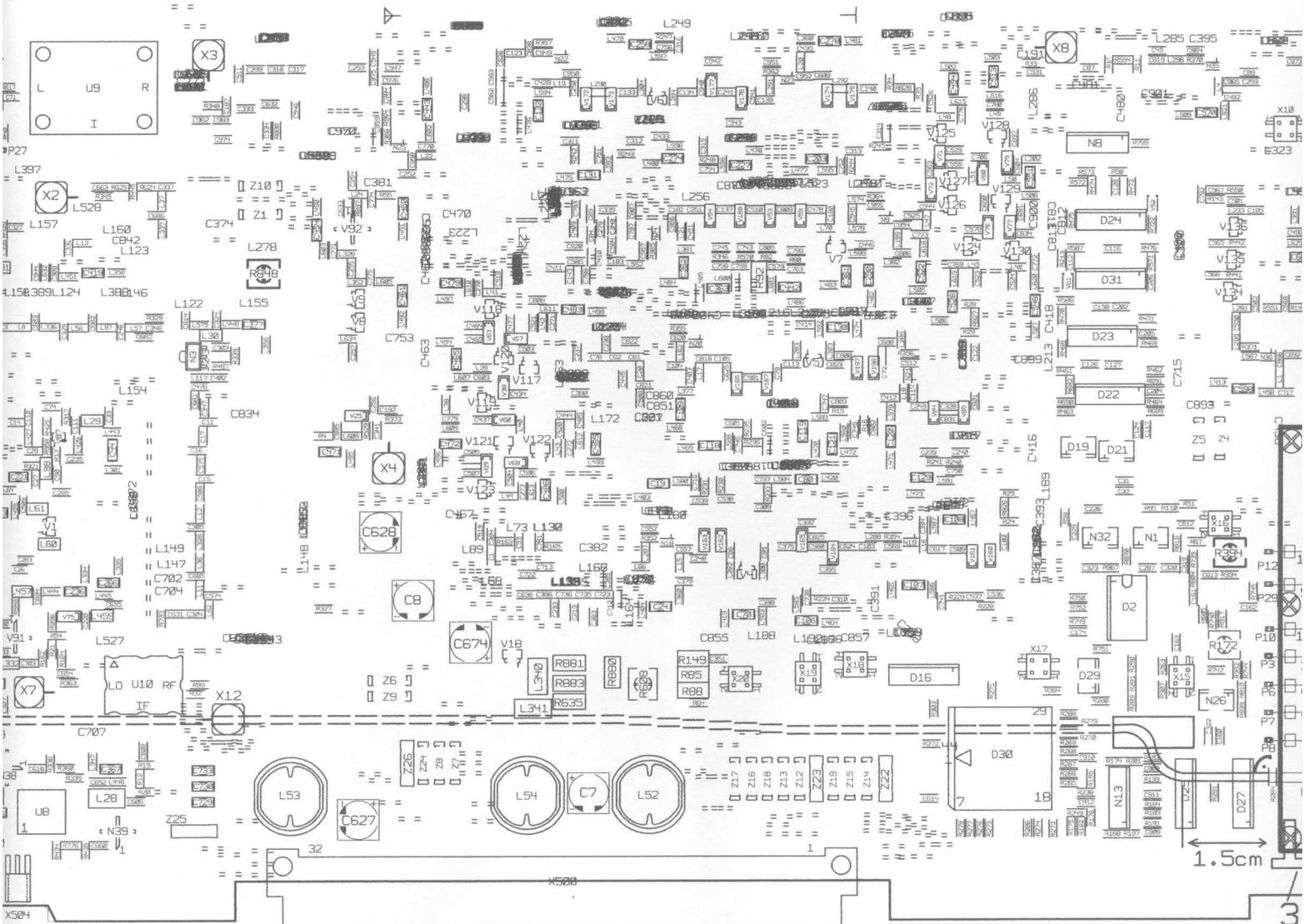
(7 ST. 088.0024 + 005.0280 AUF BAUTSEITE, 5 ST. 048.6496 AUF LOETSEITE.)

