



ROHDE & SCHWARZ

SERVICEUNTERLAGEN

Ausgangsteil 1.5 GHz

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SMT

.04

.97

Siehe 1038, 7909.xx

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7. Prüfen und Instandsetzen der Baugruppe

7.1 Funktionsbeschreibung

Sie bezieht sich auf das Ausgangsteil 1.5 GHz und das NF-Teil, da beide Baugruppen eine Funktionseinheit bilden und eine getrennte Beschreibung nicht sinnvoll ist.

Das Ausgangsteil 1.5 GHz erhält von der Summierschleife (Eingang FSUM, 6 dBm ... 9 dBm) das RF-Signal im Bereich $93.75 \text{ MHz} < f \leq 1500 \text{ MHz}$. Dieses RF-Signal wird über einen Amplitudenmodulator und ein Amplitudenstellglied auf schaltbare Tiefpaßfilter gegeben. Im Signalzweig wird durch Umschalter der Ausgangsfrequenzbereich 5 kHz ... 93.75 (130.7) MHz durch Abmischen mit einem 600 MHz-LO realisiert.

Die Baugruppe enthält folgende Funktionseinheiten:

- Einen AM-Modulator zur Pegelregelung und Amplitudenmodulation,
- einen AM-Modulator zur Pegelvoreinstellung (LEVEL PRESET),
- schaltbare Tiefpässe zur Unterdrückung von Harmonischen,
- einen Mischer mit LO-, RF- und ZF-Filtern,
- einen Pegeldetektor im RF-Zweig vor dem Mischer,
- einen Ausgangsverstärker,
- einen Pegeldetektor am Ausgang FOPU1,
- einen Signalzweig zur Aufbereitung des RF-Pegelsollwertes incl. der Amplitudenmodulation,
- die RF-Pegelregelung,
- einen LF-Generator,
- eine serielle Schnittstelle und
- eine Schaltung zur Diagnoseauswahl.

Im weiteren Text enthaltene Pegelangaben gelten für einen Geräteausgangspegel von +13 dBm.

7.1.1 RF-Signalverarbeitung

Dem Eingang X101 FSUM ist ein Dämpfungsglied zur Temperaturkompensation nachgeschaltet. Anschließend folgt der AM MODULATOR. Er ist das Stellglied der Pegelregelung im Bereich $f \leq 1.5 \text{ GHz}$. Beim SME 03 wird bei Frequenzen $> 1.5 \text{ GHz}$ die Ansteuerspannung auf einen festen Wert geschaltet, der AM MODULATOR ist dann auf minimale Dämpfung gesteuert.

Das RF-Signal wird durch RF AMPLIFIER 1 und RF AMPLIFIER 2 verstärkt und auf den PIN-Modulator LEVEL PRESET gegeben. Dieser Modulator wird durch gespeicherte Kalibrierdaten mittels D/A-Wandler so eingestellt, daß das Stellglied der Pegelregelung in einem optimalen Arbeitspunkt betrieben werden kann (vergl. Bedienhandbuch "Kalibrierung LEV PRESET").

Das RF-Signal wird durch den RF AMPLIFIER 3 verstärkt und auf schaltbare Tiefpässe HARMONIC FILTERS gegeben. Diese werden abhängig von der Eingangsfrequenz an X101 FSUM durch den Rechner eingeschaltet. Die Tiefpässe TP0 bis TP3 sind wie die Tiefpässe TP4 bis TP8 in Kette geschaltet. Filter in der Kette mit höherer Grenzfrequenz als die Grenzfrequenz des gewählten Tiefpasses bleiben eingeschaltet.

Im "Normalbetrieb" wird das RF-Signal über PIN-Schalter (V720, V725, V730, V735), den RF AMPLIFIER 5 und den GaAs-Umschalter D760

auf den Ausgangsverstärker gegeben. Im "Mischerbetrieb" wird das RF-Signal über PIN-Schalter (V725, V707) und den RF AMPLIFIER 4 auf den Detektor vor dem Mischer geschaltet.

7.1.2 Mischer mit LO-, RF- und ZF-Filtern

Das RF-Signal vom Detektor vor dem Mischer wird über den RF-Tiefpaß und ein Dämpfungsglied zur Pegelanpassung auf den RF-Eingang des Mixers geschaltet (Pegel ca. -5 ... -10 dBm). Das Signal von REF600 wird auf ca. 17 dBm verstärkt und gelangt über einen Tiefpaß auf den LO-Eingang des Mixers. Über die ZF-Weiche, den ZF-Verstärker und den ZF-Tiefpaß wird das ZF-Signal auf den RF-Schalter (D760) vor dem Ausgangsverstärker geschaltet (1 kHz ... 93.75 (130.7) MHz, Pegel ca. 0 dBm).

Im Gerätefrequenzbereich zwischen 93.75 MHz und 130.7 MHz wird vom Rechner nur dann vom "Normalbetrieb" auf den "Mischerbetrieb" umgeschaltet, wenn der geforderte FM-Hub 62.5 kHz bzw. der geforderte Phasenhub 0.625 rad übersteigt. In dieser Betriebsart können Nebenwellen > -70 dBc auftreten.

7.1.3 Ausgangsverstärker

Der zweistufige Breitbandverstärker verstärkt das Eingangssignal um ca. 19 dB. Die Kollektorspannung der Endstufe wird geregelt, der Kollektorstrom kommt aus einer Stromquelle.

7.1.4 AM-Signalzweig und RF-Pegel-Sollwert

Durch den AM-Eingangs-Umschalter AM INPUT SELECT können Signale der Leitungen EXT1, INT1 und INT2 summiert und auf den D/A-Wandler zur Modulationsgradeinstellung gegeben werden, wobei bei EXT1 zwischen AC- und DC-Kopplung gewählt werden kann.

Zum AM-Signal wird eine Referenzspannung sowie das Signal CODAM (von Option SME-B11-DM-CODER, Amplitudenanteil der digitalen Modulation) addiert.

Das Summensignal gelangt auf zwei D/A-Wandler RFLEV1 und RFLEV2 auf dem NF-Teil. RFLEV1 ist der D/A-Wandler für den Pegelführungswert, der im normalen Betrieb eingeschaltet ist. Auf RFLEV2 kann bei schnellen elektronischen RF-Pegelwechseln bei digitalen Modulationsarten umgeschaltet werden.

7.1.5 RF-Pegelregelung

Der Pegeldetektor am Ausgang X108 FOPU1 wird bei Gerätefrequenzen > 9.3625 MHz verwendet. Der RF-Pegel an der Diode beträgt ca. +19 dBm. Die Linearisierungsschaltung ermöglicht einen Dynamikbereich von ca. 30 dB bei guter Linearität (wichtig für geringen AM-Klirrfaktor).

Der Pegeldetektor im RF-Zweig vor dem Mischer wird bei Gerätefrequenzen \leq 9.3625 MHz anstelle des Detektors am Ausgang X108 FOPU1 verwendet. Der RF-Pegel an der Diode beträgt ca. +15 dBm.

Die Pegelregelung erfolgt durch den PI-Regler N335 (NF-Teil). Der Führungswert wird von einem der beiden D/A-Wandler RFLEV1 oder RFLEV2 geliefert und mit dem Istwert von einem der drei Detektoren (VDET, VDETMIX oder VDDet vom Ausgangsteil 3 GHz) je nach Frequenzbereich verglichen. Die Ausgangsspannung des PI-Reglers

regelt das Amplitudenstellglied, und zwar den AM-Modulator auf dem Ausgangsteil 1.5 GHz oder bei Frequenzen > 1.5 GHz den AM-Modulator auf dem Ausgangsteil 3GHz (nur SME 03) nach.

Die 3dB-Bandbreite der Regelschleife wird durch AMSLOW von ca. 500 kHz auf ca. 100 kHz reduziert, wenn keine AM und kein RF-SWEEP eingeschaltet sind (dabei muß die Betriebsart LEVEL ALC BANDWIDTH AUTO eingestellt sein).

Durch Aktivieren von ALCOFF ist es möglich, den Pegel über den RFLEV-D/A-Wandler zu steuern (Betriebsart LEVEL ALC STATE OFF).

Das Aktivieren von KLEMM-N steuert den aktiven AM-Modulator auf maximale Dämpfung, dies wird z.B. bei Frequenzwechseln zur Vermeidung von Pegelspikes verwendet.

7.1.6 LF-Generator

Ein Wienbrückenoszillator erzeugt ein Sinussignal. 4 Frequenzen können gewählt werden. Die Ausgangsamplitude wird geregelt und kann mit R298 auf dem NF-Teil eingestellt werden.

7.1.7 serielle Schnittstelle

Die Baugruppe wird über den SERBUS-D-Baustein seriell angesteuert. Die Baugruppenadresse ist 3C (Subadresse 0) bzw. 3D (Subadresse 1). Die ankommenden Daten werden bei der Subadresse 0 in die Schieberegister D102, D110 und D120 und die D/A-Wandler LPRE, RFLEV1 und RFLEV2 auf dem NF-Teil und bei Subadresse 1 in das Schieberegister D20 und den AM-D/A-Wandler getaktet.

7.1.8 Schaltung zur Diagnoseauswahl

Über den Diagnosemultiplexer kann eine von 8 Gleichspannungen auf die Diagnoseleitung gelegt werden. Der Spannungswert wird im Gerätedisplay angezeigt (UTILITIES, DIAG, TPOINT).

| Einstellung am SME | Soll-Spannungsbereich | Hinweis |
|--------------------|-----------------------|---------------------------------------|
| DIAG - TPOINT 700 | 0 V ±10 mV | Referenz 10 kOhm nach Masse |
| DIAG - TPOINT 701 | 0 V ... 6 V | Detektorspannung Ausgang FOPU1 |
| DIAG - TPOINT 702 | 0 V ... 6 V | Detektorspannung Mischer |
| DIAG - TPOINT 703 | 0.2 V ... 2 V | RF-Pegel nach Filterbank |
| DIAG - TPOINT 704 | -6 V ... 0 V | Führungswert der Pegelregelung |
| DIAG - TPOINT 705 | -1 V ... 10 V | Ausgangsspannung des Regelverstärkers |
| DIAG - TPOINT 706 | -1 V ... 10 V | Steuerspannung des AM-Modulators |
| DIAG - TPOINT 707 | 2 V ... 13 V | Steuerspannung des Stellgliedes LPRE |

7.2 Meßgeräte und Hilfsmittel

- Servicekit 1039.3520
- Spektrumanalysator (z.B. FSBS)
- Oszilloskop (z.B. BOL)
- Gleichspannungsmeßgerät (Multimeter, z.B. UDL33)
- Netzwerkanalysator bis 3 GHz (z.B. HP 8753)
- Signalgenerator bis 1.5 GHz (z.B. SMGU)

7.3 Fehlersuche

Vor dem Öffnen des Gerätes ist es zweckmäßig, zuerst einmal die Kalibrierrountinen LEV PRESET und LEVEL zu starten und an Hand der Diagnosespannungen der Testpunkte 700 - 707 mögliche Fehlerquellen zu lokalisieren.

7.3.1 Fehler nur im Bereich $f \leq 9.3625$ MHz

| | |
|---------------------------|---|
| falscher RF-Pegel an X108 | Der Detektor im Mischbereich liefert eine falsche Spannung oder der PI-Regler auf dem NF-Teil wird nicht richtig angesteuert. Spannung VDETMIX mit Diagnose Nr. 702 prüfen. |
| schlechter AM-Klirrfaktor | Prüfe die Linearisierungsschaltung des Detektors. |

7.3.2 Fehler nur im Bereich $f \leq 93.75$ MHz

| | |
|---------------------------|---|
| falscher RF-Pegel an X108 | Eingang REF600, LO-Verstärker, ZF-Verstärker, RF-Verstärker 4 und die Ansteuerung MIXON-P und MIXON-N der Umschalter prüfen. |
| Oberwellen zu groß | Prüfe ZF-Verstärker, ZF-Tiefpaß und RF-Schalter D760. |
| Nebenwellen zu groß | Der Mischer ist defekt oder er wird mit zu hohem Pegel angesteuert (Sollpegel am Mischer-RF-Eingang < -5 dBm).. Prüfe ZF-Verstärker, ZF-Tiefpaß und RF-Schalter D760. Oder der RF-Tiefpaß ist defekt oder der LO-Verstärker liefert zu wenig Pegel (Sollpegel bei R640: +17 dBm). |

7.3.3 Fehler im Bereich $1 \text{ kHz} \leq f \leq 1500$ MHz

| | |
|-----------------------|--|
| kein RF-Pegel an X108 | Die Steuerspannung des AM-Modulators muß jetzt > 12 V sein, sonst arbeitet die Pegelregelung nicht richtig oder der Führungswert vom RFLEV1-D/A-Wandler ist falsch. Diagnose Nr. 703 (Pegel nach Filterbank) prüfen. Mit Spektrumanalysator mit RF-Tastkopf mit DC-Trennung die RF-Kette kontrollieren (die Sollverstärkungen einzelner Verstärkerstufen beträgt ca. 7 dB) |
|-----------------------|--|

| | |
|--|--|
| Oberwellen zu groß | Prüfe Filterbank und folgende RF-Verstärker-Kette, prüfe Arbeitspunkte der Verstärker und Arbeitspunktregelungen des Endverstärkers. |
| Pegelfehler bei der Geräteinstellung "LEVEL - ATTENUATOR MODE FIXED" | Prüfe Detektor und Linearisierungsschaltung. |
| Stör-Phasenmodulation bei AM zu groß | Prüfe die Ansteuerspannung des AM-Modulators und die Beschaltung. Kalibrierung LEV PRESET am Gerät durchführen. |
| AM-Klirrfaktor zu groß | Prüfung und Abgleich von Detektor und Linearisierungsschaltung, Kontrolle der AM SLOW-Ansteuerung. |

7.3.4 Spektrale Reinheit, $\Delta f < 10$ MHz vom Träger

| | |
|--|--|
| Seitenlinien in ca. 1 MHz Abstand vom Träger; bei blockierter Pegelregelung (ALC OFF) verschwinden diese | Pegel-Regelschleife schwingt; Prüfe Detektor und Linearisierungsschaltung. Kalibrierung LEV PRESET am Gerät durchführen. |
| Nebenlinien im Abstand kleiner 10 MHz auch bei Funktion ALC OFF | Operationsverstärker auf Eigenschwingung prüfen, Arbeitspunktregelung des Ausgangsverstärkers mit Oszilloskop prüfen. |

7.4 Prüfen und Abgleichen

Vorbemerkung: Neben den Kondensatoren C357, C360, C361, C412, C500, C635, C740, C743, C810, C815, den Widerständen R641, R761, R803 und den Schaltdioden V543, V544 und V520 befinden sich Massedurchkontaktierungen. An einer solchen Stelle kann ein Koaxialkabel eingelötet und über einen Koppelkondensator oder eine externe DC-Trennung ein Meßgerät (z.B. Netzwerk- oder Spektrumanalysator) angeschlossen werden. Hierzu wird das Koaxialkabel durch das Loch gesteckt, der Außenleiter des Koaxialkabels an der Durchkontaktierung und der Innenleiter am gewünschten Anschlußfleck des Kondensators angelötet.

Zum Servicebetrieb wird anstelle der Baugruppe der Serviceadapter in den Steckplatz eingesetzt und anschließend die Baugruppe auf den Adapter gesteckt. Nachdem die HF-Verbindungen hergestellt worden sind, ist die Baugruppe wieder betriebsbereit.

7.4.1 Prüfen der Datenübertragung

Die Prüfung wird bei den in der Tabelle angegebenen Einstellungen am Gerät durchgeführt.

- ▶ Prüfung der Spannungen an D20:
"1" = +5 V, "0" = 0 V

| Einstellung am SME | Logischer Zustand an D20 | | | | Hinweis |
|--------------------|--------------------------|-------|-------|-------|-------------------|
| | Pin14 | Pin13 | Pin12 | Pin11 | |
| AM INT LFGEN2 | 1 | 0 | 0 | 0 | AM SOURCE EXT OFF |
| AM INT LFGEN1 | 0 | 1 | 0 | 0 | AM SOURCE EXT OFF |
| AM EXT1 DC | 0 | 0 | 1 | 0 | AM SOURCE INT OFF |
| AM EXT1 AC | 0 | 0 | 0 | 1 | AM SOURCE INT OFF |

7.4.2 Abgleich des Komparators an EXT1

- Einstellung: **AM SOURCE EXT1**
AM EXT COUPLING AC
- ▶ An den Geräteeingang EXT1 ein NF-Signal $f = 1 \text{ kHz}$ mit der Amplitude $U = 1.021 \text{ V}$ anlegen.
- ▶ Pot R216 so abgleichen, daß gerade die EXT1-HIGH-Anzeige auf der Frontplatte aufleuchtet.
- ▶ Test: R216 ist dann richtig abgeglichen, wenn bei Erhöhung der Eingangsspannung an EXT1 von 1.020 V auf 1.021 V die Anzeige EXT1-HIGH im Display aufleuchtet.

7.4.3 Abgleich des NF-Generators LFGEN1

- Einstellung: **LF OUTPUT STATE ON**
LF OUTPUT SOURCE LFGEN1

| LF-Frequenz am SME | GINTFREQ-1 D110/12 | GINTFREQ-0 D110/13 | Hinweis auf dem NF-Teil |
|--------------------|-----------------------|-----------------------|----------------------------|
| 0.4 kHz | 0 | 0 | 400 Hz \pm 3% |
| 1 kHz | 0 | 1 | 1 kHz \pm 3% |
| 3 kHz | 1 | 0 | 3 kHz \pm 3% |
| 15 kHz | 1 | 1 | 15 kHz \pm 3% |

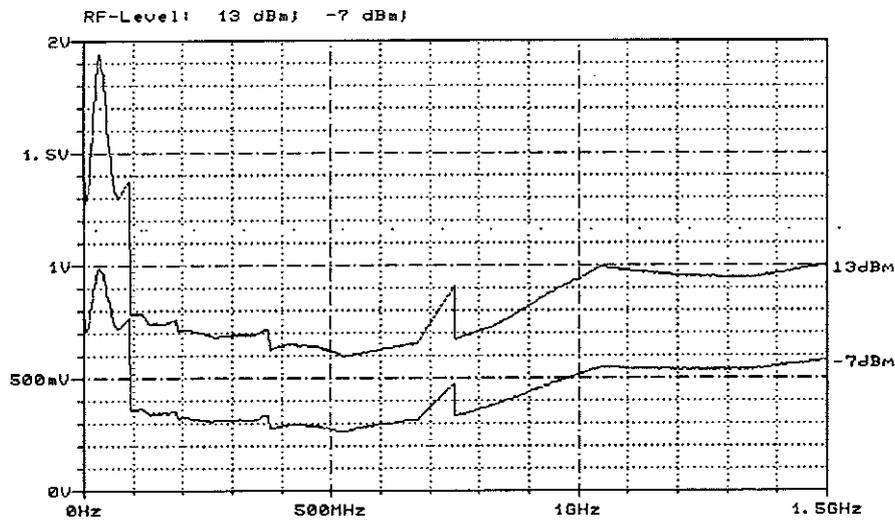
- An den Geräteausgang LF ein NF-Voltmeter mit hochohmigem Eingang anschließen.
- ▶ Mit Pot R298 (NFTEIL) ist die Amplitude auf $1 \text{ V} \pm 2 \text{ mV}$ einzustellen.
- An den Geräteausgang LF über einen Serienwiderstand von 150Ω einen Spektrumanalysator anschließen (Lastwiderstand des LF-Generators $\geq 200 \Omega$).
- ▶ Der Oberwellenabstand muß $< -60 \text{ dBc}$ sein.

7.4.4 Prüfung der LEVEL PRESET-Einstellung

- Den Geräteausgang RF 50Ω mit 50Ω abschließen.
- ▶ Über die Diagnose Nr. 707 kann die LEVEL PRESET-Spannung gemessen werden.
Die Spannung ist abhängig von der RF-Frequenz, vom RF-Pegel und von gespeicherten Kalibrierdaten. Der Rechner sendet die berechneten Werte in den LPRE-D/A-Wandler.

- Beim RF-Pegel 13 dBm wird OUTPUT: AMODE FIXED eingestellt, um elektronisch 20 dB abzuregeln.