1084.9500.02 with
3.0024 and
5.0280 and
3.6496 screws.

It should be mounted in the following order:
unit by means of screws 1+2 (tighten screws only lightly.)

connect cables.
cover and fix power unit by means of screws 3+4
(next SMA connector)
screws 1+2 with 60 Ncm
cover.

lead-through filters of power unit with PCB (include strain relief).
and bottom covers and tighten all remaining screws with 60Ncm.
3.0024 + 005.0280 on components side, 5 times 048.6496 on
side.)



100 150 200 250

POWER-UNIT 1084.9500.02 MIT

- 11ST. Ø88.0024 UND
- 11ST. Ø05.0280 UND
- 5ST. Ø48.6496 VERSCHRAUBEN.

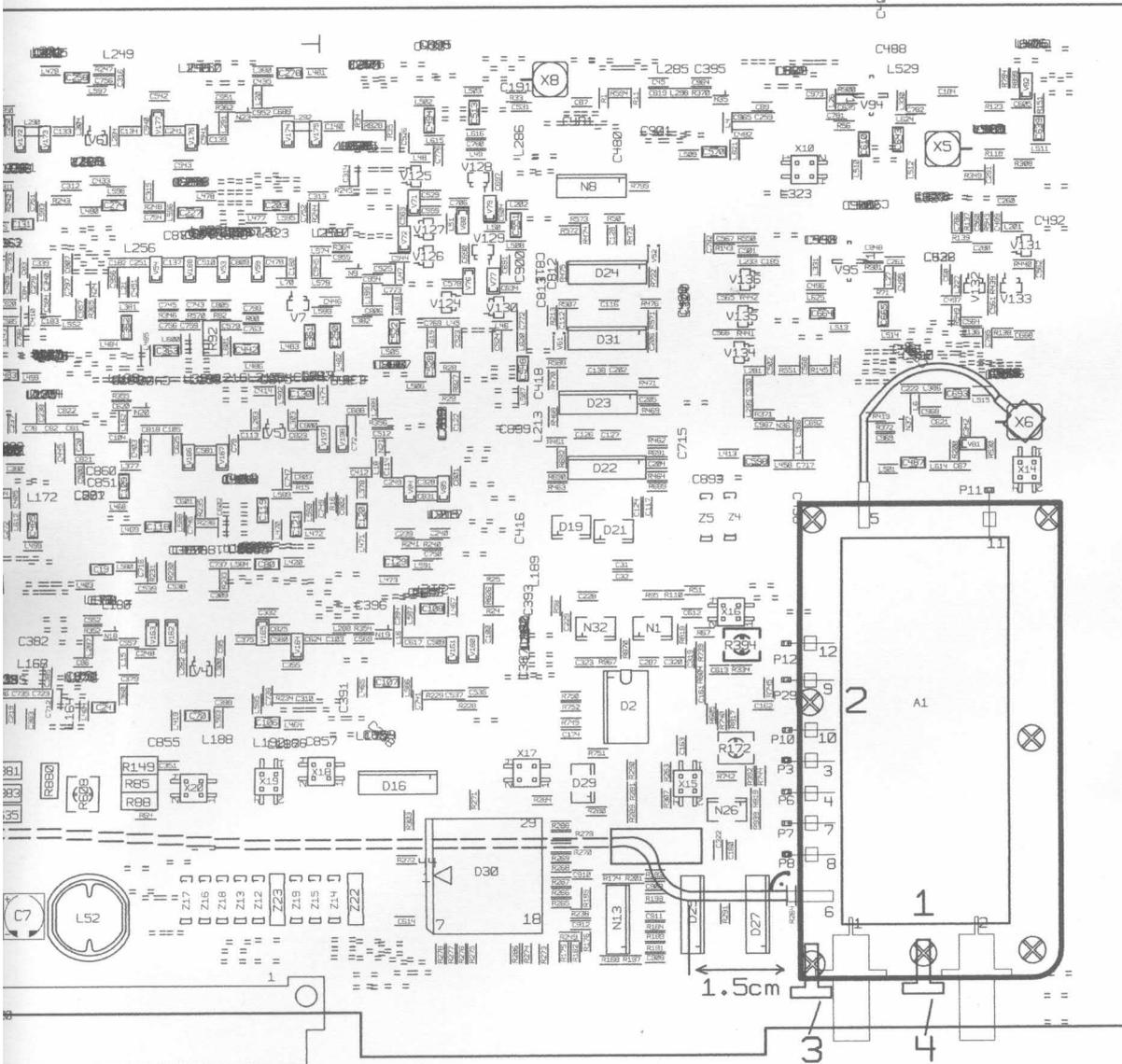
DIE POWER-UNIT SOLLTE NACH FOLGENDER REIHENFOLGE MONTIERT WERDEN:

1. POWER-UNIT MIT SCHRAUBE 1+2 BEFESTIGEN. (SCHRAUBEN NUR LEICHT ANZIEHEN.)
2. KABEL VERLEGEN UND EINSTECKEN.
3. DECKEL OBEN BESTUECKEN, UND POWER-UNIT MIT SCHRAUBE 3+4 BEFESTIGEN. (STIRNSEITE, NEBEN SMA STECKER)
4. SCHRAUBE 1+2 MIT 60Ncm FESTZIEHEN.
5. DECKEL OBEN WIEDER ENTFERNEN.
6. 8 X DURCHFUEHRUNGSFILTER DER POWER-UNIT MIT LP VERDRAHTEN. (MIT ZUGENTLASTUNG)
7. WENN DIE DECKEL OBEN UND UNTEN MONTIERT WERDEN, ALLE RESTLICHEN SCHRAUBEN MIT 60Ncm FESTZIEHEN.

(7 ST. Ø88.0024 + Ø05.0280 AUF BAUTEILSEITE.
5 ST. Ø48.6496 AUF LOETSEITE.)

ightly.)

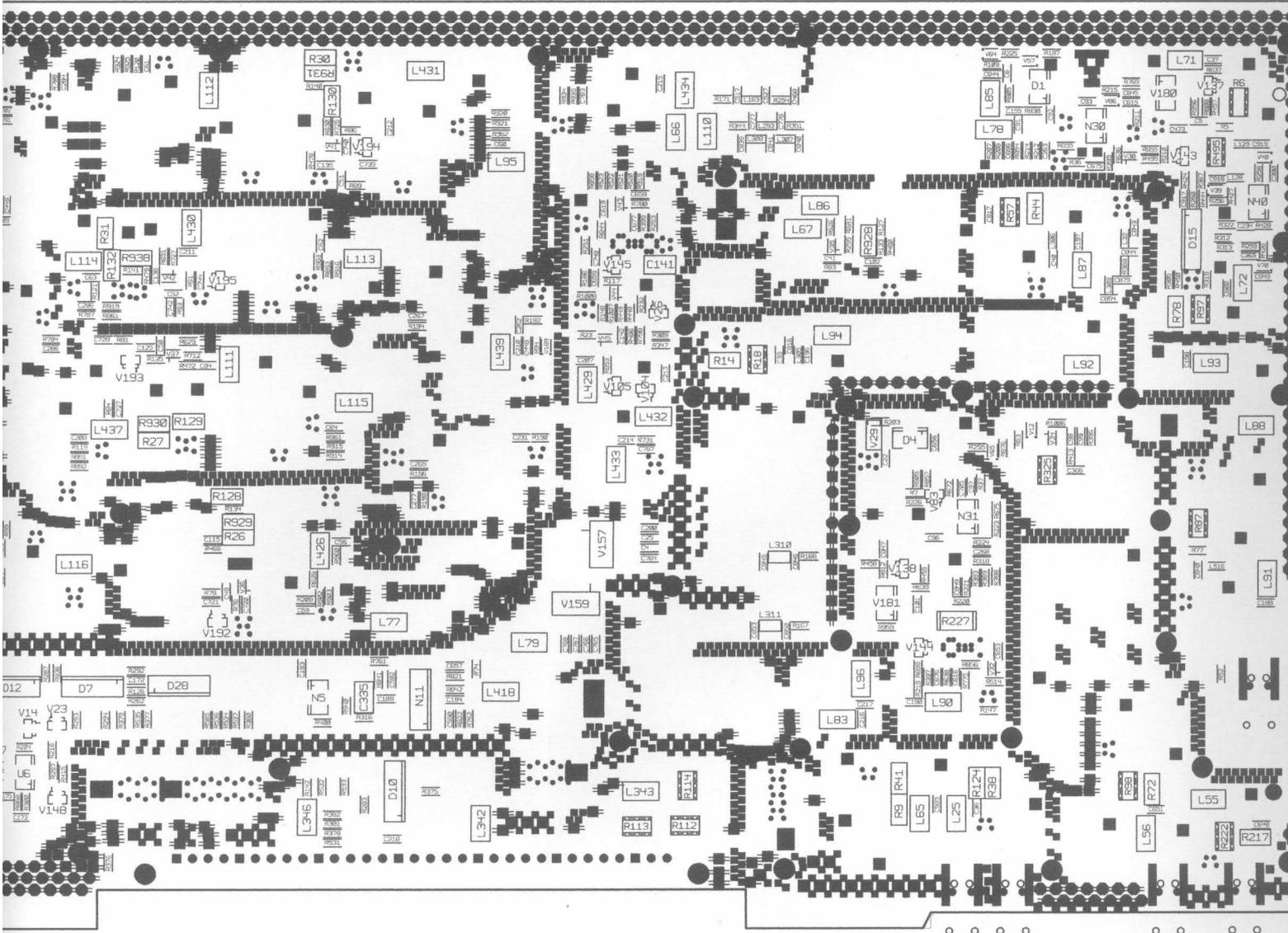
ude strain relief).
with 60Ncm.
496 on



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

BEZUGSANGABEN LIEFERN VARIANTE,
TRIMMWERTE, BAUTEILWERTE UND NICHT
BESTRICKTE BAUTEILE SIEHE SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENT VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