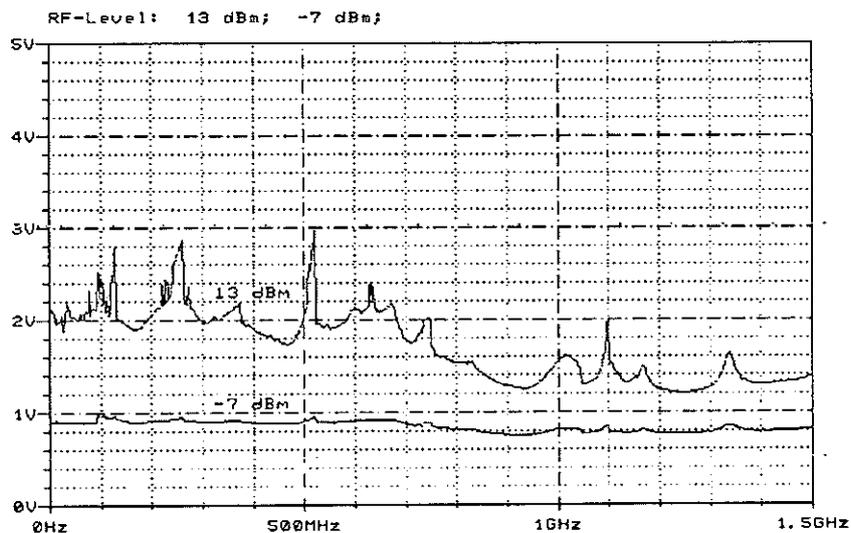
Typische Spannungswerte sind in folgender Abbildung dargestellt:



7.4.5 Prüfung des Regelverstärkers

- Den Geräteausgang RF 50Ω mit 50Ω abschließen.
- ▶ Über die Diagnose Nr. 705 kann die Ausgangsspannung des Regelverstärkers gemessen werden. Die Spannung ist abhängig von der RF-Frequenz und vom RF-Pegel und von gespeicherten Kalibrierdaten.

Typische Spannungswerte sind in folgender Abbildung dargestellt:

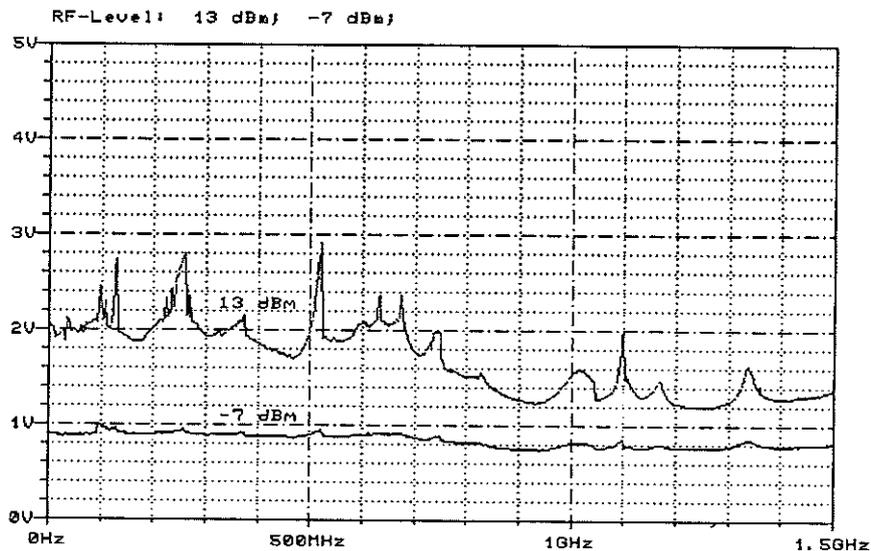


7.4.6 Prüfung des AM-Modulator-Arbeitspunktes

- Den Geräteausgang RF 50Ω mit 50Ω abschließen.

- Über die Diagnose Nr. 706 kann die Steuerspannung des AM-Modulators auf dem Ausgangsteil 1.5 GHz gemessen werden. Bei RF-Frequenzen > 1.5 GHz (nur SME 03) wird der AM-Modulator auf dem Ausgangsteil 1.5 GHz auf Minimaldämpfung gesteuert.
- Beim RF-Pegel 13 dBm wird OUTPUT: AMODE FIXED eingestellt, um elektronisch 20 dB abzuregeln.

Typische Spannungswerte sind in folgender Abbildung dargestellt:



7.4.7 Prüfung der Arbeitspunkte der Verstärkerstufen

| Prüfpunkt (TPOINT) | Sollspannung | Bemerkung |
|--------------------|--------------|------------------|
| N300/3 | 4.80 ± 0.8V | RF AMPLIFIER 1 |
| N360/3 | 4.80 ± 0.8V | RF AMPLIFIER 2 |
| N410/3 | 4.80 ± 0.8V | RF AMPLIFIER 3 |
| V602 Kollektor | 8.80 ± 0.3V | RF AMPLIFIER 4 |
| N620/3 | 5.50 ± 0.3V | LO AMPLIFIER |
| V612 Kollektor | 5.90 ± 0.3V | IF AMPLIFIER |
| N740/3 | 4.80 ± 0.8V | RF AMPLIFIER 5 |
| N820/3 | 6.30 ± 0.3V | DRIVER |
| V822 Kollektor | 16.60 ± 0.3V | OUTPUT AMPLIFIER |

7.4.8 Prüfung der Ansteuerung der Filterbank

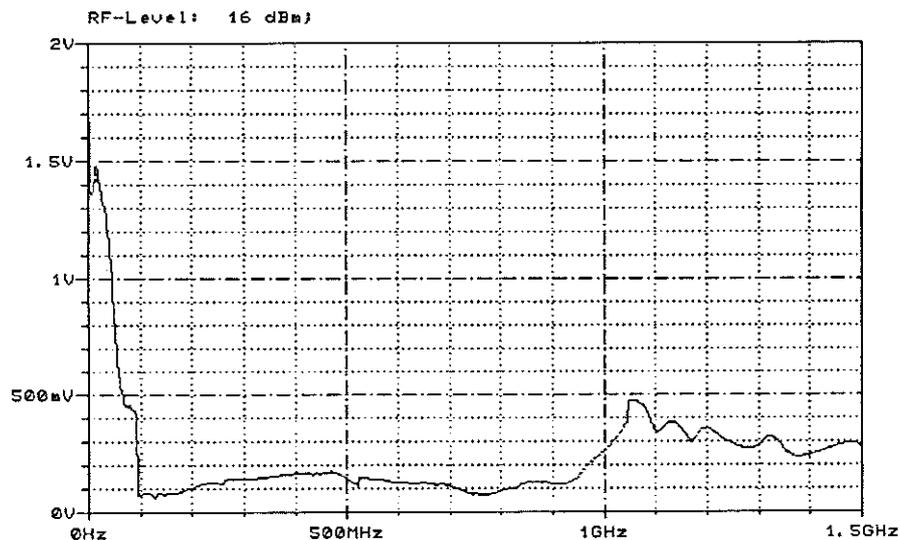
- Prüfung von LPSELECT-0 ... LPSELECT-3 am Stecker X1 NF-Teil und der Schaltleitungen TP0 ... TP8 auf dem Ausgangsteil bei gegebener Frequenzeinstellung am SME

| RF-Frequenz am SME | LPSELECT- | | | | Hinweis auf dem NF-Teil |
|--------------------|-------------|-------------|-------------|-------------|----------------------------|
| | 3 D110/7 | 2 D110/6 | 1 D110/5 | 0 D110/4 | |
| 1500.00 MHz | 0 | 0 | 0 | 0 | Tiefpaß 0 |
| 1045.60 MHz | 0 | 0 | 0 | 1 | Tiefpaß 1 |
| 750.00 MHz | 0 | 0 | 1 | 0 | Tiefpaß 2 |
| 522.80 MHz | 0 | 0 | 1 | 1 | Tiefpaß 3 |
| 375.00 MHz | 0 | 1 | 0 | 0 | Tiefpaß 4 |
| 261.40 MHz | 0 | 1 | 0 | 1 | Tiefpaß 5 |
| 187.50 MHz | 0 | 1 | 1 | 0 | Tiefpaß 6 |
| 130.70 MHz | 0 | 1 | 1 | 1 | Tiefpaß 7 |
| 93.75 MHz | 0 | 0 | 1 | 0 | Tiefpaß 2, Mischerbereich |

7.4.9 Prüfung des RF-Pegels nach der Filterbank

- Den Geräteausgang RF 50Ω mit 50Ω abschließen.
- Einstellung: RF LEVEL 16 dBm
- ▶ Über die Diagnose Nr. 703 kann die gleichgerichtete HF-Spannung gemessen werden.

Typische Spannungswerte sind in folgender Abbildung dargestellt:



7.4.10 Abgleich der ZF-Verstärkung

- Spektrumanalysator an Geräteausgang RF 50Ω anschließen
- Einstellung: FREQUENCY 9.362501 MHz
LEVEL 13 dBm
LEVEL UCOR STATE OFF
- ▶ RF-Signal messen, RF-Pegel merken
- ▶ RF-Frequenz um 1 Hz erniedrigen
- ▶ Mit Pot R645 den RF-Pegel auf den gleichen Wert einstellen
- ▶ Nach dem Abgleich müssen die Kalibrierroutinen LEVEL und LEV PRESET aufgerufen werden.

7.4.11 Abgleich der ZF-Detektor-Linearität

Einstellung: FREQUENCY 9.3625 MHz
 LEVEL 10 dBm

- ▶ Ausgangspegel am RF-Ausgang des Gerätes messen und merken (= Referenzpegel)
- Einstellung: LEVEL - ATTENUATOR MODE FIXED
 LEVEL -10 dBm
- ▶ Mit POT R619 so abgleichen, daß der gemessene Pegel 20 dB unter dem zuvor gemessenen Referenzpegel liegt.
- ▶ Abgleich einmal wiederholen, da sich der Referenzwert mit R619 geringfügig ändert; die Genauigkeit der 20dB-Absenkung soll nach dem Abgleich ± 0.1 dB erreichen.

7.4.12 Abgleich der Detektor-Linearität am Ausgang FOPU1

Einstellung: FREQUENCY 1 GHz
 LEVEL 10 dBm

- ▶ Ausgangspegel am RF-Ausgang des Gerätes messen und merken (= Referenzpegel)
- Einstellung: LEVEL - ATTENUATOR MODE FIXED
 LEVEL -10 dBm
- ▶ Mit POT R851 so abgleichen, daß der gemessene Pegel 20 dB unter dem zuvor gemessenen Referenzpegel liegt.
- ▶ Abgleich einmal wiederholen, da sich der Referenzwert mit R851 ändert; die Genauigkeit der 20dB-Absenkung soll nach dem Abgleich ± 0.1 dB erreichen.

7.4.13 Abgleich des AM-Modulationsgrades

Einstellung: Instr PRESET
 LEVEL 7 dBm
 AM DEPTH 100%
 AM SOURCE EXT EXT1
 AM EXT COUPLING DC
 UTILITIES DIAG TPOINT STATE ON
 TEST POINT 704

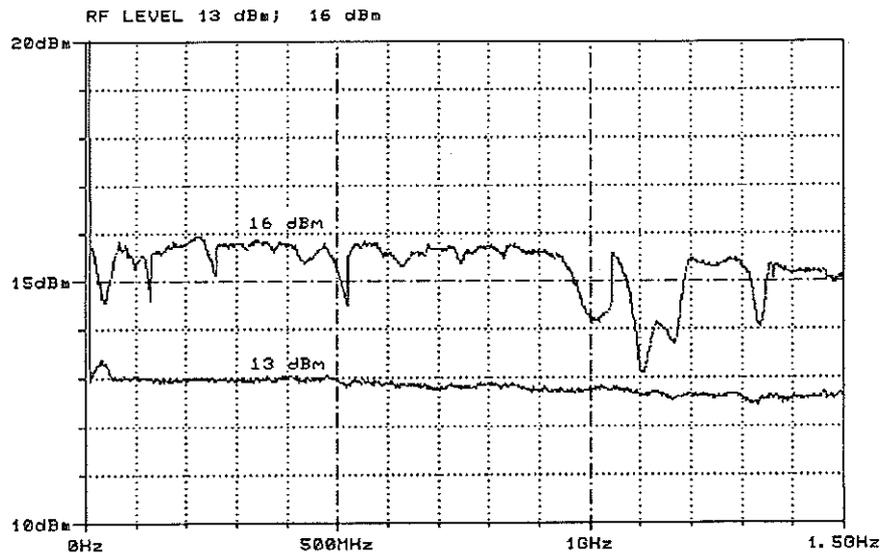
- Eine Gleichspannung $U = -1.000$ V am Geräteeingang EXT1 anlegen.
- ▶ Mit POT R214 auf eine Diagnosespannung $U_{diag} = 0$ V abgleichen.

7.4.14 Prüfen des maximalen Ausgangspegels

• Einstellung: RF-SWEEP ON
 START FREQ 1 MHz
 STOP FREQ 1.5 GHz
 STEP LIN 0.22 MHz
 DWELL 22 ms
 SPACING LIN
 MODE AUTO
 LEVEL 16 dBm

- ▶ An X108 FOPU1 einen Spektrumanalysator anschließen.

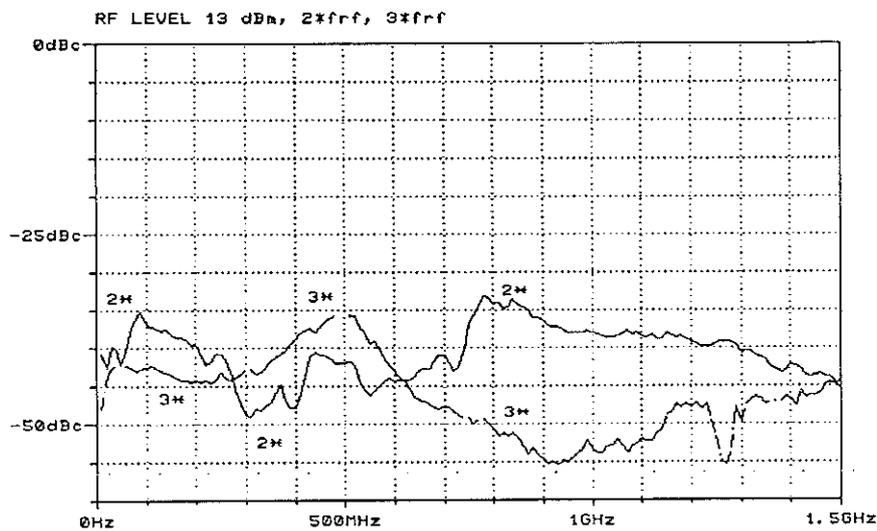
Typische Pegelwerte sind in folgender Abbildung dargestellt:



7.4.15 Prüfen des Oberwellenabstandes

- Einstellung: LEVEL 13 dBm
- ▶ An X108 FOPU1 einen Spektrumanalysator anschließen.
- ▶ Der Pegel der Harmonischen muß < -30 dBc sein.

Typische Meßwerte für $2 \cdot f_{RF}$ und $3 \cdot f_{RF}$ sind in folgender Abbildung dargestellt:



7.4.16 Prüfen des Nebenwellenabstandes

- Einstellung: FREQUENZ 93 MHz
 LEVEL 13 dBm
- ▶ An X108 FOPU1 einen Spektrumanalysator anschließen.
- ▶ Nebenwellen bei folgenden Frequenzen prüfen:
693 MHz, 1386 MHz, 600 MHz, 1200 MHz, 1800 MHz, 507 MHz, 414 MHz, 321 MHz, 228 MHz, 135 MHz, 42 MHz und 51 MHz.

► Der Pegel der Nebenwellen muß < -80 dBc sein.

7.5 Zerlegung und Zusammenbau

Nach dem Öffnen des Gerätes, dem Entriegeln der Baugruppen-
sicherung durch Lösen der Schrauben an den Seiten des Motherboards
und dem Lösen der Koaxial-Verbindungen an X101, X106, X108 und
X108 kann die Baugruppe aus ihrem Steckplatz entnommen werden.
Die Schirmdeckel der Baugruppe sind normal verschraubt.
Das NF-Teil ist mit 4 Schrauben auf dem Ausgangsteil 1.5 GHz
befestigt. Nach dem Lösen dieser Schrauben kann man das NF-Teil
aus dem Stecker X1 pressen, indem man die Schraubenköpfe gegen die
Lötseite der Ausgangsteils 1.5 GHz drückt.

7.6 Externe Schnittstellen

| Pin | Name | Ein/Ausgang | Herkunft/Ziel | Wertebereich | Signalbeschreibung |
|--------------------|-------------|-------------|----------------|------------------------------------|------------------------------|
| X10A.01 | BLANK | Eingang | A3, CPU | HCMOS-Pegel | RF-Pegelaustastung |
| X10A.04 | EXT1 | Eingang | A3, FRO | -15 V bis 15 V | externer AM-Eingang |
| X10A.05 | EXT2 | Eingang | A3, FRO | -15 V bis 15 V | externer AM-Eingang |
| X10A.06 | INT1 | Eingang | A5, MGEN/LFGEN | -15 V bis 15 V | interner AM-Eingang |
| X10A.07 | INT2 | Eingang | A5, MGEN/LFGEN | -15 V bis 15 V | interner AM-Eingang |
| X10A.08 | VDAM | Ausgang | A11, OPU3 | 0.5 V bis 10 V | Steuerspannung AM MODULATOR |
| X10A.09 | CODAM | Eingang | A8, DSYN | -1 V bis 1 V | Amplitudenanteil digit. Mod. |
| X10A.12 | SERBUS-CLK | Eingang | A3, CPU | HCMOS-Pegel | Serbus-Clock |
| X10A.14 X10A.15 | SERBUS-DAT | bidir. | A3, CPU | HCMOS-Pegel | Serbus-Daten |
| X10A.16 | SERBUS-SYNC | Eingang | A3, CPU | HCMOS-Pegel | Serbus-Synchronisation |
| X10A.17 | SERBUS-INT | Ausgang | A3, CPU | HCMOS-Pegel | Serbus-Interrupt |
| X10A.18 | RES-P | Eingang | A3, CPU | HCMOS-Pegel | Serbus-Reset |
| X10A.19 | DIAG-5V | Ausgang | A3, CPU | -5 V...5 V | Diagnose |
| X10A.22 X10B.22 | VA24-P | Eingang | A2, POWS1 | 23.4 V...24.6 V 122 ± 5 mA | Versorgungsspannung analog |
| X10A.24 X10B.24 | VA15-P | Eingang | A2, POWS1 | 14.80 V...15.75 V 700 ± 50 mA | Versorgungsspannung analog |
| X10A.28 X10B.28 | VD-5P | Eingang | A2, POWS1 | 5.10 V...5.25 V 22 ± 3 mA | Versorgungsspannung digital |
| X10A.30 X10B.30 | VA15-N | Eingang | A2, POWS1 | -15.75 V...-14.85 V 186 ± 10 mA | Versorgungsspannung analog |
| X10A.32 | LSWI | Eingang | A8, DSYN | HCMOS-Pegel | Level Switch |

| | | | | | |
|---------|--------|---------|-------------|-------------|------------------------------|
| X10B.06 | GOUT | Ausgang | A5, MGEN | ±1 V | LF-Generator |
| X10B.14 | ALARM | Ausgang | Testausgang | HCMOS-Pegel | Fehler in Pegelregelung |
| X10B.15 | WR1 | Ausgang | Testausgang | HCMOS-Pegel | Writesignal nach SERBUS |
| X10B.16 | CLK1 | Ausgang | Testausgang | HCMOS-Pegel | Clocksignal nach SERBUS |
| X10B.17 | DATA | Ausgang | Testausgang | HCMOS-Pegel | Datensignal nach SERBUS |
| X10B.18 | WR2 | Ausgang | Testausgang | HCMOS-Pegel | Writesignal nach SERBUS |
| X10B.19 | CLK2 | Ausgang | Testausgang | HCMOS-Pegel | Clocksignal nach SERBUS |
| X101 | FSUM | Eingang | A9, SUM | | 6 dBm ... 9 dBm RF-Eingang |
| X105 | REF600 | Eingang | A7, REFSS | | 10 dBm ± 1 dB, 600 MHz |
| X108 | FOPU1 | Ausgang | A11, OPU3 | 0...20 dBm | RF-Ausgang 5 kHz bis 1.5 GHz |
| X119 | VDDDET | Eingang | A11, OPU3 | 1 V...10 V | Detektor-Ausgangsspannung |



ROHDE & SCHWARZ

SERVICE INSTRUCTIONS

Output Module 1.5 GHz

1038.7780.06

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7. Checking and Repair of the Module

7.1 Functional Description

This section describes the output module 1.5 GHz and the LF module. Both modules form a function unit, which is why an individual description for each of the modules is not helpful.

The output module 1.5 GHz is stimulated with the RF signal in the range $93.75 \text{ MHz} < f \leq 1500 \text{ MHz}$ by the summing loop (input FSUM, 6 dBm to 9 dBm). This RF signal is passed via an amplitude modulator and an amplitude control circuit to switchable harmonic filters. The output frequency range of 5 kHz to 93.75 (130.7) MHz is realized in the signal path via changeover switches by means of downconversion with a 600-MHz LO.

The module consists of the subsequent function units:

- A first AM modulator for level control and amplitude modulation,
- a second AM modulator for level presetting (LEVEL PRESET),
- switchable harmonic filters,
- a mixer with LO, RF and IF filters,
- a level detector in the RF path preceding the mixer,
- an output amplifier,
- a level detector at the output FOPU1,
- a signal path for processing the nominal value of the RF level incl. the amplitude modulation,
- the RF level control
- a LF generator,
- a serial interface and
- a circuit for diagnostic selection.

Further information on levels apply for an instrument output level of +13 dBm.

7.1.1 RF Signal Processing

The input X101 FSUM is followed by an attenuator for temperature compensation. The attenuator is followed by the first AM MODULATOR. It is used as a control element for ALC in the range $f \leq 1.5 \text{ GHz}$. In case of the SME 03 with frequencies $> 1.5 \text{ GHz}$, the control voltage is switched to a fixed value, the first AM MODULATOR is then set to minimum attenuation.

The RF signal is amplified by RF AMPLIFIER 1 and RF AMPLIFIER 2 and passed to the second AM modulator LEVEL PRESET. This modulator is set by means of stored calibration data via a D/A converter in such a manner that the control circuit for level control can operate in an optimum operating point. (cf. operating manual "Calibration LEV PRESET").

The RF signal is amplified by the RF AMPLIFIER 3 and routed to switchable HARMONIC FILTERS. These filters are switched on by the controller depending on the input frequency at X101 FSUM. Similar to the lowpasses TP4 to TP8, the lowpasses TP0 to TP3 are cascaded. Filters in the cascade which have a higher cutoff frequency than the cutoff frequency of the lowpass selected remain switched on. In "normal operation", the RF signal passes via PIN switches (V720, V725, V730, V735), the RF AMPLIFIER 5 and the GaAs

switch D760 to the output amplifier. In "mixer operation" the RF signal is passed via the PIN switches (V725, V707) and the RF AMPLIFIER 4 to the detector preceding the mixer.

7.1.2 Mixer with LO, RF and IF Filters

The RF signal supplied by the detector preceding the mixer passes through the RF lowpass and an attenuator to the RF input of the mixer (level approx. -5 to -10 dBm). The signal of REF600 is amplified to approx. 17 dBm and passes via a lowpass to the LO input of the mixer. The IF signal reaches the RF switch (D760) preceding the output amplifier via the IF diplexer, the IF amplifier and the IF lowpass (1 kHz to 93.75 (130.7) MHz, level approx. 0 dBm).

In the instrument frequency range between 93.75 MHz and 130.7 MHz, the controller only switches over from "normal operation" to "mixer operation", when the FM deviation exceeds 62.5 kHz or when the phase deviation exceeds 0.625 rad. In this operating mode, spurious signals > -70 dBc may occur.

7.1.3 Output Amplifier

The two-stage broadband amplifier amplifies the input signal by approx. 19 dB. The collector voltage of the output stage is regulated, the collector current is supplied by a current source.

7.1.4 AM Signal and Nominal Value of RF Level

Signals of the lines EXT1, INT1 and INT2 can be summed up by the AM INPUT SELECT unit and are passed to the D/A converter for setting the modulation depth. AC or DC coupling can be selected for EXT1.

A reference voltage and the signal CODAM (of option SME-B11-DM-CODER, amplitude portion of digital modulation) are added to the AM signal.

The sum signal passes to two D/A converters RFLEV1 and RFLEV2 on the LF Module. RFLEV1 is the D/A converter for the reference level, which is switched on in normal operation. RFLEV2 can be switched on in case of fast electronic RF level changes with digital modulation.

7.1.5 RF Level Control

The level detector at the output X108 FOPU1 is used with instrument frequencies > 9.3625 MHz. The RF level at the diode is approx. +19 dBm. The linearization circuit allows for a dynamic range of approx. 30 dB with good linearity (important for low AM distortion).

The level detector in the RF path preceding the mixer is used with instrument frequencies \leq 9.3625 MHz instead of the detector at the output X108 FOPU1. The RF level at the diode is approx. +15 dBm.

The level is controlled by the Integrator N335 (LF Module). The reference value is supplied by one of the two D/A converters RFLEV1 or RFLEV2 and compared to the actual value of one of the three detectors (VDET, VDETMIX or VDET from the output module 3 GHz) according to the frequency range. The output voltage of the integrator adjusts the amplitude control circuit, i.e., the first

AM modulator on the output module 1.5 GHz or, with frequencies > 1.5 GHz, the AM modulator on the output module 3 GHz (SME 03 only).

In the operating mode LEVEL ALC BANDWIDTH AUTO, the 3-dB bandwidth of the control loop is reduced by AMSLOW from approx. 500 kHz to approx. 100 kHz, if no AM and no RF-SWEEP is switched on.

Activating ALCOFF allows for controlling the level via the RFLEV D/A converter with the ALC loop open (operating mode LEVEL ALC STATE OFF).

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

7.1.6 LF Generator

A Wien oscillator generates the sinewave signal. Four frequencies can be selected. The output amplitude can be set by means of R298 on the LF Module.

7.1.7 Serial Interface

The module is serially controlled via the SERBUS-D component. The module address is 3C (subaddress 0) or 3D (subaddress 1). The incoming data are clocked at the subaddress 0 into the shift registers D102, D110 and D120 and the D/A converters LPRE, RFLEV1 and RFLEV2 on the LF Module and at the subaddress 1 into the shift register D20 and the AM D/A converter.

7.1.8 Circuit for Diagnostics Selection

One of eight DC voltages can be applied to the diagnostic line via the diagnostic multiplexer. The voltage value is displayed on the instrument (UTILITIES, DIAG, TPOINT).

| Setting on SME | Nominal voltage range | Note |
|-------------------|-----------------------|---|
| DIAG - TPOINT 700 | 0 V \pm 10 mV | 10-kOhm reference to ground |
| DIAG - TPOINT 701 | 0 V ... 6 V | Detector voltage output FOPU1 |
| DIAG - TPOINT 702 | 0 V ... 6 V | Detector voltage mixer |
| DIAG - TPOINT 703 | 0.2 V ... 2 V | RF level to filter-bank |
| DIAG - TPOINT 704 | -6 V ... 0 V | Reference value of level control |
| DIAG - TPOINT 705 | -1 V ... 10 V | Output voltage of the control amplifier |
| DIAG - TPOINT 706 | -1 V ... 10 V | Control voltage of the AM modulator |
| DIAG - TPOINT 707 | 2 V ... 13 V | Control voltage of the control element LPRE |

7.2 Measuring Equipment and Accessories

- Servicekit 1039.3520
- Spectrum analyzer (e.g., FSBS)
- Oscilloscope (e.g., BOL)
- DC power meter (multimeter, e.g., UDL33)
- Network analyzer up to 3 GHz (e.g., HP 8753)
- Signal generator up to 1.5 GHz (e.g., SMGU)

7.3 Troubleshooting

Before opening the instrument, it is useful to start the calibration routines LEV PRESET and LEVEL and localize possible error sources using the diagnostic voltages of the test points 700 to 707.

7.3.1 Errors Occurring only in the Range $f \leq 9.3625$ MHz

- Incorrect RF level at X108** Either the detector in the mixed range supplies an incorrect voltage or the integrator on the LF Module is not controlled correctly. Check voltage VDETMIX using diagnostic No. 702.
- Bad AM distortion** Check the linearization circuit of the detector.

7.3.2 Errors Occurring only in the Range $f \leq 93.75$ MHz

- Incorrect RF level at X108** Check input REF600, LO amplifier, IF amplifier, RF amplifier 4 and MIXON-P and MIXON-N of the changeover switch
- Check input REF600, LO amplifier, IF amplifier, RF amplifier 4 and the control MIXO -P and MIXON-N of the changeover switch
- Check IF amplifier, IF lowpass and RF switch D760.
- Spurious signals too high** The mixer is either faulty or its input level is too high (nominal level at the mixer-RF input < -5 dBm). Check IF amplifier, IF lowpass and RF switch D760. Or the RF lowpass is faulty or the LO amplifier supplies insufficient level (nominal level at R640: $+17$ dBm).

7.3.3 Errors Occuring in the Range $1 \text{ kHz} \leq f \leq 1500$ MHz

- No RF level at X108** The control voltage of the AM modulator must now be > 12 V, otherwise, the level control does not work correctly or the reference value of RFLEV1-D/A converter is incorrect. Check Diagnostic No. 703. Check the RF signal path using a spectrum analyzer with RF probe providing DC isolation (the gain of the amplifier stages is approx. 7 dB)

| | |
|---|--|
| Harmonics too high | Check harmonic filters and subsequent RF amplifiers, check operating points of the amplifiers and operating point control circuit of the output amplifier. |
| Level error with instrument setting "LEVEL - ATTENUATOR MODE FIXED" | Check detector and linearization circuit. |
| Incidental phase modulation with AM too high | Check the control voltage of the first AM modulator and the circuitry. Perform LEV PRESET calibration. |
| AM distortion too high | Adjust and check detector, linearization circuit, and AM SLOW control. |

7.3.4 Spectral Purity, Offset Frequency < 10 MHz from the Carrier Frequency

| | |
|--|---|
| Spurious signals at approx. 1 MHz from carrier; they disappear, when the ALC OFF Mode is disabled. | ALC loop oscillates. Check detector and linearization circuit. Perform LEV PRESET calibration. |
| Spurious signals < 10 MHz from carrier with ALC OFF Mode enabled | Check oscillation of operational amplifiers, check operating point control circuit of the output amplifier. |

7.4 Checking and Adjustment

Hints: Ground via-holes have been fitted next to the capacitors C357, C360, C361, C412, C500, C635, C740, C743, C810, C815, the resistors R641, R761, R803 and the switching diodes V543, V544 and V520. A coaxial cable can be soldered in at such a location and a test instrument can be connected via a coupling capacitor or an external DC isolation (e.g., a network or spectrum analyzer). Therefore, the coaxial cable is routed through the hole, the external conductor is soldered at the via-hole and the inner conductor at the desired location. For service purposes, the service adapter is inserted into the slot instead of the module. The module is plugged into the adapter, subsequently. The module is ready for operation after connecting the RF connections.

7.4.1 Data Transmission Check

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

- ▶ Check the voltages at D20:
"1" = +5 V, "0" = 0 V

| Setting on SME | Logic State at D20 | | | | Note |
|----------------|--------------------|-------|-------|-------|-------------------|
| | Pin14 | Pin13 | Pin12 | Pin11 | |
| AM INT LFGEN2 | 1 | 0 | 0 | 0 | AM SOURCE EXT OFF |
| AM INT LFGEN1 | 0 | 1 | 0 | 0 | AM SOURCE EXT OFF |
| AM EXT1 DC | 0 | 0 | 1 | 0 | AM SOURCE INT OFF |
| AM EXT1 AC | 0 | 0 | 0 | 1 | AM SOURCE INT OFF |

7.4.2 Comparator Adjustment of Input EXT1

- Setting: **AM SOURCE EXT1**
AM EXT COUPLING AC
- ▶ Apply an AF signal $f = 1$ kHz with the amplitude $U = 1.021$ V to the input EXT1.
- ▶ Adjust R216 such that the EXT1-HIGH LED on the front panel just lights up.
- ▶ Test: R216 has been adjusted correctly if EXT1-HIGH is visible on the display with increase of the input voltage at EXT1 from 1.020 V to 1.021 V.

7.4.3 AF Generator LFGEN1 Adjustment

- Setting: **LF OUTPUT STATE ON**
LF OUTPUT SOURCE LFGEN1

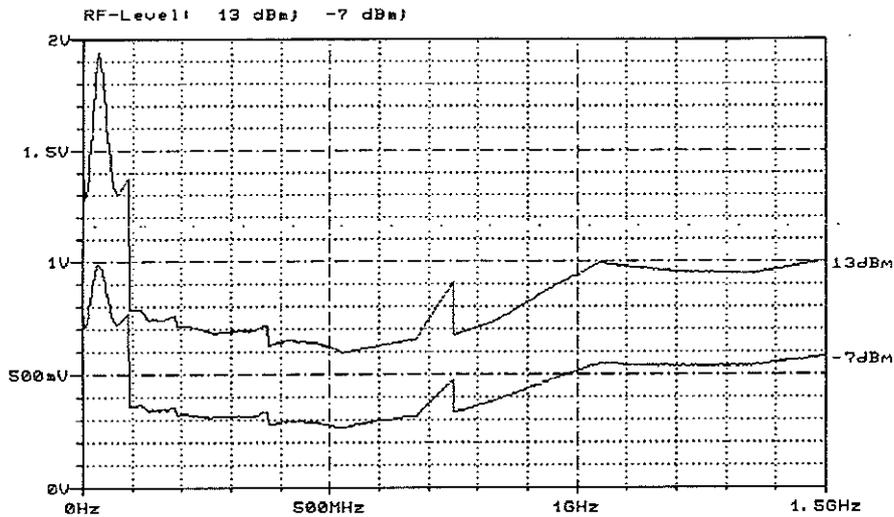
| LF frequency on SME | GINTFREQ-1 D110/12 | GINTFREQ-0 D110/13 | Note on the LF Module |
|---------------------|-----------------------|-----------------------|--------------------------|
| 0.4 kHz | 0 | 0 | 400 Hz \pm 3% |
| 1 kHz | 0 | 1 | 1 kHz \pm 3% |
| 3 kHz | 1 | 0 | 3 kHz \pm 3% |
| 15 kHz | 1 | 1 | 15 kHz \pm 3% |

- Connect an AF voltmeter with high-impedance input to the instrument output LF.
- ▶ Set the amplitude to $1 \text{ V} \pm 2 \text{ mV}$ using R298 (LF Module). Connect a spectrum analyser to the instrument output LF via a series resistor of 150Ω (load resistance of the LF generator $\geq 200 \Omega$).
- ▶ The harmonics must be $< -60 \text{ dBc}$.

7.4.4 LEVEL PRESET Check

- Terminate the instrument output RF 50Ω with a 50Ω load.
- ▶ The LEVEL PRESET voltage can be measured via the diagnostic No.707.
The voltage depends on the RF frequency, the RF level and on the stored calibration data. The controller transmits the calculated values to the LPRE D/A converter.
- OUTPUT: AMODE FIXED is set with an RF level of 13 dBm, in order to electronically attenuate 20 dB.

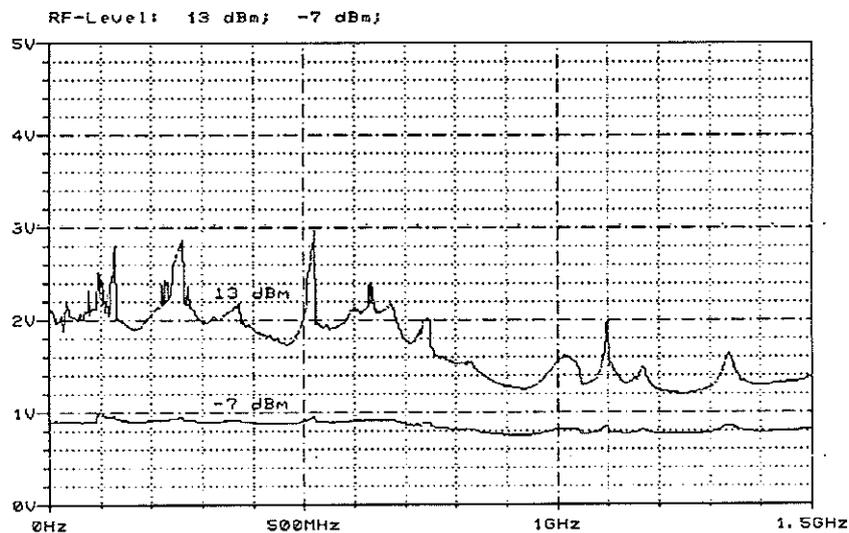
Typical voltages are illustrated by the figure below:



7.4.5 ALC Amplifier Check

- Terminate the instrument output RF 50Ω with a 50Ω load.
- ▶ The output voltage of the ALC amplifier can be measured via diagnostic No. 705.
The voltage depends on the RF frequency, the RF level and the stored calibration data.

Typical voltages are illustrated by the figure below:

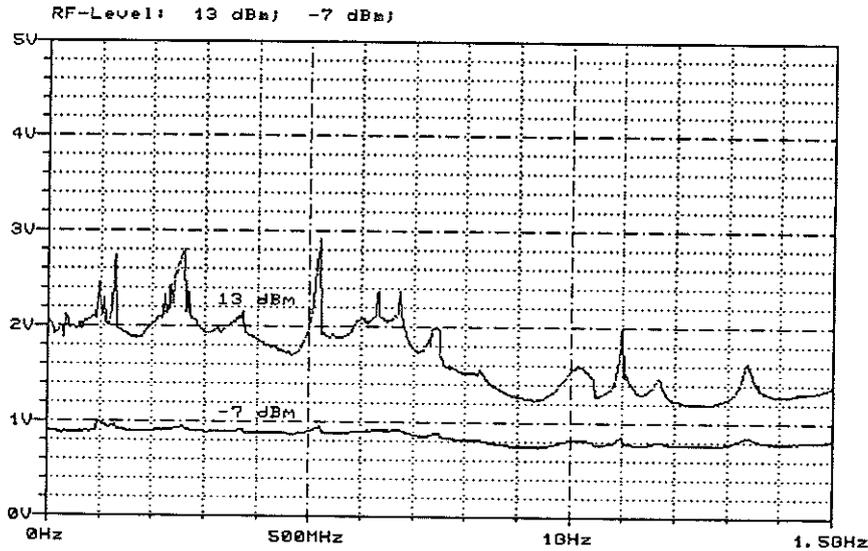


7.4.6 Checking the Operating Point of the AM Modulator

- Terminate the instrument output RF 50Ω with a 50Ω load.
- ▶ The control voltage of the AM Modulator on the output module 1.5 GHz can be measured via diagnostic No. 706.
The AM modulator on the output module 1.5 GHz is set to minimum attenuation with RF frequencies > 1.5 GHz (SME 03 only).

OUTPUT: AMODE FIXED is set with an RF level of 13 dBm, in order to electronically attenuate 20 dB.