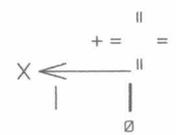
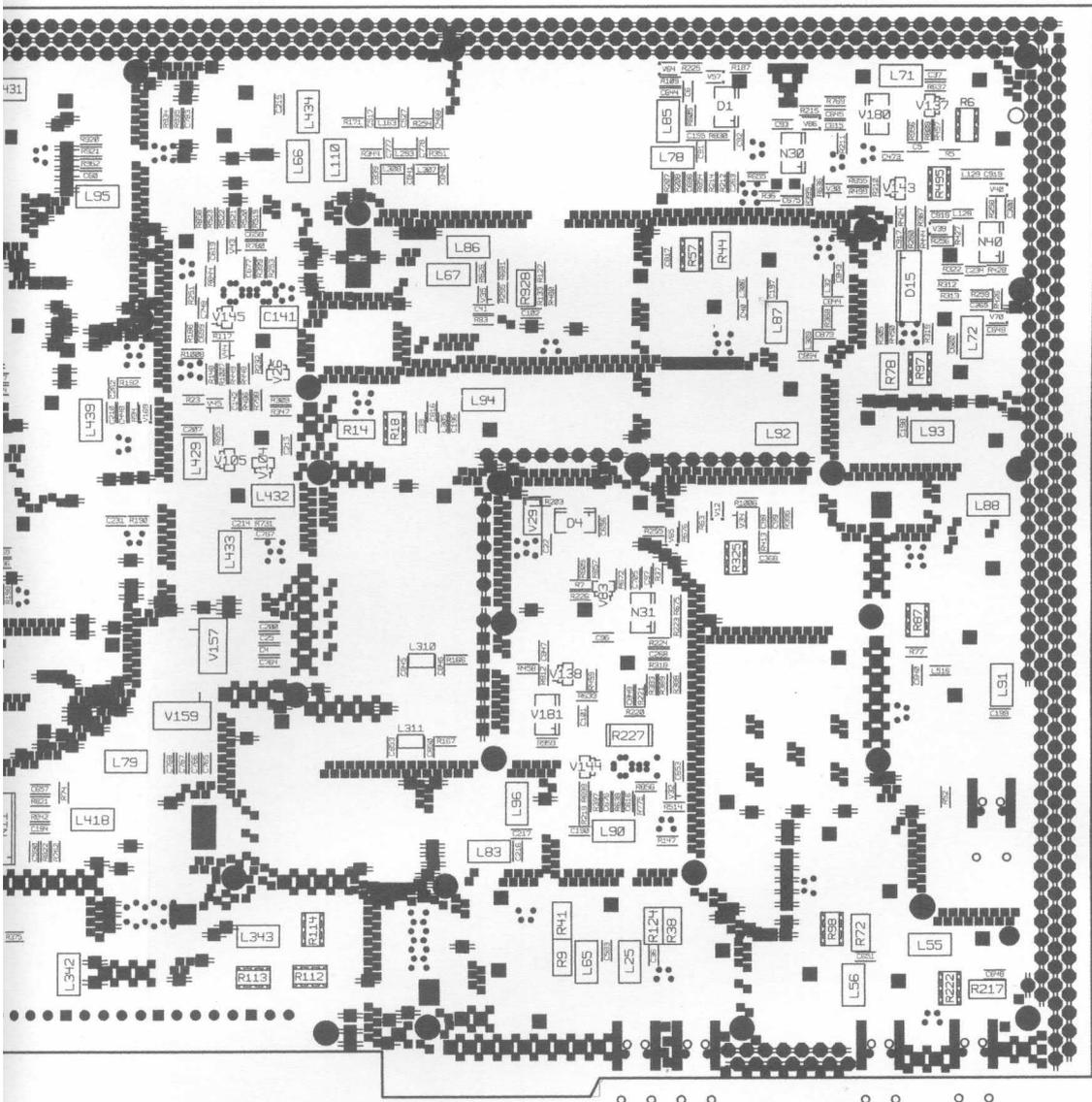
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	Datum: 99-06-19 Zeichnung: 1GPK Name: HOFBERGE	Zeichn. Nr.: 1084.9600.01 D



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

BINDENDE ANGABEN LIEFERN VARIANTEN,
TRIMMIERTE, BAUTEILLIERTE UND NICHT
BESTECKTE BAUTEILE SIEHE SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENT VALUES AND
NON-FITTED COMPONENTS SEE PARTS LIST.

ROHDE & SCHWARZ
Typ: SM10
Zust: 1084.8004
Datei: 99-06



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

BINDENDE ANGABEN LIEFERN VARIANTEN,
TRIMMIERTE, BAUTEILWERTE UND NICHT
BESTÜCKTE BAUTEILE SIEHE SA.
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TRIMMING AND COMPONENT VALUES AND
NON-FITTED COMPONENTS SEE PARTS LIST.

ROHDE & SCHWARZ		Bezeichnung: 6-GHZ-ERWEITERUNG 6-GHZ-EXTENSION		Sprache: de		Blatt / von: 2-	
Typ: SM10	Datum: 99-08-19	Abteilung: 1GPK	Name: HOFFBERGE	Zeichn.Nr. / Drawing No.: 1084.9600.01 D			
1.Z.: 1084.8004							