Typical voltages are illustrated by the figure below:



7.4.7 Checking the Operating Points of the Amplifiers

| Test Point (TPOINT) | Nominal voltage | Remark |
|---------------------|-----------------|------------------|
| N300/3 | 4.80 ± 0.8V | RF AMPLIFIER 1 |
| N360/3 | 4.80 ± 0.8V | RF AMPLIFIER 2 |
| N410/3 | 4.80 ± 0.8V | RF AMPLIFIER 3 |
| V602 Collector | 8.80 ± 0.3V | RF AMPLIFIER 4 |
| N620/3 | 5.50 ± 0.3V | LO AMPLIFIER |
| V612 Collector | 5.90 ± 0.3V | IF AMPLIFIER |
| N740/3 | 4.80 ± 0.8V | RF AMPLIFIER 5 |
| N820/3 | 6.30 ± 0.3V | DRIVER |
| V822 Collector | 16.60 ± 0.3V | OUTPUT AMPLIFIER |

7.4.8 Checking the Harmonic Filter Control

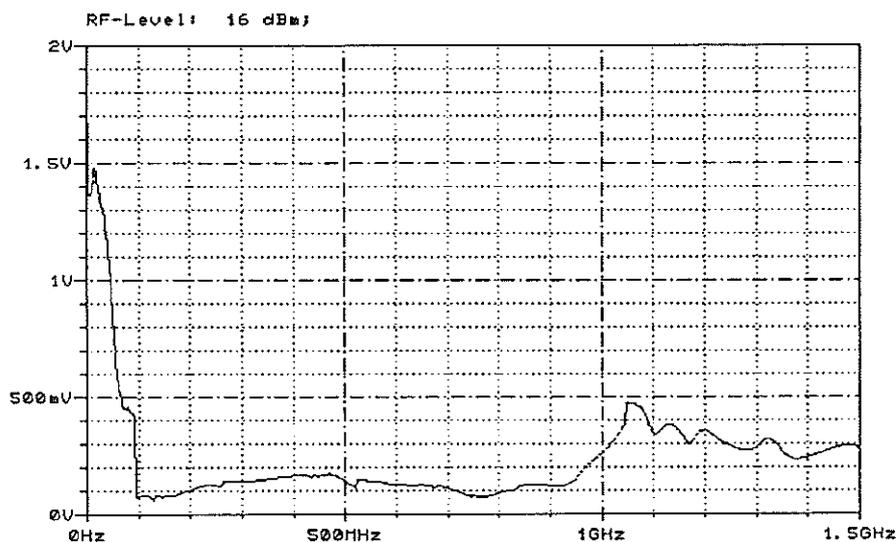
- ▶ Check LPSELECT-0 to LPSELECT-3 at the connector X1 on the LF Module and the lines TP0 to TP8 on the output module with given frequency setting on the SME.

| RF frequency on the SME | LPSELECT- | | | | Note on the LF Module |
|-------------------------|-------------|-------------|-------------|-------------|------------------------|
| | 3 D110/7 | 2 D110/6 | 1 D110/5 | 0 D110/4 | |
| 1500.00 MHz | 0 | 0 | 0 | 0 | Lowpass 0 |
| 1045.60 MHz | 0 | 0 | 0 | 1 | Lowpass 1 |
| 750.00 MHz | 0 | 0 | 1 | 0 | Lowpass 2 |
| 522.80 MHz | 0 | 0 | 1 | 1 | Lowpass 3 |
| 375.00 MHz | 0 | 1 | 0 | 0 | Lowpass 4 |
| 261.40 MHz | 0 | 1 | 0 | 1 | Lowpass 5 |
| 187.50 MHz | 0 | 1 | 1 | 0 | Lowpass 6 |
| 130.70 MHz | 0 | 1 | 1 | 1 | Lowpass 7 |
| 93.75 MHz | 0 | 0 | 1 | 0 | Lowpass 2, Mixer range |

7.4.9 Checking the RF Level at the Harmonic Filter Output

- Terminate the instrument output 50Ω with a 50Ω load.
- Setting: RF LEVEL 16 dBm
- ▶ The rectified RF voltage can be measured via diagnostic No. 703.

Typical voltages are illustrated by the figure below:



7.4.10 IF Gain Adjustment

- Connect a spectrum analyzer to the instrument output RF 50Ω.
- Setting: FREQUENCY 9.362501 MHz
 LEVEL 13 dBm
 LEVEL UCOR STATE OFF
- ▶ Measure RF signal, note RF level
- ▶ Decrease RF frequency by 1 Hz
- ▶ Adjust the level to the same value using R645
- ▶ Subsequent to adjustment, the calibration routines LEVEL and LEV PRESET must be performed.

7.4.11 IF Detector Linearity Adjustment

- Setting: FREQUENCY 9.3625 MHz
 LEVEL 10 dBm
- ▶ Measure and note the output level at the RF output of the instrument (= reference level)
- Setting: LEVEL - ATTENUATOR MODE FIXED
 LEVEL -10 dBm
- ▶ Adjust R619 that the measured level is 20 dB below the reference level measured before.
- ▶ Repeat adjustment once, since the reference value slightly changes with use of R619; after the adjustment, the accuracy of the 20-dB reduction shall reach ± 0.1 dB.

7.4.12 Detector Linearity Adjustment at the Output FOPU1

- Setting: FREQUENCY 1 GHz
 LEVEL 10 dBm
- ▶ Measure and note the output level at the RF output of the instrument(= reference level)
- Setting: LEVEL - ATTENUATOR MODE FIXED
 LEVEL -10 dBm
- ▶ Adjust R851 that the measured level is 20 dB below the reference level measured before.
- ▶ Repeat adjustment once, since the reference value changes with use of R851; after the adjustment, the accuracy of the 20-dB reduction shall reach ± 0.1 dB.

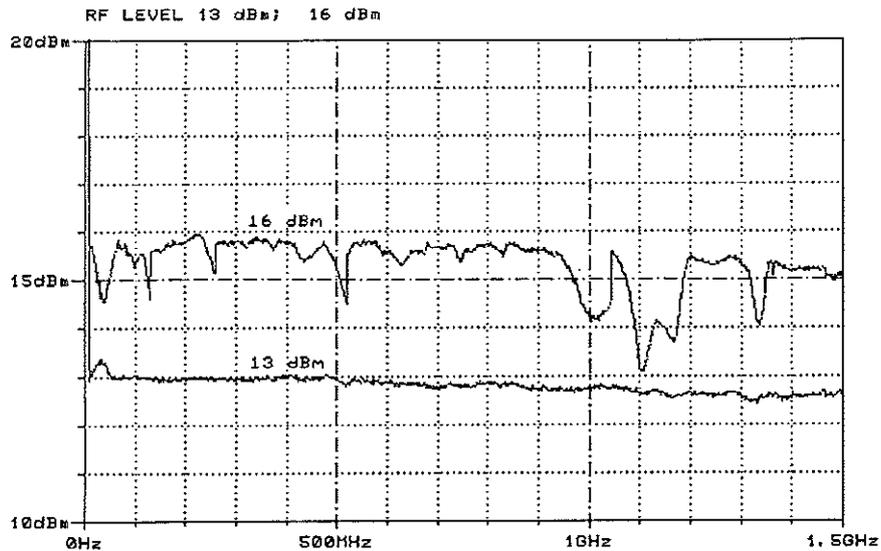
7.4.13 AM Depth Adjustment

- Setting: Instr PRESET
 LEVEL 7 dBm
 AM DEPTH 100%
 AM SOURCE EXT EXT1
 AM EXT COUPLING DC
 UTILITIES DIAG TPOINT STATE ON
 TEST POINT 704
- ▶ Connect a DC source U = -1.000 V to the instrument input EXT1.
- ▶ Adjust R214 that the displayed test point voltage reaches 0 V.

7.4.14 Maximum Output Level Check

- Setting: F-SWEEP ON
 START FREQ 1 MHz
 STOP FREQ 1.5 GHz
 STEP LIN 0.22 MHz
 DWELL 22 ms
 SPACING LIN
 MODE AUTO
 LEVEL 16 dBm
- ▶ Connect a spectrum analyzer to X108 FOPU1.

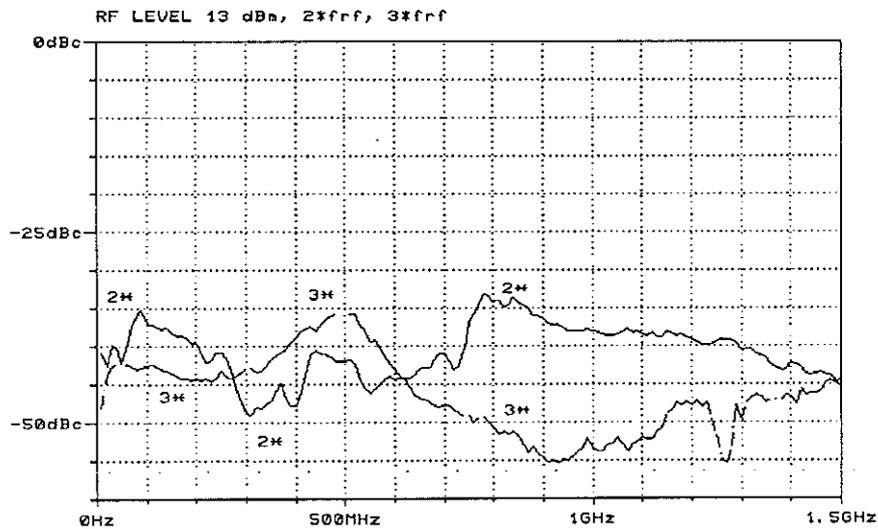
Typical levels are illustrated by the figure below:



7.4.15 Harmonics Check

- Setting: LEVEL 13 dBm
- ▶ Connect a spectrum analyzer to X108 FOPU1.
- ▶ The level of the harmonics must be < -30 dBc.

Typical measured values for $2*f_{RF}$ and $3*f_{RF}$ are illustrated by the figure below:



7.4.16 Nonharmonics Check

- Setting: FREQUENCY 93 MHz
 LEVEL 13 dBm
- ▶ Connect a spectrum analyzer to X108 FOPU1.
- ▶ Check spurious responses with the subsequent frequencies:
693 MHz, 1386 MHz, 600 MHz, 1200 MHz, 1800 MHz, 507 MHz, 414 MHz, 321 MHz, 228 MHz, 135 MHz, 42 MHz and 51 MHz.

► The level of the spurious signals must be < -80 dBc.

7.5 Removal and Assembly

The module can be taken out of its slot subsequent to opening the instrument, unlocking the module locking by undoing the screws at the sides of the motherboard and disconnecting coaxial connections at X101, X106 and X108.

The shielding covers of the module are fixed by screws.

The LF Module is fixed on the output module 1.5 GHz by means of four screws. Upon unscrewing these screws, the LF Module can be pressed out of the connector X1 by pressing the heads of the screws against the solder-side of the output module 1.5 GHz.

7.6 Interface Description

| Pin | Name | Input/Output | Origin/Destination | Specified range | Signal description |
|--------------------|-------------|--------------|--------------------|------------------------------------|--------------------------------|
| X10A.01 | BLANK | Input | A3, CPU | HCMOS level | RF level blanking |
| X10A.04 | EXT1 | Input | A3, FRO | -15 V up to 15 V | external AM input |
| X10A.05 | EXT2 | Input | A3, FRO | -15 V bis 15 V | external AM input |
| X10A.06 | INT1 | Input | A5, MGEN/LFGEN | -15 V bis 15 V | internal AM input |
| X10A.07 | INT2 | Input | A5, MGEN/LFGEN | -15 V bis 15 V | internal AM input |
| X10A.08 | VDAM | Output | A11, OPU3 | 0.5 V bis 10 V | Control voltage AM MODULATOR |
| X10A.09 | CODAM | Input | A8, DSYN | -1 V bis 1 V | Amplitude of digit. modulation |
| X10A.12 | SERBUS-CLK | Input | A3, CPU | HCMOS level | Serbus Clou. |
| X10A.14 X10A.15 | SERBUS-DAT | bidir. | A3, CPU | HCMOS level | Serbus Data |
| X10A.16 | SERBUS-SYNC | Input | A3, CPU | HCMOS level | Serbus Synchronization |
| X10A.17 | SERBUS-INT | Output | A3, CPU | HCMOS level | Serbus Interrupt |
| X10A.18 | RES-P | Input | A3, CPU | HCMOS level | Serbus Reset |
| 9A.19 | DIAG-5V | Output | A3, CPU | -5 V...5 V | Diagnostic |
| X10A.22 X10B.22 | VA24-P | Input | A2, POWS1 | 23.4 V...24.6 V 122 ± 5 mA | Supply voltage, analog |
| X10A.24 X10B.24 | VA15-P | Input | A2, POWS1 | 14.80 V...15.75 V 700 ± 50 mA | Supply voltage, analog |
| X10A.28 X10B.28 | VD-5P | Input | A2, POWS1 | 5.10 V...5.25 V 22 ± 3 mA | Supply voltage, digital |
| X10A.30 X10B.30 | VA15-N | Input | A2, POWS1 | -15.75 V...-14.85 V 186 ± 10 mA | Supply voltage, analog |
| X10A.32 | LSWI | Input | A8, DSYN | HCMOS level | Level Switch |

| | | | | | |
|---------|--------|---------|-------------|-------------|-------------------------------|
| X10B.06 | GOUT | Input | A5, MGEN | ±1 V | LF Generator |
| X10B.14 | ALARM | Output | Test output | HCMOS level | Error with level control |
| X10B.15 | WR1 | Output | Test output | HCMOS level | Write signal to SERBUS |
| X10B.16 | CLK1 | Output | Test output | HCMOS level | Clock signal to SERBUS |
| X10B.17 | DATA | Output | Test output | HCMOS level | Data signal to SERBUS |
| X10B.18 | WR2 | Ausgang | Test output | HCMOS level | Write signal to SERBUS |
| X10B.19 | CLK2 | Output | Test output | HCMOS level | Clock signal to SERBUS |
| X101 | FSUM | Input | A9, SUM | | 6 dBm to 9 dBm RF input |
| X105 | REF600 | Input | A7, REFSS | | 10 dBm ± 1 dB, 600 MHz |
| X108 | FOPU1 | Output | A11, OPU3 | 0 to 20 dBm | RF output 5 kHz up to 1.5 GHz |
| X119 | VDEET | Input | A11, OPU3 | 1 V to 10 V | Detector output voltage |



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

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---------------------|---|-------------------------|----------------------------|----------------------------|------------------------------|
| A101 | BD AMPLITUDENMODULATOR AMPLITUDE MODULATOR NUR VAR/ONLY MOD: 06 | 1038.7444.02 | | | |
| A102 | ED NF-TEIL NUR VAR/ONLY MOD: 04 | 1038.7996.04 | | | |
| A102 | ED NF-TEIL AF UNIT NUR VAR/ONLY MOD: 06 | 1038.7996.06 | | | |
| C1 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C6 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C7 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C8 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C50 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C51 | CE 22UF+-20%16V5RDX5RAD.A ELECTROLYTIC CAPACITOR | 0358.6062.00 | NAT_PANASO | ECE A 1C KS 220 B | |
| C52 | CE 22UF+-20%16V5RDX5RAD.A ELECTROLYTIC CAPACITOR | 0358.6062.00 | NAT_PANASO | ECE A 1C KS 220 B | |
| C76 | CE 100UF+-20%25V RM2.5 ELECTROLYTIC CAPACITOR | CE 0008.7891.00 | PANASONIC | ECA-1EFG101I | |
| C201 | CC 5,6PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8220.00 | MURATA | GRM42-6COG 5R6 C50PT | |
| C202 | CE 220UF+-20%10V RM2,5 ELECTROLYTIC CAPACITOR | CE 0008.7927.00 | PANASONIC | ECA 1 AFG 221 I | |
| C203 | CE 220UF+-20%10V RM2,5 ELECTROLYTIC CAPACITOR | CE 0008.7927.00 | PANASONIC | ECA 1 AFG 221 I | |
| C206 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | MURATA | GRM42-6COG 220F 50PT | |
| C208 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C210 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C212 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C218 | CK 1UF+-5%50V7,5X5,5X10,5 CAPACITOR NUR VAR/ONLY MOD: 04 | CK 0099.2998.00 | ERO | MKT 1826-510/054-R | |
| C219 | CK 1UF+-5%50V7,5X5,5X10,5 CAPACITOR NUR VAR/ONLY MOD: 04 | CK 0099.2998.00 | ERO | MKT 1826-510/054-R | |
| C221 | CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8809.00 | MURATA | GRM42-6COG 560F 50PT | |
| C222 | CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0099.8521.00 | MURATA | GRM42-6X7R103K 50PT | |
| C224 | CC 22NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR | CC 0099.8467.00 | PHILIPS_CO | 2238 581 16632 | |
| C230 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C231 | CC 8,2PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8242.00 | MURATA | GRM42-6COG 8R2 C50PT | |
| C233 | CE 22UF+-20%16V5RDX5RAD.A ELECTROLYTIC CAPACITOR | 0358.6062.00 | NAT_PANASO | ECE A 1C KS 220 B | |
| C243 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C244 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C245 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C246 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C247 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C248 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C249 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C250 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C253 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C254 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |

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|---|-----------|----|---------------|---|------------------------|------------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilleiste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 1+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| C255 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C256 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C257 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C300 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C301 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 06 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C302 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C303 | CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 06 | CC 0099.8780.00 | MURATA | GRM42-6COG 330F 50PT | |
| C303 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C313 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C315 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C316 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C318 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C319 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C325 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C327 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C327 | CK 1UF+-5%50V7,5X5,5X10,5 CAPACITOR NUR VAR/ONLY MOD: 04 | CK 0099.2998.00 | ERO | MKT 1826-510/054-R | |
| C328 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C328 | CK 1UF+-5%50V7,5X5,5X10,5 CAPACITOR NUR VAR/ONLY MOD: 04 | CK 0099.2998.00 | ERO | MKT 1826-510/054-R | |
| C329 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C330 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C340 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C350 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C351 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C352 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C353 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C355 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 06 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C356 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C357 | CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 06 | CC 0099.8780.00 | MURATA | GRM42-6COG 330F 50PT | |
| C357 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR NUR VAR/ONLY MOD: 04 | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |

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|--|----------------------------|----|------------|---|------------------------|---------------|
| 1GPK | 502 3PU-D | A1 | Datum Date | Schaltteiliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 2+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| C359 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C360 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C361 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C362 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C400 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C401 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C402 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C404 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C405 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C410 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C412 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C417 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C440 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C500 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C501 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C503 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C504 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C505 | CC 3,3PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8194.00 | MURATA | GRM42-6COG 3R3 C50PT | |
| C506 | CC 2,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8188.00 | MURATA | GRM42-6COG 2R7 C50PT | |
| C507 | CC 2,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8188.00 | MURATA | GRM42-6COG 2R7 C50PT | |
| C509 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C510 | CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C511 | CC 3,3PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8194.00 | MURATA | GRM42-6COG 3R3 C50PT | |
| C512 | CC 3,3PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8194.00 | MURATA | GRM42-6COG 3R3 C50PT | |
| C514 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C515 | CC 5,6PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8220.00 | MURATA | GRM42-6COG 5R6 C50PT | |
| C516 | CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C517 | CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C518 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C519 | CC 1,8PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8165.00 | MURATA | GRM42-6COG 1R8 C50PT | |
| C520 | CC 1,5PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8159.00 | MURATA | GRM42-6COG 1R5 C50PT | |
| C521 | CC 1,5PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8159.00 | MURATA | GRM42-6COG 1R5 C50PT | |
| C526 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C527 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C530 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C531 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C532 | CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C533 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C534 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 3+ | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| C536 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C537 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C538 | CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C539 | CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C540 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C545 | CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8409.00 | MURATA | GRM42-6COG 270F 50PT | |
| C546 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C547 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C553 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C560 | CC 33PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8780.00 | MURATA | GRM42-6COG 330F 50PT | |
| C562 | CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8409.00 | MURATA | GRM42-6COG 270F 50PT | |
| C564 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | MURATA | GRM42-6COG 220F 50PT | |
| C568 | CC 5,6PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8220.00 | MURATA | GRM42-6COG 5R6 C50PT | |
| C569 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C570 | CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C573 | CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8750.00 | MURATA | GRM42-6COG 150F 50PT | |
| C575 | CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8750.00 | MURATA | GRM42-6COG 150F 50PT | |
| C580 | CC 15PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8750.00 | MURATA | GRM42-6COG 150F 50PT | |
| C582 | CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C584 | CC 5,6PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8220.00 | MURATA | GRM42-6COG 5R6 C50PT | |
| C585 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C600 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C601 | CC 27NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR | CC 0099.8473.00 | PHILIPS_CO | 2238 581 16633 | |
| C602 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C603 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C604 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C605 | CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C606 | CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C607 | CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C608 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C609 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C610 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C611 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C613 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C614 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C615 | CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR | CC 0099.8496.00 | MURATA | GRM42-6COG 470F 50PT | |
| C616 | CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR | CC 0099.8496.00 | MURATA | GRM42-6COG 470F 50PT | |
| C617 | CC 4,7PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C618 | CC 8,2PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8242.00 | MURATA | GRM42-6COG 8R2 C50PT | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| C619 | CC 8,2PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8242.00 | MURATA | GRM42-6COG 8R2 C50PT | |
| C620 | CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C621 | CC 3,9PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C622 | CC 3,9PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C625 | CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C627 | CC 18PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8767.00 | MURATA | GRM42-6COG 180F 50PT | |
| C628 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C629 | CE 47UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7300.00 | KEMET | T491 D 476 K 010 AS | |
| C631 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C632 | CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR | CC 0099.8496.00 | MURATA | GRM42-6COG 470F 50PT | |
| C633 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | F |
| C633 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | F |
| C634 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | KEMET | T491D106K025AS | |
| C635 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C635 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C636 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | KEMET | T491D106K025AS | |
| C637 | CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR | 0803.0667.00 | NAT_PANASO | ECE-A1VKS-100 | |
| C638 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C639 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C640 | CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C641 | CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C642 | CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8409.00 | MURATA | GRM42-6COG 270F 50PT | |
| C643 | CC 27PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8409.00 | MURATA | GRM42-6COG 270F 50PT | |
| C644 | CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C645 | CC 4,7PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8213.00 | MURATA | GRM42-6COG 4R7C 50PT | |
| C646 | CC 8,2PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8242.00 | MURATA | GRM42-6COG 8R2 C50PT | |
| C650 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C651 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C652 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C653 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C654 | CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0099.8521.00 | MURATA | GRM42-6X7R103K 50PT | |
| C656 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C660 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C661 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C662 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C663 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C668 | CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C670 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttailliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 5+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| C671 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C700 | CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8667.00 | PHILIPS_CO | 2238 863 15108 | |
| C701 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C702 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C705 | CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8809.00 | MURATA | GRM42-6COG 560F 50PT | |
| C707 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C708 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C709 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C710 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C714 | CC 3,9PF+-0,25 50VNPO1206 CERAMIC CHIP CAPACITOR | CC 0007.8207.00 | MURATA | GRM42-6COG 3R9 C50PT | |
| C715 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C720 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C721 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C723 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C724 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C727 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C732 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C734 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C735 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C736 | CC 82PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8821.00 | MURATA | GRM42-6COG 820F 50PT | |
| C738 | CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR | CC 0099.8496.00 | MURATA | GRM42-6COG 470F 50PT | |
| C740 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C742 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C743 | CC 220PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8850.00 | PHILIPS_CO | 2238 863 18221 | |
| C747 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C748 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C750 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C751 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C762 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C800 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C801 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C802 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C803 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C804 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C805 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C808 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C809 | CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR | 0803.0667.00 | NAT_PANASO | ECE-A1VK5-100 | |
| C810 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C811 | CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITDR | CE 0007.7281.00 | KEMET | T491 C 106 K 010 AS | |

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| 1GPK | 502 3PU-D A1 | Datum Date | Schalttafeliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 6+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| C815 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C816 | CE 10UF +-10% 10V 6032 TANTALUM SMD-CAPACITOR | CE 0007.7281.00 | KEMET | T491 C 106 K 010 AS | |
| C817 | CE 10UF+-20%35V RD5,5XH6 ELECTROLYTIC CAPACITOR | 0803.0667.00 | NAT_PANASO | ECE-A1VKS-100 | |
| C820 | CC 10PF+-0,25 50VNP0 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C5OPT | |
| C821 | CC 5,6PF+-0,25 50VNP01206 CERAMIC CHIP CAPACITOR | CC 0007.8220.00 | MURATA | GRM42-6COG 5R6 C5OPT | |
| C822 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C824 | CE 1UF +-10% 25V EIA3528 TANTALUM SMD-CAPACITOR | CE 0007.7217.00 | KEMET | T 491 B105 K025 AS | |
| C831 | CC 150NF+-10%50V X7R 1210 CERAMIC CHIP CAPACITOR | CC 0007.7446.00 | PHILIPS_CO | 2222 592 16643 | |
| C833 | CE 100UF+-20%25V RM2.5 ELECTROLYTIC CAPACITOR | CE 0008.7891.00 | PANASONIC | ECA-1EFG101I | |
| C842 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | KEMET | T491D106K025AS | |
| C843 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C844 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C845 | CC 1PF+-0,25 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8667.00 | PHILIPS_CO | 2238 863 15108 | |
| C846 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C847 | CC 47PF+-1%50V COG 1206 CERAMIC CHIP CAPACITOR | CC 0099.8496.00 | MURATA | GRM42-6COG 470F 50PT | |
| C848 | CC 10PF 0,25PF NPO 0805 CERAMIC CHIP CAPACITOR | CC 0099.8321.00 | MURATA | GRM40 COG100C 50 PT | |
| C850 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C851 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C852 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C853 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C854 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C855 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C870 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C871 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| D1 | BG TH3032.1C SERBUSD ASIC IC GATE ARRAY | 0008.6143.00 | THESYS | TH3032.1C | |
| D5 | BL PC74HC244T 8XBUFFER. 3S OCTAL BUFFER TRI-STATE | BL 0007.3557.00 | PHILIPS_SE | (PC)74HC244D(T) | |
| D20 | BL PC74HC4094T 8ST.BUSREG BUS REGISTER | BL 0804.0977.00 | PHILIPS_SE | (PC)74HC4094(D/T) | |
| D50 | BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D60 | BL PC74HCT86T 4X2IN.EXOR EXOR GATE | BL 0007.6291.00 | PHILIPS_SE | (PC)74HCT86(D/T) | |
| D200 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D202 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D210 | BL PC74HC123T 2XMULTIVIB DUAL MULTIVIBRATOR | BL 0007.3528.00 | PHILIPS_SE | (PC)74HC123(D/T) | |
| D250 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D430 | BL PC74HCT42T BCD/D. DEC DECODER | BL 0007.6240.00 | PHILIPS | (PC)74HCT42(T) | |
| D431 | BL PC74HCT04T 6XINVERT HEXINVERTER | BL 0007.5372.00 | PHILIPS_SE | (PC)74HCT04(D/T) | |
| D432 | BL PC74HCT04T 6XINVERT HEXINVERTER | BL 0007.5372.00 | PHILIPS_SE | (PC)74HCT04(D/T) | |
| D760 | BM SW-239 GAAS SPDTSWITCH GAAS RF-SWITCH | 0853.5579.00 | ANZAC | SW239 | |

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|---|----------------------------|----|------------|---|------------------------|---------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 7+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| L60 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L62 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L63 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L64 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L65 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L66 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L67 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L68 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L69 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L70 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L76 | LD 3UH 2A 0,077 OHM CHOKE | LD 0026.4532.00 | FASTRON_GE | MISC-3ROM-01 (00) | |
| L78 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L79 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L80 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L82 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L83 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L84 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L85 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L86 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L87 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L88 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L89 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L90 | LD 470NH 10% SMD-INDUCTOR 0,15A 1210 | LD 0007.9926.00 | SIEMENS | B82422-A3471-J(K)100 | |
| L300 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L300 | NUR VAR/ONLY MOD: 06 LD 220NH 10% SMD-INDUCTOR 0,28A 1210 | LD 0520.7911.00 | SIEMENS | B82422-A3221-J(K)100 | |
| L305 | NUR VAR/ONLY MOD: 04 LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L325 | NUR VAR/ONLY MOD: 04 LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L340 | NUR VAR/ONLY MOD: 04 LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L351 | NUR VAR/ONLY MOD: 04 LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L352 | LD 12NH 10% SMD-INDUCTOR 0,70A 1210 | 1002.4900.00 | SIEMENS | B82422-A3120-J(K)100 | |
| L353 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L355 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L355 | NUR VAR/ONLY MOD: 06 LD 220NH 10% SMD-INDUCTOR 0,28A 1210 | LD 0520.7911.00 | SIEMENS | B82422-A3221-J(K)100 | |
| L360 | NUR VAR/ONLY MOD: 04 LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L361 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafeliste für Paris list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 8+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--------------------------------------|----------------------|-------------------------|-------------------------|---------------------------|
| L400 | LD 0,82UH10%0,850HMO,420A CHOKE | LD 0067.2857.00 | DALE | IM2 | |
| L410 | LD 0,68UH10%0,600HMO,500A CHOKE | LD 0067.2840.00 | DALE | IM2 | |
| L416 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L417 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L430 | LD 1UH 10% 0,38A 1210 SMD-INDUCTOR | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L431 | LD 1UH 10% 0,38A 1210 SMD-INDUCTOR | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L432 | LD 1UH 10% 0,38A 1210 SMD-INDUCTOR | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L500 | LD 1,20UH10%0,180HMO,620A CHOKE | LD 0067.2870.00 | DALE | IM2 | |
| L501 | LD 0,22UH10%0,140HM1,045A CHOKE | LD 0067.2786.00 | DALE | IM2 | |
| L505 | LD 100NH 10% 0,080HM 1,4A CHOKE | LD 0067.2740.00 | DALE | IM2 | |
| L510 | LD 0,33UH10%0,220HMO,830A CHOKE | LD 0067.2805.00 | DALE | IM2 | |
| L517 | LD 0,15UH10%0,100HM1,230A CHOKE | LD 0067.2763.00 | DALE | IM2 | |
| L520 | LD 0,82UH10%0,850HMO,420A CHOKE | LD 0067.2857.00 | DALE | IM2 | |
| L530 | LD 3,30UH10%0,850HMO,285A CHOKE | LD 0067.2928.00 | DALE | IM2 | |
| L532 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L533 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L534 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L536 | LD 3,30UH10%0,850HMO,285A CHOKE | LD 0067.2928.00 | DALE | IM2 | |
| L537 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L538 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L539 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L540 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L541 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L542 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L543 | LD 3,30UH10%0,850HMO,285A CHOKE | LD 0067.2928.00 | DALE | IM2 | |
| L544 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L545 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L546 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L547 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L548 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L549 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L550 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L551 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L553 | LD 3,30UH10%0,850HMO,285A CHOKE | LD 0067.2928.00 | DALE | IM2 | |
| L559 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L560 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L561 | LD 22NH 10% 0,60A 1210 SMD-INDUCTOR | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L562 | LD 100NH 10% 0,44A 1210 SMD-INDUCTOR | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L563 | LD 47NH 10% 0,51A 1210 SMD-INDUCTOR | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |

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|---|-----------|----|------------|---|------------------------|---------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Schaltliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 9+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--------------------------------------|----------------------|-------------------------|-------------------------|---------------------------|
| L564 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L565 | LD 47NH 10% SMD-INDUCTOR 0,51A 1210 | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L566 | LD 47NH 10% SMD-INDUCTOR 0,51A 1210 | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L568 | LD 3,30UH10%,850HMO,285A CHOKE | LD 0067.2928.00 | DALE | IM2 | |
| L570 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L571 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L572 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L580 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L583 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L584 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L585 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L600 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L601 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L602 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L604 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L608 | LD 12NH 10% SMD-INDUCTOR 0,70A 1210 | 1002.4900.00 | SIEMENS | B82422-A3120-J(K)100 | |
| L610 | LD 12NH 10% SMD-INDUCTOR 0,70A 1210 | 1002.4900.00 | SIEMENS | B82422-A3120-J(K)100 | |
| L620 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L621 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L630 | LD 47NH 10% SMD-INDUCTOR 0,51A 1210 | 0008.5976.00 | SIEMENS | B82422-A3470-J(K)100 | |
| L632 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L633 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L642 | LD 1,00UH10%,1,00DHMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L643 | LD 0,27UH10%,160HMO,975A CHOKE | LD 0067.2792.00 | DALE | IM2 | |
| L644 | LD 0,15UH10%,100HM1,230A CHOKE | LD 0067.2763.00 | DALE | IM2 | |
| L645 | LD 0,15UH10%,100HM1,230A CHOKE | LD 0067.2763.00 | DALE | IM2 | |
| L647 | LD 100NH 10% 0,080HM 1,4A CHOKE | LD 0067.2740.00 | DALE | IM2 | |
| L648 | LD 0,15UH10%,100HM1,230A CHOKE | LD 0067.2763.00 | DALE | IM2 | |
| L649 | LD 0,15UH10%,100HM1,230A CHOKE | LD 0067.2763.00 | DALE | IM2 | |
| L650 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L651 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L660 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L661 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L662 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L663 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L668 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L670 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L671 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L705 | LD 220NH 10% SMD-INDUCTOR 0,28A 1210 | LD 0520.7911.00 | SIEMENS | B82422-A3221-J(K)100 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilleiste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 10+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| L706 | LD 220NH 10% SMD-INDUCTOR 0,28A 1210 | LD 0520.7911.00 | SIEMENS | B82422-A3221-J(K)100 | |
| L709 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L714 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L720 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L727 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L730 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L732 | LD 4,7UH 10% SMD-INDUCTOR 0,15A 1210 | LD 0008.1687.00 | SIEMENS | B82422-A1472-J(K)100 | |
| L738 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L739 | LD 100NH 10% SMD-INDUCTOR 0,44A 1210 | LD 0007.9249.00 | SIEMENS | B82422-A3101-J(K)100 | |
| L740 | LD 0,82UH10%0,850HMO,420A CHOKE | LD 0067.2857.00 | DALE | IM2 | |
| L742 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L762 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L800 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L801 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L802 | LD 1UH 10% SMD-INDUCTOR 0,38A 1210 | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L803 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L814 | LL FERRITSPULE (F5-TEIL) | 1038.7850.00 | | | |
| L815 | LD FERRITSPULE COIL | 0843.3944.00 | | | |
| L816 | LD 3,9MH 0,2A 200HM INTERFERENCE CHOKE | 1020.5256.00 | SIEMENS | B82500-C-A2 | |
| L817 | LD 3,9MH 0,2A 200HM INTERFERENCE CHOKE | 1020.5256.00 | SIEMENS | B82500-C-A2 | |
| L818 | LD 1,00UH10%1,000HMO,390A CHOKE | LD 0067.2863.00 | DALE | IM2 | |
| L820 | LD 22NH 10% SMD-INDUCTOR 0,60A 1210 | 1002.4897.00 | SIEMENS | B82422-A3220-J(K)100 | |
| L830 | LD FERRITSPULE COIL | 0843.3944.00 | | | |
| L831 | LL FERRITSPULE (F5-TEIL) | 1038.7850.00 | | | |
| L832 | LD 3,9MH 0,2A 200HM INTERFERENCE CHOKE | 1020.5256.00 | SIEMENS | B82500-C-A2 | |
| L833 | LD 3,9MH 0,2A 200HM INTERFERENCE CHOKE | 1020.5256.00 | SIEMENS | B82500-C-A2 | |
| L843 | LD 220NH 10% SMD-INDUCTOR 0,28A 1210 | LD 0520.7911.00 | SIEMENS | B82422-A3221-J(K)100 | |
| L845 | LD 100UH 10% SMD-INDUCTOR 0,06A 1210 | LD 0007.9261.00 | SIEMENS | B82422-A1104-J(K)100 | |
| N200 | BO AD744KR FET OPAMP BIFET OPAMP | 0854.1754.00 | ANALOG_DEV | (AD)744KR | |
| N230 | BO LF412CN 2XFET OPAMP OPERATIONAL AMPLIFIER | 0356.0521.00 | NSC | LF412CN | |
| N233 | BO M78L05ACM+5V5%0A1 VREG VOLTAGE REGULATOR | 0351.3451.00 | NSC | LM78L05ACM | |
| N240 | BO LF412CN 2XFET OPAMP OPERATIONAL AMPLIFIER | 0356.0521.00 | NSC | LF412CN | |
| N250 | BO LM119J 2X COMPAR COMPARATOR | 0007.5337.00 | LINEAR_TEC | LM119J (AJ) | |
| N360 | BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER | 0846.4293.00 | AVANTEK | MSA-0486 | |
| N410 | BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER | 0846.4293.00 | AVANTEK | MSA-0486 | |
| N600 | BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER | 0007.7823.00 | TEXAS | TLO74A(CD) | |
| N610 | BO AD744KR FET OPAMP BIFET OPAMP | 0854.1754.00 | ANALOG_DEV | (AD)744KR | |
| N620 | BM MSA1105 05-1.3G MMIC IC MICROWAVE MONOLITH AMP | 1051.4051.00 | AVANTEK | MSA-1105-TR1 | |
| N740 | BM MSA0486 DC-3.2G MMIC BROADBAND AMPLIFIER | 0846.4293.00 | AVANTEK | MSA-0486 | |

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| 1GPK | 502 3PU-D | Al | Datum Date | Schalttaelliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 11+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| N820 | BM MSAO420 MMIC BROADBAND AMPLIFIER | 0817.1502.00 | AVANTEK | MSAO420 | |
| N840 | B0 TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER | 0007.7823.00 | TEXAS | TLO74A(CD) | |
| N845 | B0 AD744KR FET OPAMP BIFET OPAMP | 0854.1754.00 | ANALOG_DEV | (AD)744KR | |
| P201 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P202 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P203 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P204 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P205 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P206 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P207 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P208 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P209 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P210 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P211 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P212 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P213 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P232 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P233 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P600 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P601 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P620 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P621 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P628 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P850 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P851 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P866 | VL EINPRESSTIFT L=6,8 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| R2 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R3 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R4 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R5 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R9 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R10 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R11 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R14 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R15 | NUR VAR/ONLY MOD: 06 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R31 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R32 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafeliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 12+ | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| R33 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R34 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R35 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R36 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R37 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R38 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R39 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R40 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R41 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R42 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R43 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R44 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R45 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R46 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R47 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R48 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R50 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R51 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R52 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R53 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R56 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R57 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R58 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R59 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R81 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R82 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R83 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R87 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R88 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R90 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R91 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R92 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R200 | RG 150 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5972.00 | ROEDERSTEI | D25 | |
| R201 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R203 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R204 | RG 150 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5972.00 | ROEDERSTEI | D25 | |
| R206 | RL 0,35W10,OKOHM+-0,1%T25 RESISTOR | RL 0084.3064.00 | DRALORIC | SMA0207 | |
| R207 | RL 0,35W10,OKOHM+-0,1%T25 RESISTOR | RL 0084.3064.00 | DRALORIC | SMA0207 | |
| R208 | RL 0,35W10,OKOHM+-0,1%T25 RESISTOR | RL 0084.3064.00 | DRALORIC | SMA0207 | |

| 1GPK | 502 3PU-D | Alt | Datum Date | Schaltteilleiste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
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|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 13+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| R209 | RL 0,35W10,0KOHM+-0,1%T25 RESISTOR | RL 0084.3064.00 | DRALORIC | SMA0207 | |
| R210 | RL 0,35W10,0KOHM+-0,1%T25 RESISTOR | RL 0084.3064.00 | DRALORIC | SMA0207 | |
| R211 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R212 | RG 56,2KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.1883.00 | ROEDERSTEI | D25 | |
| R214 | RS 0,25W 5KOHM +-20% SMD POTENTIOMETER | RS 0007.9632.00 | BI_TECHNOL | 23 B R... TR | |
| R216 | RS 0,25W 2KOHM +-20% SMD POTENTIOMETER | RS 0007.9626.00 | BI_TECHNOL | 23 B R... TR | |
| R217 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R218 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R219 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R220 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R221 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R231 | RL 0,35W21,0KOHM+-0,1%T25 RESISTOR | RL 0084.3687.00 | DRALORIC | SMA0207 | |
| R232 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R233 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R234 | RL 0,35W164 OHM+-0,1%TK25 RESISTOR | RL 0083.7637.00 | DRALORIC | SMA0207 | |
| R235 | RL 0,35W4,02KOHM+-0,1%T25 RESISTOR | RL 0084.2300.00 | DRALORIC | SMA0207 | |
| R240 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R241 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R242 | RG 274 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.4460.00 | ROEDERSTEI | D25 | |
| R243 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R244 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R245 | RG 274 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.4460.00 | ROEDERSTEI | D25 | |
| R246 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R247 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R251 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R251 | RL 0,60W 221 OHM+-1%TK50 RESISTOR | RL 0083.0084.00 | RESISTA | MK2 | |
| R252 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R253 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R300 | RG 0,05W 27R +-1% RESISTOR | 0805 RG 0007.8936.00 | HONEST_JAP | RN 73 C(E)2X..F (1%) | |
| R301 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R302 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R303 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R304 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R305 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R306 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R307 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R308 | RK SMD-HEISSL.220R SMD-NTC-RESISTOR | 0805 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R310 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R312 | RG 12,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8661.00 | ROEDERSTEI | D25 | |

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|--|-----------|----------|---|------------------------|---------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Sachnummer Stock No | Blatt-Nr Page |
|  | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 14+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| R313 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R314 | RG 511 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.9051.00 | PHILIPS_CO | RC02 | |
| R315 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R316 | RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5543.00 | ROEDERSTEI | D25 | |
| R317 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R318 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R319 | RG 562 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.9068.00 | PHILIPS_CO | RC02 | |
| R320 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R321 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R325 | RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5737.00 | ROEDERSTEI | D25 | |
| R327 | RG 562 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.9068.00 | PHILIPS_CO | RC02 | |
| R328 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R329 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R330 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R332 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R333 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R338 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R340 | RG 511 OHM+-1%TK100 1206 CHIP RESISTOR NUR VAR/ONLY MOD: 04 | RG 0006.9051.00 | PHILIPS_CO | RC02 | |
| R341 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR NUR VAR/ONLY MOD: 04 | RL 0083.0684.00 | RESISTA | MK2 | |
| R342 | RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP NUR VAR/ONLY MOD: 04 | RG 0007.5543.00 | ROEDERSTEI | D25 | |
| R348 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 06 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R349 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM NUR VAR/ONLY MOD: 06 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R350 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R353 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R354 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R355 | RG 825 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.7259.00 | ROEDERSTEI | D25 | |
| R356 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R357 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafeliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| R360 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R361 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R400 | RG 511 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9051.00 | PHILIPS_CO | RC02 | |
| R401 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR | RL 0083.0684.00 | RESISTA | MK2 | |
| R402 | RG 39,2 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5543.00 | ROEDERSTEI | D25 | |
| R404 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R405 | RG 562 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9068.00 | PHILIPS_CO | RC02 | |
| R406 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R407 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R408 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR | RL 0083.0684.00 | RESISTA | MK2 | |
| R409 | RL 0,60W 1,33KOHM+-1%TK50 RESISTOR | RL 0083.0684.00 | RESISTA | MK2 | |
| R410 | RG 39,2KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5937.00 | ROEDERSTEI | D25 | |
| R411 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R412 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R416 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R417 | RL 0,60W 100 OHM+-1%TK50 RESISTOR | RL 0082.6543.00 | RESISTA | MK2 | |
| R430 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R431 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R432 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R433 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R434 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R435 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R436 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R437 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R438 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R440 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R442 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R443 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R450 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R451 | RG 150 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5589.00 | ROEDERSTEI | D25 | |
| R452 | RG 182 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5595.00 | ROEDERSTEI | D25 | |
| R453 | RG 150 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5589.00 | ROEDERSTEI | D25 | |
| R454 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R455 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R500 | RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5737.00 | ROEDERSTEI | D25 | |
| R501 | RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5737.00 | ROEDERSTEI | D25 | |
| R502 | RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5737.00 | ROEDERSTEI | D25 | |
| R503 | RG 392 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5672.00 | ROEDERSTEI | D25 | |
| R520 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |

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|---------------------|--|-------------------------|----------------------------|----------------------------|------------------------------|
| R521 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R522 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R530 | RG 392 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5672.00 | ROEDERSTEI | D25 | |
| R600 | RG 221 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5614.00 | ROEDERSTEI | D25 | |
| R601 | RL 0,60W 274 OHM+-1%TK50 RESISTOR | RL 0083.0178.00 | RESISTA | MK2 | |
| R602 | RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5508.00 | ROEDERSTEI | D25 | |
| R603 | RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R604 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R605 | RG 15,0 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5450.00 | ROEDERSTEI | D25 | |
| R607 | RG 274 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.4460.00 | ROEDERSTEI | D25 | |
| R608 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R609 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R610 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R611 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R612 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R613 | RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5720.00 | ROEDERSTEI | D25 | |
| R614 | RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5766.00 | PHILIPS_CO | RC02 | |
| R615 | RG 1,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9949.00 | PHILIPS_CO | RC 01 | |
| R616 | RG 1,82KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5720.00 | ROEDERSTEI | D25 | |
| R617 | RG 1,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9949.00 | PHILIPS_CO | RC 01 | |
| R618 | RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R619 | RS 0,25W 5KOHM +-20% SMD POTENTIOMETER | RS 0007.9632.00 | BI_TECHNOL | 23 B R... TR | |
| R620 | RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R621 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R622 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R623 | RK SMD-HEISSL.220R 0805 SMD-NTC-RESISTOR | 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R624 | RK SMD-HEISSL.220R 0805 SMD-NTC-RESISTOR | 1039.1310.00 | SIEMENS | B57620-C221-K62 | |
| R625 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R626 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R627 | RG 121 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8903.00 | ROEDERSTEI | D25 | |
| R627 | NUR VAR/ONLY MOD: 06 RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8861.00 | PHILIPS_CO | RC02 | |
| R628 | NUR VAR/ONLY MOD: 04 RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8861.00 | PHILIPS_CO | RC02 | |
| R629 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R630 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R632 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R634 | RG 56,2 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8826.00 | ROEDERSTEI | D25 | |
| R635 | RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5872.00 | ROEDERSTEI | D25 | |
| R636 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |

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|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| R637 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R638 | RG 392 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5672.00 | ROEDERSTEI | D25 | |
| R639 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R640 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R641 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R642 | RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8810.00 | ROEDERSTEI | D25 | |
| R644 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R645 | RS 0,25W200 OHM+-20% SMD POTENTIOMETER | RS 0007.9590.00 | BOURNS | 3314G--1- | |
| R646 | RL 0,60W 221 OHM+-1%TK50 RESISTOR | RL 0083.0084.00 | RESISTA | MK2 | |
| R647 | RL 0,60W 121 OHM+-1%TK50 RESISTOR | RL 0082.9859.00 | RESISTA | MK2 | |
| R648 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R649 | RG 2,74OHM+-1%TK100 1206 CHIP-RESISTOR | RG 0007.8365.00 | PHILIPS | RC 02 | |
| R651 | RG 562 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6091.00 | ROEDERSTEI | D25 | |
| R652 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R653 | RL 0,60W 1,50KOHM+-1%TK50 RESISTOR | RL 0083.0732.00 | RESISTA | MK2 | |
| R654 | RL 0,60W 1,50KOHM+-1%TK50 RESISTOR | RL 0083.0732.00 | RESISTA | MK2 | |
| R655 | RG 2,21OHM+-1%TK100 1206 CHIP-RESISTOR | RG 0007.8342.00 | PHILIPS | RC 02 | |
| R657 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R658 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R700 | RG 82,5 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8861.00 | PHILIPS_CO | RC02 | |
| R701 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R702 | RG 475 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6079.00 | ROEDERSTEI | D25 | |
| R704 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R705 | RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR | RG 0815.7532.00 | PHILIPS_CO | RC 02 | |
| R706 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R707 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R709 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R710 | RG 121 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8903.00 | ROEDERSTEI | D25 | |
| R720 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R721 | RG 121 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8903.00 | ROEDERSTEI | D25 | |
| R723 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R724 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R730 | RG 332 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5650.00 | PHILIPS_CO | RC02 | |
| R731 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R732 | RG 1,21KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9968.00 | ROEDERSTEI | D25 | |
| R734 | RG 121 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8903.00 | ROEDERSTEI | D25 | |
| R735 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R741 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R742 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| R743 | RG 68,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8849.00 | ROEDERSTEI | D25 | |
| R745 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R747 | RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.0770.00 | ROEDERSTEI | D25 | |
| R748 | RG 8,25KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.0770.00 | ROEDERSTEI | D25 | |
| R750 | RG 332 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5650.00 | PHILIPS_CO | RC02 | |
| R751 | RG 332 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5650.00 | PHILIPS_CO | RC02 | |
| R753 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R754 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R760 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R761 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R800 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R803 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R815 | RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5508.00 | ROEDERSTEI | D25 | |
| R816 | RG 27,4 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5508.00 | ROEDERSTEI | D25 | |
| R817 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R819 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R820 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP O-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R821 | RG 562 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9068.00 | PHILIPS_CO | RC02 | |
| R822 | RL 0,60W 332 OHM+-1%TK50 RESISTOR | RL 0083.0255.00 | RESISTA | MK2 | |
| R824 | RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR | RG 0006.8649.00 | PHILIPS_CO | RC02 | |
| R825 | RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5950.00 | ROEDERSTEI | D25 | |
| R826 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R831 | RL 0,60W 1KOHM+-1%TK50 RESISTOR | RL 0082.2160.00 | RESISTA | MK2 | |
| R833 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R835 | RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R836 | RG 33,2 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R837 | RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5489.00 | ROEDERSTEI | D25 | |
| R838 | RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5766.00 | PHILIPS_CO | RC02 | |
| R839 | RG 47,5KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5950.00 | ROEDERSTEI | D25 | |
| R840 | RG 221 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5614.00 | ROEDERSTEI | D25 | |
| R841 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R842 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R843 | RG 182 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5595.00 | ROEDERSTEI | D25 | |
| R844 | RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5808.00 | ROEDERSTEI | D25 | |
| R845 | RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5808.00 | ROEDERSTEI | D25 | |
| R846 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R848 | RG 357 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5666.00 | ROEDERSTEI | D25 | |
| R850 | RG 100,0KOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R851 | RS 0,25W 2KOHM +-20% SMD POTENTIOMETER | RS 0007.9626.00 | BI_TECHNOL | 23 B R... TR | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 19+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| R852 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R854 | RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR | RG 0815.7532.00 | PHILIPS_CO | RC 02 | |
| R855 | RG 274 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5637.00 | ROEDERSTEI | D25 | |
| R856 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R857 | RG 274 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5637.00 | ROEDERSTEI | D25 | |
| R858 | RL 0,60W 1KOHM+-1%TK50 RESISTOR | RL 0082.2160.00 | RESISTA | MK2 | |
| R859 | RL 0,60W 1KOHM+-1%TK50 RESISTOR | RL 0082.2160.00 | RESISTA | MK2 | |
| R861 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R863 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R866 | RG 274 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.4460.00 | ROEDERSTEI | D25 | |
| R867 | RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5808.00 | ROEDERSTEI | D25 | |
| R868 | RG 121 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8903.00 | ROEDERSTEI | D25 | |
| R869 | RG 130,OKOH+-1%TK100 1206 RESISTOR CHIP | RG 0007.5966.00 | ROEDERSTEI | D25 | |
| R870 | RG 22,1KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5872.00 | ROEDERSTEI | D25 | |
| R871 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R872 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R873 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R874 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R875 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R876 | RG 392 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5672.00 | ROEDERSTEI | D25 | |
| R899 | RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR | RG 0815.7532.00 | PHILIPS_CO | RC 02 | |
| U600 | BM LRMS-2H-2 MIXER 1GHZ MIXER | 1039.1333.00 | MINI-CIRCU | LRMS-2H-2 | |
| V1 ..6 | AX 5082-0030 PINDI.CHIP PIN DIODE CHIP | 0093.4124.00 | HEWLETT_PA | 5082-0030 | 1038.7444.01 |
| V200 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V201 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V217 | AE 1N827 6,2V REF DI REFERENCE DIODE | AE 0418.0029.00 | COMPENSATE | 1N827(A) | |
| V310 | AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.) NUR VAR/ONLY MOD: 04 | 4001.5082.00 | SIEMENS | BAR61(Q62702A120) | |
| V315 | AE BAR61 3X(PI) 100V PIN PIN DIODE ARRAY (ATTENU.) NUR VAR/ONLY MOD: 04 | 4001.5082.00 | SIEMENS | BAR61(Q62702A120) | |
| V318 | AD BAV99 70V DUO UDI DIODE NUR VAR/ONLY MOD: 04 | AD 0911.0092.00 | VALVO | BAV99 | |
| V319 | AD BAV99 70V DUO UDI DIODE NUR VAR/ONLY MOD: 04 | AD 0911.0092.00 | VALVO | BAV99 | |
| V330 | AD BAV99 70V DUO UDI DIODE NUR VAR/ONLY MOD: 04 | AD 0911.0092.00 | VALVO | BAV99 | |
| V333 | AD BAV99 70V DUO UDI DIODE NUR VAR/ONLY MOD: 04 | AD 0911.0092.00 | VALVO | BAV99 | |
| V349 | AD BAV99 70V DUO UDI DIODE NICHT BESTUECKT | AD 0911.0092.00 | VALVO | BAV99 | |
| V350 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafel für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 20+ |

| Kennz. Comp. No. | Benennung Designation | | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|-------------|-----|----------------------|-------------------------|-------------------------|---------------------------|
| V351 | AD BAS32 | 75V | UDI | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V352 | AD BAS32 | 75V | UDI | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V400 | AE BAR61 3X(PI) | 100V PIN | | 4001.5082.00 | SIEMENS | BAR61(Q62702A120) | |
| V404 | AD BAV99 | 70V DUO | UDI | AD 0911.0092.00 | VALVO | BAV99 | |
| V405 | AD BAV99 | 70V DUO | UDI | AD 0911.0092.00 | VALVO | BAV99 | |
| V411 | AD BAS32 | 75V | UDI | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V430 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V431 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V432 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V433 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V434 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V435 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V436 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V437 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V438 | AK BCX70H | N 45V 200MA | | AK 0007.3105.00 | VALVO | BCX 70 H | |
| V500 | NUR VAR/ONLY MOD: 04 AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V502 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V505 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V510 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V511 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V512 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V514 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V515 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V516 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V520 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V520 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V523 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V530 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V532 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V535 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V536 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V539 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V540 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V543 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V544 | DUAL PIN DIODE | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V548 | AE BAR64-04 CA DOPPEL PIN | | | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V600 | AE BZX55/B6V2 | 0,5W ZDI | | AE 0012.2161.00 | PHILIPS | BZX79B6V2 | |
| V602 | AK BFQ34T | N 18V 150MA | | 0801.8283.00 | PHILIPS | BFQ34T | |
| | | TRANSISTOR | | | | | |

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| 1GPK | 502 | 3PU-D | AI | Datum Date | Sachteiliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
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|  | | | | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA 21+ |

095 0026-0693

| Kannz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| V604 | AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1010.6214.00 | HEWLETT_PA | HSMS2825 L31 | |
| V606 | AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1010.6214.00 | HEWLETT_PA | HSMS2825 L31 | |
| V608 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V610 | AE BZV55/C5V1 0.5W ZDI ZENER DIODE | AE 0006.9839.00 | PHILIPS_SE | BZV55B5V1 (GEG) | |
| V612 | AK BFQ34T N 18V 150MA TRANSISTOR | 0801.8283.00 | PHILIPS | BFQ34T | |
| V635 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V636 | AE 1N827 6,2V REF DI REFERENCE DIODE | AE 0418.0029.00 | COMPENSATE | 1N827(A) | |
| V700 | AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1010.6214.00 | HEWLETT_PA | HSMS2825 L31 | |
| V705 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V707 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V720 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V725 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V730 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V735 | AE BAR64-04 CA DOPPEL PIN DUAL PIN DIODE | 1039.1327.00 | SIEMENS | BAR6404 (Q62702-A101 | |
| V745 | AE BZV55/C6V2 0,5W ZDI ZENER DIODE | AE 0006.9851.00 | PHILIPS | BZV55B6V2 | |
| V746 | AE BZV55/C6V2 0,5W ZDI ZENER DIODE | AE 0006.9851.00 | PHILIPS | BZV55B6V2 | |
| V747 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V748 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V822 | AK AT-64020 TRANSISTOR TRANSISTOR | 1039.1404.00 | AVANTEK | AT-64020 | |
| V825 | AK BCX71J P 45V 200MA TRANSISTOR | AK 0007.2096.00 | VALVO | BCX71J GEGURTET | |
| V830 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V831 | AK BCP68-16 N 20V TRANS TRANSISTOR BCP68 | 0008.2019.00 | PHILIPS | BCP68-25 | |
| V832 | AK BCX71J P 45V 200MA TRANSISTOR | AK 0007.2096.00 | VALVO | BCX71J GEGURTET | |
| V837 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V844 | AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1010.6214.00 | HEWLETT_PA | HSMS2825 L31 | |
| V850 | AE HSMS2825 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1010.6214.00 | HEWLETT_PA | HSMS2825 L31 | |
| V857 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V870 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V871 | AE 1N827 6,2V REF DI REFERENCE DIODE | AE 0418.0029.00 | COMPENSATE | 1N827(A) | |
| W1 ..5 | MZ LOETF AHNE | 0912.1457.00 | | | 1038.7444.01 |
| X1 | FP STECKERLEISTE 72P. 2R CONNECTOR 72P 60 PINS | FP 0007.9932.00 | BINDER | 742-5-11-0195-00-72 | |
| X10 | FP STECKERLEISTE 64P. CONNECTOR 64P. | FP 0008.5747.00 | SIEMENS | V42254-B1200-B610 | |
| X101 | FJ EINBAUWINKELST. SMC ANGLE CONNECTOR | FJ 0249.9684.00 | IMS | 82.1524.201 | |
| X104 | FJ EINBAUSTECKER F.GS SMB ANGLE CONNECTOR | FJ 0602.8804.00 | IMS | 81.1524.201 | |
| X105 | FJ EINBAUSTECKER F.GS SMB ANGLE CONNECTOR | FJ 0602.8804.00 | IMS | 81.1524.201 | |
| X108 | FJ EINBAUWINKELST. SMC ANGLE CONNECTOR | FJ 0249.9684.00 | IMS | 82.1524.201 | |
| Z81 | LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER | LD 0008.5901.00 | OXLEY | SLT/P/22000/SM3 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafeliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 22+ | |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalt in contained in |
|---------------------|--|-------------------------|----------------------------|----------------------------|----------------------------|
| Z82 | LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER | LD 0008.5901.00 | OXLEY | SLT/P/22000/SM3 | |
| Z83 | LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER | LD 0008.5901.00 | OXLEY | SLT/P/22000/SM3 | |
| Z85 | LD SMD-T-FILTER 3,3NF SMD-FILTER | 1039.1362.00 | MURATA | NFM61R20T332T1 | |
| Z86 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z87 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z88 | LD SMD-T-FILTER 3,3NF SMD-FILTER | 1039.1362.00 | MURATA | NFM61R20T332T1 | |
| Z89 | LD SMD-T-FILTER 3,3NF SMD-FILTER | 1039.1362.00 | MURATA | NFM61R20T332T1 | |
| Z90 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z91 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z92 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z93 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z94 | LD SMD-T-FILTER 100PF SMD-FILTER | 1039.1356.00 | MURATA | NFM61ROOT101T1 | |
| Z95 | LD SMD-T-FILTER 3,3NF SMD-FILTER | 1039.1362.00 | MURATA | NFM61R20T332T1 | |
| Z700 | LD SMD PI-FILTER 10GHZ SURFACE-MOUNT-FILTER | LD 0008.5901.00 | OXLEY | SLT/P/22000/SM3 | |

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| 1GPK | 502 3PU-D | AI | Datum Date | Schaltteilliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 30 | 04.02.98 | ED AUSGANGSTEIL 1.5 GHZ OUTPUT UNIT 1.5GHZ | 1038.7780.01 SA | 23- |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---------------------|---|-------------------------|----------------------------|----------------------------|------------------------------|
| C100 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C101 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C102 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C103 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C104 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C105 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C106 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C107 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C108 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C130 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C131 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C132 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C140 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C141 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C142 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C143 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C149 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C150 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..154 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C156 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C157 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C160 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C161 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C162 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C170 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C202 | CC 1NF+-1% 50V NPO 1206 SMD CERAMIC CAPACITOR | CC 0007.7398.00 | PHILIPS_CO | 2222 863 *8102 | |
| C212 | CC 47NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5195.00 | PHILIPS_CO | 2238 581 15645 | |
| C214 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..219 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C240 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C241 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C242 | CE 22 UF+-20%16V 7X 5X11 ELECTROLYTIC CAPACITOR | CE 0022.8091.00 | KEMET | T340 C226M016 AS | |
| C259 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C260 | CC 1,8NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0007.7423.00 | PHILIPS_CO | 2222 863 18182 | |
| C261 | CC 1,8NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0007.7423.00 | PHILIPS_CO | 2222 863 18182 | |
| C276 | CE 22UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7298.00 | KEMET | T491 D 226 K 010 AS | |
| C277 | CE 22UF +-10% 10V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7298.00 | KEMET | T491 D 226 K 010 AS | |
| C285 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C290 | CC 220NF+-10%50V X7R 1210 CERAMIC CAPACITOR CHIP | CC 0520.6850.00 | AVX | 1210 5C 224KA 11A | |
| C291 | CC 82NF +-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5220.00 | PHILIPS_CO | 2238 581 15648 | |
| C302 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|---|----------------------|-------------------------|-------------------------|---------------------------|
| C305 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C306 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C307 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C309 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | MURATA | GRM42-6COG 220F 50PT | |
| C310 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | MURATA | GRM42-6COG 220F 50PT | |
| C319 | CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8815.00 | MURATA | GRM42-6COG 680F 50PT | |
| C319 | NUR VAR/ONLY MOD: 06 CC 12PF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8744.00 | MURATA | GRM42-6COG 120 F50PT | |
| C320 | NUR VAR/ONLY MOD: 04 CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8815.00 | MURATA | GRM42-6COG 680F 50PT | |
| C320 | NUR VAR/ONLY MOD: 04 CC 120PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8838.00 | MURATA | GRM42-6COG 121F 50PT | |
| C322 | NUR VAR/ONLY MOD: 06 CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C323 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C324 | CC 10PF+-0,25 50VNPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8480.00 | MURATA | GRM42-6COG 100 C50PT | |
| C331 | NICHT BESTUECKT/NOT IN PCB CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C335 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C340 | NICHT BESTUECKT/NOT IN PCB CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | MURATA | GRM42-6COG 220F 50PT | |
| C342 | CC 4,7NF+-10%50VX7R 1206 CERAMIC CHIP CAPACITOR | CC 0099.8450.00 | PHILIPS_CO | 2238 581 16623 | |
| C343 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| C344 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C345 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C350 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..359 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C361 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C362 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C363 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C365 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..370 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C373 | CC 120PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8838.00 | MURATA | GRM42-6COG 121F 50PT | |
| C374 | NUR VAR/ONLY MOD: 04 CC 68PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8815.00 | MURATA | GRM42-6COG 680F 50PT | |
| C375 | CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8415.00 | MURATA | GRM42-6COG 101F 50PT | |
| ..378 | NICHT BESTUECKT | | | | |
| D100 | BL PC74HCT132T 4X2IN SCHM NAND SCHMITT TRIGGER | BL 0007.6340.00 | PHILIPS | (PC)74HCT132(D/T) | |
| D102 | BL PC74HC4094T 8ST.BUSREG BUS REGISTER | BL 0804.0977.00 | PHILIPS_SE | (PC)74HC4094(D/T) | |
| D105 | BL PC74HC08T 4X2IN.ANDG QUAD 2INPUT AND GATE | BL 0007.3486.00 | PHILIPS_SE | (PC)74HC08(D/T) | |
| D110 | BL PC74HC4094T 8ST.BUSREG BUS REGISTER | BL 0804.0977.00 | PHILIPS_SE | (PC)74HC4094(D/T) | |
| D115 | BL PC74HC86T 4X2IN EXOR QUAD 2INPUT EXOR GATE | BL 0007.3511.00 | PHILIPS_SE | (PC)74HC86(D/T) | |
| D120 | BL PC74HC4094T 8ST.BUSREG BUS REGISTER | BL 0804.0977.00 | PHILIPS_SE | (PC)74HC4094(D/T) | |
| D121 | BL PC74HC4094T 8ST.BUSREG BUS REGISTER | BL 0804.0977.00 | PHILIPS_SE | (PC)74HC4094(D/T) | |

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|------------------|--|----------------------|-------------------------|-------------------------|----------------------------|
| D140 | BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D145 | BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D150 | BJ DAC8143 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D210 | BL PC74HCT4051T 8CH.A.MUX ANALOG MULTIPLEXER | BL 0007.6827.00 | PHILIPS | (PC)74HCT4051(T) | |
| D230 | BL PC74HC4052T 2X4CH.MUX MULTIPLEXER | BL 0804.1044.00 | PHILIPS_SE | (PC)74HC4052(D/T) | |
| D300 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D310 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D315 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D320 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| D325 | BS DG413DY 2A2R ANALOGSCH QUAD ANALOG CMOS.SWITCH | 1004.7058.00 | SILICONIX | DG413DY | |
| L100 | LD 10UH 10% 0,18A 1210 SMD-INDUCTOR | LD 0007.9255.00 | SIEMENS | B82422-A1103-J(K)100 | |
| L101 | LD 10UH 10% 0,18A 1210 SMD-INDUCTOR | LD 0007.9255.00 | SIEMENS | B82422-A1103-J(K)100 | |
| L102 | LD 10UH 10% 0,18A 1210 SMD-INDUCTOR | LD 0007.9255.00 | SIEMENS | B82422-A1103-J(K)100 | |
| L130 | LD 1UH 10% 0,38A 1210 SMD-INDUCTOR | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L131 | LD 1UH 10% 0,38A 1210 SMD-INDUCTOR | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L140 | LD 1UH 10%OR45 0,1A1206 SMD MULTILAYER INDUCTOR | 0007.4824.00 | TOKO | MLF 3216 A 1RO KL | |
| L141 | LD 1UH 10%OR45 0,1A1206 SMD MULTILAYER INDUCTOR | 0007.4824.00 | TOKO | MLF 3216 A 1RO KL | |
| L142 | LD 1UH 10%OR45 0,1A1206 SMD MULTILAYER INDUCTOR | 0007.4824.00 | TOKO | MLF 3216 A 1RO KL | |
| L143 | LD 1UH 10%OR45 0,1A1206 SMD MULTILAYER INDUCTOR | 0007.4824.00 | TOKO | MLF 3216 A 1RO KL | |
| N130 | BO NE5532D 2XLN OPAMP OPERATIONAL AMPLIFIER | 0007.7798.00 | SIGNETICS | NE5532D | |
| N200 | BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER | 0007.7823.00 | TEXAS | TLO74A(CD) | |
| N240 | BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER | 0007.7823.00 | TEXAS | TLO74A(CD) | |
| N323 | BO TLO72ACD 2XFET OPAMP OPERATIONAL AMPLIFIER | 0803.1057.00 | TEXAS | TL 072 ACDR | |
| N328 | BO TLO74ACD 4XFET OPAMP OPERATIONAL AMPLIFIER | 0007.7823.00 | TEXAS | TLO74A(CD) | |
| N335 | BO NE5534D OPAMP OPERATIONAL AMPLIFIER | 0815.7555.00 | SIGNETICS | NE5534(D) | |
| R100 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R101 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R102 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R103 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R104 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R107 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R108 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R111 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R112 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R113 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R114 | RG 47,5 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5566.00 | ROEDERSTEI | D25 | |
| R115 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| R116 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R119 | RG 825 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.7259.00 | ROEDERSTEI | D25 | |
| R120 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R121 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R122 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R123 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R130 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R131 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R132 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R149 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R160 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R161 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R162 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R163 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R165 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R166 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R167 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R168 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R170 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R171 | RG 100,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R172 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R173 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R206 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R209 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R210 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R211 | RG 182 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5989.00 | ROEDERSTEI | D25 | |
| R212 | RG 15,OKOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5843.00 | ROEDERSTEI | D25 | |
| R213 | RG 121,OKOH+-1%TK100 1206 CHIP RESISTOR | RG 0007.1960.00 | ROEDERSTEI | D25 | |
| R214 | RG 56,2KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.1883.00 | ROEDERSTEI | D25 | |
| R215 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R215 | NUR VAR/ONLY MOD: 06 RG 2,74KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5766.00 | PHILIPS_CO | RC02 | |
| R235 | NUR VAR/ONLY MOD: 04 RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5737.00 | ROEDERSTEI | D25 | |
| R241 | RG 10,OKOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| ..248 | RG 20,OKOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R250 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| ..256 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R259 | RL 0,60W 215 KOHM+-1%TK50 RESISTOR | RL 0083.2264.00 | RESISTA | MK2 | |
| R260 | RL 0,60W 30,9KOHM+-1%TK50 RESISTOR | RL 0083.1645.00 | RESISTA | MK2 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---------------------|---|-------------------------|----------------------------|----------------------------|------------------------------|
| R263 | RL 0,60W 56,2KOHM+-1%TK50 RESISTOR | RL 0082.2231.00 | RESISTA | MK2 | |
| R264 | RL 0,60W 10,5KOHM+-1%TK50 RESISTOR | RL 0083.1300.00 | RESISTA | MK2 | |
| R265 | RL 0,60W 18,2KOHM+-1%TK50 RESISTOR | RL 0083.1480.00 | RESISTA | MK2 | |
| R266 | RL 0,60W 2,74KOHM+-1%TK50 RESISTOR | RL 0083.0926.00 | RESISTA | MK2 | |
| R267 | RL 0,60W 2,80KOHM+-1%TK50 RESISTOR | RL 0083.0932.00 | RESISTA | MK2 | |
| R268 | RL 0,60W 215 KOHM+-1%TK50 RESISTOR | RL 0083.2264.00 | RESISTA | MK2 | |
| R269 | RL 0,60W 30,9KOHM+-1%TK50 RESISTOR | RL 0083.1645.00 | RESISTA | MK2 | |
| R270 | RL 0,60W 56,2KOHM+-1%TK50 RESISTOR | RL 0082.2231.00 | RESISTA | MK2 | |
| R271 | RL 0,60W 10,5KOHM+-1%TK50 RESISTOR | RL 0083.1300.00 | RESISTA | MK2 | |
| R272 | RL 0,60W 18,2KOHM+-1%TK50 RESISTOR | RL 0083.1480.00 | RESISTA | MK2 | |
| R273 | RL 0,60W 2,74KOHM+-1%TK50 RESISTOR | RL 0083.0926.00 | RESISTA | MK2 | |
| R274 | RL 0,60W 2,80KOHM+-1%TK50 RESISTOR | RL 0083.0932.00 | RESISTA | MK2 | |
| R275 | RG 1,5MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9955.00 | PHILIPS_CO | RC 01 | |
| R276 | RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.0735.00 | ROEDERSTEI | D25 | |
| R277 | RG 2,43KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5750.00 | ROEDERSTEI | D25 | |
| R278 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R279 | RG 475 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6079.00 | ROEDERSTEI | D25 | |
| R280 | RG 475 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5695.00 | ROEDERSTEI | D25 | |
| R281 | RG 1,0MOHM+-1%TK100 1206 CHIP RESISTOR | RG 0815.7532.00 | PHILIPS_CO | RC 02 | |
| R282 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R283 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R285 | RG 10,0 OHM+-1%TK100 1206 CHIP -RESISTOR | RG 0006.8649.00 | PHILIPS_CO | RC02 | |
| R286 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R287 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R288 | RG 1,5 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5714.00 | ROEDERSTEI | D25 | |
| R289 | RG 200 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5995.00 | ROEDERSTEI | D25 | |
| R290 | RG 392 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6056.00 | ROEDERSTEI | D25 | |
| R291 | RG 562 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6091.00 | ROEDERSTEI | D25 | |
| R295 | RG 392 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.6056.00 | ROEDERSTEI | D25 | |
| R296 | RG 1,3 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5708.00 | ROEDERSTEI | D25 | |
| R297 | RG 3,92KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5808.00 | ROEDERSTEI | D25 | |
| R298 | RS 0,25W500 OHM+-20% SMD POTENTIOMETER | RS 0007.9603.00 | BI_TECHNOL | 23 B R... TR | |
| R300 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R301 | RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R302 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R303 | RG 274 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5637.00 | ROEDERSTEI | D25 | |
| R304 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R305 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R307 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |

Für diese Unterlage behalten wir uns alle Rechte vor.

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| | | | | | | |
|---|---------------------------|----|---------------|---------------------------------------|------------------------|------------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Schalttaelliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHM & SCHWARZ | 16 | 04.02.98 | ED NF-TEIL | 1038.7996.01 SA | 5+ |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|------------------|--|----------------------|-------------------------|-------------------------|---------------------------|
| R308 | RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5820.00 | ROEDERSTEI | D25 | |
| R311 | RG 5,62KOHM+-1%TK100 1206 CHIP RESISTOR | RG 0007.0735.00 | ROEDERSTEI | D25 | |
| R311 | NUR VAR/ONLY MOD: 06 RG 4,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5814.00 | ROEDERSTEI | D25 | |
| R312 | NUR VAR/ONLY MOD: 04 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R313 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R314 | RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5789.00 | ROEDERSTEI | D25 | |
| R315 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R316 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R318 | NICHT BESTUECKT/NOT IN PCB RG 4,32KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5814.00 | ROEDERSTEI | D25 | |
| R318 | NUR VAR/ONLY MOD: 06 RG 0-OHM WIDERSTAND-CHIP RESISTOR CHIP 0-OHM | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R319 | NUR VAR/ONLY MOD: 04 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R336 | NICHT BESTUECKT RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R337 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R340 | RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| R341 | RG 20,0KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5866.00 | ROEDERSTEI | D25 | |
| R342 | RG 100 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8884.00 | PHILIPS_CO | RC02 | |
| R350 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R351 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R352 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R353 | NICHT BESTUECKT/NOT IN PCB RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R354 | NUR VAR/ONLY MOD: 04 RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5743.00 | ROEDERSTEI | D25 | |
| R355 | NUR VAR/ONLY MOD: 04 RG 10,0KOHM+-1%TK100 1206 RG CHIP RESISTOR | RG 0007.0793.00 | PHILIPS_CO | RC02 | |
| ..358 | NICHT BESTUECKT RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5743.00 | ROEDERSTEI | D25 | |
| R359 | NUR VAR/ONLY MOD: 06 RG 182 KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5989.00 | ROEDERSTEI | D25 | |
| R360 | NUR VAR/ONLY MOD: 04 RG 2,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9978.00 | ROEDERSTEI | D 25 | |
| ..363 | RG 2,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9978.00 | ROEDERSTEI | D 25 | |
| R364 | RG 2,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9978.00 | ROEDERSTEI | D 25 | |
| R365 | RG 2,2MOHM+-5%TK200 1206 CHIP RESISTOR | 0007.9978.00 | ROEDERSTEI | D 25 | |
| R399 | RG 1,0 KO +-1%TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | PHILIPS_CO | RC02 | |
| R399 | NUR VAR/ONLY MOD: 06 RG 33,2KOHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5914.00 | ROEDERSTEI | D25 | |
| V110 | NUR VAR/ONLY MOD: 04 AE 1N827 6,2V REFDI REFERENCE DIODE | AE 0418.0029.00 | COMPENSATE | 1N827(A) | |
| V130 | AD BAV99 70V DUO UDI DIODE | AD 0911.0092.00 | VALVO | BAV99 | |

| | | | | | | |
|--|-----------------|----|------------|------------------------------------|---------------------|---------------|
| 1GPK | 502 3PU-D | AI | Datum Date | Schalttafeliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  | ROHDE & SCHWARZ | 16 | 04.02.98 | ED NF-TEIL | 1038.7996.01 SA | 6+ |

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|--|--|-------------------------|---------------------------------------|----------------------------|------------------------------|
| V211 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V212 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V235 | AE BZV55/C5V1 0.5W ZDI ZENER DIODE | AE 0006.9839.00 | PHILIPS_SE | BZV55B5V1 (GEG) | |
| V242 | AE BZX79/B9V1 0,5W ZDI ZENER DIODE | AE 0491.7507.00 | VALVO | BZX79B9V1 | |
| V270 | AM BSR58 N-D 40V JFET JFET | 2020.3672.00 | PHILIPS | BSR58 | |
| V280 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V281 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V282 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V290 | AD BAS32 75V UDI DIODE | AD 0006.7288.00 | PHILIPS | BAS32 (L) | |
| V319 | NICHT BESTUECKT/NOT IN PCB AE 5082-2800 SCHOTTKY DIODE | AE 0012.9066.00 | HEWLETT_PA | 5082-2800 | |
| V390 | NUR VAR/ONLY MOD: 06 AD 1N4448 75V UDI DIODE NUR VAR/ONLY MOD: 06 | AD 0012.0700.00 | PHILIPS_SE | 1N4448 " | |
| X1 | FP BUCHSENLEISTE 60POL. CONNECTOR | FP 6024.3272.00 | BERG_ELEKT | 89892-330 | |
| X290 | FP STIFTL.WIN 36P.R2,54 ANGLE PIN CONNECTOR 2-POLIG | FP 0243.3578.00 | BINDER | 742-5-11-0187-00-36 | |
| X305 | FP STIFTL.WIN 36P.R2,54 ANGLE PIN CONNECTOR 4-POLIG | FP 0243.3578.00 | BINDER | 742-5-11-0187-00-36 | |
| 1GPK | 502 3PU-D AI | Datum Date | Schaltteilliste für Parts list for | Sachnummer Stock No | Blatt-Nr Page |
|  ROHDE & SCHWARZ | 16 | 04.02.98 | ED NF-TEIL | 1038.7996.01 SA | 7- |

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XY-Liste

XY List

Erklärung der Spaltenbezeichnungen:

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

Explanation of column designations:

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

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|------|------|-----|-----|-----|----|------|------|-----|-----|-----|----|------|------|-----|-----|-----|----|
| A101 | B | 293 | 130 | 5F | 4 | C355 | B | 278 | 107 | 8D | 4 | C545 | B | 249 | 20 | 6B | 6 |
| C1 | B | 227 | 114 | 1A | 2 | C356 | B | 274 | 107 | 8C | 4 | C546 | B | 276 | 21 | 6B | 6 |
| C6 | A | 206 | 133 | 2A | 2 | C357 | B | 282 | 100 | 9D | 4 | C547 | B | 255 | 15 | 7B | 6 |
| C7 | B | 140 | 129 | 2A | 2 | C359 | A | 273 | 92 | 10E | 4 | C553 | A | 225 | 21 | 7C | 6 |
| C8 | B | 120 | 116 | 3A | 2 | C360 | B | 283 | 86 | 10D | 4 | C560 | B | 201 | 13 | 8B | 6 |
| C50 | A | 196 | 126 | 7C | 2 | C361 | B | 290 | 70 | 12D | 4 | C562 | B | 186 | 20 | 9B | 6 |
| C51 | B | 185 | 86 | 10E | 2 | C362 | A | 266 | 66 | 11E | 4 | C564 | B | 198 | 22 | 9B | 6 |
| C52 | B | 172 | 86 | 10F | 2 | C400 | A | 266 | 69 | 2C | 5 | C568 | B | 222 | 41 | 10B | 6 |
| C201 | A | 130 | 123 | 4E | 3 | C401 | B | 272 | 72 | 3D | 5 | C569 | A | 223 | 38 | 10C | 6 |
| C202 | B | 129 | 119 | 4D | 3 | C402 | B | 283 | 74 | 4D | 5 | C570 | B | 211 | 43 | 10B | 6 |
| C203 | B | 129 | 111 | 4D | 3 | C404 | A | 279 | 65 | 3C | 5 | C571 | B | 211 | 34 | 10C | 6 |
| C206 | A | 181 | 118 | 9E | 3 | C405 | A | 279 | 61 | 4C | 5 | C573 | B | 203 | 43 | 11B | 6 |
| C208 | A | 197 | 110 | 10E | 3 | C410 | A | 271 | 76 | 5E | 5 | C575 | B | 195 | 43 | 11B | 6 |
| C210 | A | 99 | 128 | 8D | 3 | C412 | B | 276 | 79 | 5D | 5 | C580 | B | 187 | 46 | 11C | 6 |
| C212 | A | 106 | 148 | 8D | 3 | C417 | A | 250 | 84 | 7E | 5 | C582 | B | 178 | 46 | 11D | 6 |
| C218 | B | 90 | 123 | 10C | 3 | C440 | A | 188 | 30 | 9B | 5 | C583 | B | 178 | 34 | 12D | 6 |
| C219 | B | 105 | 109 | 10C | 3 | C445 | B | 251 | 68 | 1C | 6 | C584 | B | 170 | 39 | 12D | 6 |
| C221 | A | 170 | 112 | 10D | 3 | C500 | B | 249 | 76 | 1E | 6 | C585 | A | 191 | 84 | 2A | 6 |
| C222 | A | 132 | 115 | 10C | 3 | C501 | A | 240 | 79 | 2F | 6 | C599 | B | 174 | 46 | 9D | 6 |
| C224 | A | 112 | 111 | 10B | 3 | C502 | B | 243 | 65 | 2D | 6 | C600 | B | 144 | 67 | 1D | 7 |
| C230 | A | 163 | 124 | 6F | 3 | C503 | A | 239 | 62 | 3F | 6 | C601 | B | 139 | 73 | 1D | 7 |
| C231 | A | 170 | 121 | 7E | 3 | C504 | B | 233 | 64 | 3E | 6 | C602 | B | 134 | 83 | 2E | 7 |
| C233 | B | 139 | 118 | 3D | 3 | C505 | B | 235 | 58 | 3E | 6 | C603 | B | 147 | 80 | 2D | 7 |
| C243 | A | 154 | 114 | 2B | 3 | C506 | B | 223 | 56 | 3E | 6 | C604 | B | 119 | 78 | 3D | 7 |
| C244 | A | 148 | 117 | 3B | 3 | C507 | B | 223 | 65 | 4E | 6 | C605 | B | 102 | 84 | 3E | 7 |
| C245 | A | 149 | 123 | 2A | 3 | C508 | B | 230 | 79 | 3E | 6 | C606 | B | 102 | 76 | 4E | 7 |
| C246 | A | 122 | 128 | 4B | 3 | C509 | A | 217 | 67 | 4F | 6 | C607 | B | 104 | 67 | 4E | 7 |
| C247 | A | 136 | 136 | 4A | 3 | C510 | B | 216 | 62 | 5E | 6 | C608 | B | 95 | 74 | 4E | 7 |
| C248 | A | 113 | 138 | 3B | 3 | C511 | B | 202 | 53 | 5E | 6 | C609 | A | 132 | 67 | 2E | 7 |
| C249 | A | 116 | 124 | 3B | 3 | C512 | B | 204 | 67 | 5E | 6 | C610 | A | 123 | 97 | 2C | 7 |
| C250 | A | 113 | 136 | 3A | 3 | C513 | B | 210 | 79 | 5E | 6 | C611 | A | 147 | 90 | 4C | 7 |
| C253 | A | 179 | 125 | 4B | 3 | C514 | A | 197 | 69 | 6F | 6 | C613 | B | 71 | 130 | 4B | 7 |
| C254 | A | 173 | 128 | 4A | 3 | C515 | B | 193 | 67 | 6E | 6 | C614 | B | 74 | 125 | 5B | 7 |
| C255 | A | 93 | 129 | 5B | 3 | C516 | B | 192 | 54 | 6E | 6 | C615 | B | 63 | 137 | 4C | 7 |
| C256 | A | 92 | 137 | 5A | 3 | C517 | B | 181 | 62 | 7E | 6 | C616 | B | 57 | 125 | 5C | 7 |
| C257 | A | 97 | 121 | 6A | 3 | C518 | A | 179 | 66 | 7F | 6 | C617 | B | 55 | 119 | 5C | 7 |
| C300 | B | 264 | 136 | 4D | 4 | C519 | B | 168 | 75 | 8E | 6 | C618 | B | 48 | 127 | 5C | 7 |
| C301 | B | 282 | 133 | 5F | 4 | C520 | B | 168 | 66 | 8E | 6 | C619 | B | 60 | 112 | 5C | 7 |
| C302 | B | 279 | 129 | 5C | 4 | C521 | B | 168 | 58 | 8E | 6 | C620 | B | 73 | 109 | 6C | 7 |
| C303 | B | 269 | 132 | 4D | 4 | C522 | B | 173 | 75 | 8E | 6 | C621 | B | 124 | 89 | 3E | 7 |
| C313 | B | 264 | 126 | 5B | 4 | C523 | B | 174 | 66 | 8E | 6 | C622 | B | 117 | 89 | 3E | 7 |
| C315 | B | 281 | 114 | 5C | 4 | C524 | B | 173 | 58 | 8E | 6 | C625 | B | 73 | 82 | 6D | 7 |
| C316 | B | 276 | 123 | 6C | 4 | C525 | B | 166 | 50 | 9E | 6 | C627 | B | 64 | 78 | 7D | 7 |
| C318 | A | 255 | 121 | 6B | 4 | C526 | A | 173 | 40 | 9F | 6 | C628 | B | 48 | 79 | 8D | 7 |
| C319 | A | 255 | 131 | 6B | 4 | C527 | B | 163 | 41 | 11E | 6 | C629 | B | 52 | 73 | 8D | 7 |
| C325 | B | 263 | 121 | 6D | 4 | C530 | A | 255 | 59 | 2C | 6 | C631 | B | 131 | 77 | 2D | 7 |
| C327 | B | 281 | 111 | 7C | 4 | C531 | B | 241 | 56 | 2C | 6 | C632 | B | 124 | 74 | 2C | 7 |
| C328 | B | 272 | 117 | 7C | 4 | C532 | B | 262 | 55 | 2B | 6 | C633 | B | 57 | 65 | 9D | 7 |
| C329 | A | 268 | 99 | 7B | 4 | C533 | B | 295 | 48 | 2B | 6 | C634 | B | 64 | 66 | 8D | 7 |
| C330 | A | 262 | 114 | 7B | 4 | C534 | B | 271 | 49 | 3B | 6 | C635 | B | 81 | 58 | 9D | 7 |
| C340 | B | 265 | 108 | 8B | 4 | C536 | A | 236 | 44 | 3C | 6 | C636 | B | 80 | 54 | 9D | 7 |
| C350 | A | 284 | 118 | 5E | 4 | C537 | B | 260 | 37 | 4B | 6 | C637 | B | 75 | 75 | 9E | 7 |
| C351 | A | 285 | 110 | 7E | 4 | C538 | B | 276 | 34 | 4B | 6 | C638 | A | 102 | 99 | 2A | 7 |
| C352 | A | 274 | 105 | 7E | 4 | C539 | B | 258 | 29 | 5B | 6 | C639 | A | 105 | 88 | 3B | 7 |
| C353 | A | 281 | 116 | 6E | 4 | C540 | A | 228 | 32 | 5C | 6 | C640 | B | 93 | 61 | 10E | 7 |



| ROHDE & SCHWARZ | ÄI | Datum Date | XY-Liste für XY-list for | Sach-Nummer Stock-Nr | Blatt Page |
|-----------------|----|---------------|--|-------------------------|---------------|
| | 03 | 22.10.92 | EE AUSGANGSTEIL_1.5GHZ OUTPUT_UNIT_1.5GHZ | 1038.7780.01 XY | 1+ |

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|-----------------------|------|---------------|--|-----|----|--------|-------------------------|---------------|-----|-----|----|--------|------|-----|-----|-----|----|
| C641 | B | 91 | 57 | 10D | 7 | C810 | B | 32 | 15 | 3C | 9 | D250-D | | | | 7C | 3 |
| C642 | B | 107 | 57 | 10D | 7 | C811 | B | 30 | 18 | 3C | 9 | D250-E | | | | 3B | 3 |
| C643 | B | 109 | 43 | 11D | 7 | C815 | B | 25 | 50 | 4C | 9 | D430-A | A | 194 | 41 | 9D | 5 |
| C644 | B | 101 | 39 | 11E | 7 | C816 | B | 29 | 51 | 4C | 9 | D430-B | | | | 9B | 5 |
| C645 | B | 94 | 39 | 11D | 7 | C817 | B | 116 | 25 | 4E | 9 | D431-A | A | 205 | 41 | 10E | 5 |
| C646 | B | 87 | 44 | 11D | 7 | C820 | B | 31 | 78 | 5D | 9 | D431-B | | | | 10E | 5 |
| C650 | A | 123 | 95 | 6A | 7 | C821 | B | 25 | 82 | 6C | 9 | D431-C | | | | 10E | 5 |
| C651 | A | 104 | 95 | 6A | 7 | C822 | B | 31 | 81 | 6D | 9 | D431-D | | | | 10D | 5 |
| C652 | A | 106 | 82 | 6A | 7 | C824 | A | 35 | 43 | 6D | 9 | D431-E | | | | 10D | 5 |
| C653 | A | 105 | 73 | 6A | 7 | C831 | B | 28 | 87 | 6D | 9 | D431-F | | | | 10D | 5 |
| C654 | B | 76 | 55 | 9D | 7 | C833 | B | 17 | 15 | 8E | 9 | D431-G | | | | 10B | 5 |
| C656 | A | 124 | 88 | 2B | 7 | C842 | B | 20 | 114 | 8D | 9 | D432-A | A | 184 | 24 | 10C | 5 |
| C660 | A | 157 | 67 | 4F | 7 | C843 | B | 23 | 114 | 8D | 9 | D432-B | | | | 10C | 5 |
| C661 | A | 142 | 66 | 4F | 7 | C844 | B | 30 | 126 | 9C | 9 | D432-C | | | | 10C | 5 |
| C662 | A | 157 | 79 | 4E | 7 | C846 | B | 34 | 124 | 7C | 9 | D432-D | | | | 11B | 5 |
| C663 | A | 135 | 77 | 4E | 7 | C847 | B | 35 | 114 | 8C | 9 | D432-E | | | | 11B | 5 |
| C668 | A | 161 | 81 | 5F | 7 | C848 | B | 30 | 114 | 8C | 9 | D432-F | | | | 10B | 5 |
| C670 | A | 67 | 30 | 6F | 7 | C850 | A | 32 | 56 | 6A | 9 | D432-G | | | | 9B | 5 |
| C671 | A | 54 | 56 | 7F | 7 | C851 | A | 18 | 62 | 7A | 9 | D760 | B | 94 | 17 | 10D | 8 |
| C700 | B | 162 | 34 | 2D | 8 | C852 | A | 35 | 71 | 6B | 9 | L60 | A | 187 | 97 | 10D | 2 |
| C701 | A | 166 | 23 | 2D | 8 | C853 | A | 26 | 75 | 6C | 9 | L62 | A | 194 | 98 | 10D | 2 |
| C702 | A | 166 | 30 | 2E | 8 | C854 | A | 22 | 120 | 8A | 9 | L63 | A | 201 | 98 | 10D | 2 |
| C705 | B | 148 | 16 | 3C | 8 | C855 | A | 34 | 114 | 8A | 9 | L64 | A | 238 | 98 | 10C | 2 |
| C707 | B | 144 | 28 | 4C | 8 | C870 | A | 15 | 70 | 11B | 9 | L65 | A | 246 | 98 | 10C | 2 |
| C708 | B | 148 | 37 | 4C | 8 | C871 | A | 15 | 77 | 11C | 9 | L66 | A | 212 | 98 | 10C | 2 |
| C709 | A | 148 | 33 | 4C | 8 | D1-A | B | 243 | 128 | 3E | 2 | L67 | A | 228 | 98 | 10C | 2 |
| C710 | A | 145 | 39 | 4C | 8 | D1-B | | | | 1A | 2 | L68 | A | 220 | 98 | 10B | 2 |
| C714 | B | 144 | 43 | 4C | 8 | D5-A | B | 202 | 135 | 6D | 2 | L69 | A | 231 | 98 | 10B | 2 |
| C715 | B | 144 | 55 | 5C | 8 | D5-B | | | | 5D | 2 | L70 | A | 159 | 97 | 10B | 2 |
| C720 | A | 134 | 16 | 4D | 8 | D5-C | | | | 2A | 2 | L78 | B | 158 | 111 | 9E | 2 |
| C721 | B | 137 | 21 | 4D | 8 | D20-A | A | 145 | 130 | 5C | 2 | L79 | A | 156 | 90 | 10E | 2 |
| C723 | A | 130 | 22 | 4D | 8 | D20-B | | | | 2A | 2 | L80 | B | 188 | 113 | 9D | 2 |
| C724 | B | 130 | 23 | 4E | 8 | D50-A | B | 196 | 134 | 7C | 2 | L82 | B | 193 | 113 | 9D | 2 |
| C727 | A | 144 | 49 | 5E | 8 | D50-B | | | | 8E | 3 | L83 | B | 203 | 113 | 9D | 2 |
| C732 | B | 130 | 53 | 6D | 8 | D60-A | A | 122 | 119 | 6C | 2 | L84 | B | 236 | 113 | 9C | 2 |
| C734 | B | 137 | 52 | 7C | 8 | D60-B | | | | 10C | 3 | L85 | B | 240 | 113 | 9C | 2 |
| C735 | A | 134 | 50 | 6C | 8 | D60-C | | | | 10C | 3 | L86 | B | 213 | 113 | 9C | 2 |
| C736 | A | 136 | 60 | 7C | 8 | D60-D | | | | 11C | 3 | L87 | B | 222 | 113 | 9C | 2 |
| C738 | B | 123 | 49 | 7D | 8 | D60-E | | | | 3A | 2 | L88 | B | 218 | 113 | 9B | 2 |
| C740 | B | 122 | 39 | 8D | 8 | D200-A | B | 156 | 116 | 5D | 3 | L89 | B | 230 | 113 | 9B | 2 |
| C742 | A | 123 | 12 | 9E | 8 | D200-B | | | | 5C | 3 | L90 | B | 165 | 111 | 9B | 2 |
| C743 | B | 101 | 15 | 9D | 8 | D200-C | | | | 5C | 3 | L300 | B | 276 | 133 | 4D | 4 |
| C747 | A | 100 | 23 | 10D | 8 | D200-D | | | | 5C | 3 | L305 | B | 274 | 126 | 5C | 4 |
| C748 | A | 97 | 26 | 10D | 8 | D200-E | | | | 2B | 3 | L325 | B | 276 | 119 | 6C | 4 |
| C750 | A | 114 | 22 | 10E | 8 | D202-A | B | 156 | 127 | 5E | 3 | L340 | B | 262 | 111 | 8C | 4 |
| C751 | A | 100 | 30 | 10E | 8 | D202-B | | | | 5D | 3 | L350 | B | 291 | 86 | 10D | 4 |
| C762 | A | 131 | 32 | 7E | 8 | D202-C | | | | 5E | 3 | L351 | B | 290 | 86 | 10D | 4 |
| C800 | A | 160 | 57 | 2B | 9 | D202-D | | | | 5E | 3 | L352 | B | 284 | 116 | 6E | 4 |
| C801 | A | 156 | 51 | 2B | 9 | D202-E | | | | 2B | 3 | L353 | B | 273 | 99 | 10E | 4 |
| C802 | A | 160 | 43 | 2B | 9 | D210-A | A | 102 | 119 | 10C | 3 | L355 | B | 277 | 104 | 9D | 4 |
| C803 | A | 156 | 37 | 2B | 9 | D210-B | | | | 10C | 3 | L356 | B | 283 | 107 | 8E | 4 |
| C804 | A | 160 | 27 | 2A | 9 | D210-C | | | | 6B | 3 | L360 | B | 295 | 64 | 11D | 4 |
| C805 | A | 156 | 34 | 2A | 9 | D250-A | B | 110 | 136 | 3B | 3 | L361 | B | 259 | 66 | 11E | 4 |
| C808 | A | 60 | 29 | 3B | 9 | D250-B | | | | 7C | 3 | L380 | B | 294 | 64 | 11D | 4 |
| C809 | B | 49 | 29 | 3B | 9 | D250-C | | | | 7C | 3 | L400 | B | 283 | 69 | 2D | 5 |
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| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|-----------------------|------|---------------|--|-----|----|--------|-------------------------|---------------|-----|-----|----|--------|------|-----|-----|-----|----|
| L410 | B | 268 | 76 | 4D | 5 | L620 | B | 60 | 126 | 5C | 7 | N200-B | | | | 3B | 3 |
| L416 | B | 244 | 79 | 6D | 5 | L621 | B | 74 | 128 | 5B | 7 | N230-A | B | 167 | 122 | 6E | 3 |
| L417 | B | 257 | 84 | 6E | 5 | L630 | B | 67 | 83 | 7D | 7 | N230-B | | | | 7E | 3 |
| L430 | A | 241 | 63 | 11E | 5 | L632 | B | 58 | 83 | 7D | 7 | N230-C | | | | 4B | 3 |
| L431 | A | 217 | 64 | 11E | 5 | L633 | B | 84 | 83 | 6D | 7 | N233 | B | 139 | 114 | 2D | 3 |
| L432 | A | 196 | 63 | 11E | 5 | L642 | B | 71 | 65 | 9E | 7 | N240-A | B | 180 | 122 | 9E | 3 |
| L500 | B | 233 | 76 | 2E | 6 | L643 | B | 79 | 76 | 9E | 7 | N240-B | | | | 11E | 3 |
| L501 | B | 239 | 58 | 2F | 6 | L644 | B | 101 | 55 | 10E | 7 | N240-C | | | | 5B | 3 |
| L505 | B | 220 | 64 | 4F | 6 | L645 | B | 101 | 52 | 10D | 7 | N250-A | B | 106 | 140 | 8C | 3 |
| L510 | B | 199 | 66 | 6F | 6 | L647 | B | 109 | 46 | 11D | 7 | N250-B | | | | 8C | 3 |
| L517 | B | 177 | 61 | 7F | 6 | L648 | B | 96 | 42 | 11E | 7 | N250-C | | | | 5B | 3 |
| L520 | B | 166 | 33 | 9E | 6 | L649 | B | 96 | 44 | 11D | 7 | N300 | B | 297 | 97 | 9D | 4 |
| L530 | B | 258 | 59 | 2C | 6 | L650 | B | 90 | 43 | 11D | 7 | N360 | B | 297 | 79 | 11D | 4 |
| L532 | B | 259 | 55 | 2B | 6 | L651 | B | 81 | 44 | 12D | 7 | N410 | B | 262 | 80 | 6D | 5 |
| L533 | B | 294 | 52 | 2B | 6 | L660 | A | 157 | 71 | 3F | 7 | N600-A | A | 117 | 98 | 2C | 7 |
| L534 | B | 274 | 50 | 3B | 6 | L661 | A | 142 | 69 | 4F | 7 | N600-B | | | | 2B | 7 |
| L536 | B | 232 | 43 | 3C | 6 | L662 | A | 157 | 76 | 3F | 7 | N600-C | | | | 3B | 7 |
| L537 | B | 257 | 37 | 4B | 6 | L663 | A | 138 | 77 | 4F | 7 | N600-D | | | | 3A | 7 |
| L538 | B | 269 | 37 | 4B | 6 | L668 | A | 157 | 84 | 5F | 7 | N600-E | | | | 6A | 7 |
| L539 | B | 262 | 30 | 5B | 6 | L670 | A | 70 | 30 | 6F | 7 | N610-A | A | 109 | 79 | 3C | 7 |
| L540 | B | 279 | 34 | 4B | 6 | L671 | A | 57 | 57 | 7F | 7 | N610-B | | | | 5A | 7 |
| L541 | B | 253 | 34 | 5B | 6 | L705 | B | 148 | 19 | 3C | 8 | N620 | B | 57 | 136 | 4C | 7 |
| L542 | B | 250 | 29 | 5B | 6 | L706 | B | 135 | 14 | 3C | 8 | N740 | B | 121 | 18 | 8D | 8 |
| L543 | B | 225 | 33 | 5C | 6 | L709 | B | 148 | 32 | 4C | 8 | N820 | B | 25 | 26 | 3C | 9 |
| L544 | B | 270 | 18 | 7B | 6 | L714 | B | 144 | 51 | 5C | 8 | N840-A | A | 28 | 72 | 6B | 9 |
| L545 | B | 242 | 23 | 6B | 6 | L720 | B | 133 | 25 | 4D | 8 | N840-B | | | | 10B | 9 |
| L546 | B | 268 | 23 | 6B | 6 | L727 | A | 144 | 46 | 5E | 8 | N840-C | | | | 11B | 9 |
| L547 | B | 259 | 18 | 7B | 6 | L730 | B | 130 | 40 | 5D | 8 | N840-D | | | | 11C | 9 |
| L548 | B | 262 | 23 | 6B | 6 | L732 | B | 133 | 55 | 7C | 8 | N840-E | | | | 6A | 9 |
| L549 | B | 232 | 23 | 7B | 6 | L738 | B | 122 | 53 | 7D | 8 | N845-A | A | 31 | 119 | 7B | 9 |
| L550 | B | 287 | 23 | 6B | 6 | L739 | B | 122 | 43 | 8D | 8 | N845-B | | | | 7A | 9 |
| L551 | B | 280 | 15 | 7B | 6 | L740 | B | 114 | 11 | 9D | 8 | 303 | B | 295 | 100 | 9D | 4 |
| L553 | B | 225 | 18 | 7C | 6 | L742 | B | 107 | 29 | 9E | 8 | 309 | B | 283 | 81 | 10D | 4 |
| L559 | B | 217 | 17 | 8B | 6 | L748 | B | 106 | 15 | 9D | 8 | 310 | B | 292 | 81 | 11D | 4 |
| L560 | B | 209 | 15 | 8B | 6 | L762 | A | 131 | 35 | 7E | 8 | 413 | B | 264 | 86 | 5D | 5 |
| L561 | B | 196 | 16 | 9B | 6 | L800 | A | 156 | 54 | 2B | 9 | 414 | B | 270 | 86 | 5D | 5 |
| L562 | B | 189 | 16 | 9B | 6 | L801 | A | 156 | 40 | 2B | 9 | 507 | B | 222 | 50 | 3D | 6 |
| L563 | B | 173 | 20 | 9B | 6 | L802 | A | 156 | 30 | 2A | 9 | 509 | B | 222 | 69 | 4D | 6 |
| L564 | B | 193 | 22 | 9B | 6 | L803 | B | 53 | 29 | 3B | 9 | 514 | B | 218 | 58 | 5D | 6 |
| L565 | B | 211 | 24 | 9B | 6 | L807 | B | 62 | 17 | 2C | 9 | 515 | B | 203 | 58 | 5D | 6 |
| L566 | B | 173 | 24 | 9B | 6 | L814 | B | 34 | 25 | 4D | 9 | 516 | B | 201 | 65 | 5D | 6 |
| L568 | B | 227 | 38 | 10C | 6 | L815 | B | 28 | 45 | 4D | 9 | 518 | B | 190 | 64 | 6D | 6 |
| L570 | B | 215 | 43 | 10B | 6 | L816 | B | 72 | 23 | 4D | 9 | 519 | B | 189 | 65 | 6D | 6 |
| L571 | B | 205 | 36 | 11B | 6 | L817 | B | 111 | 23 | 4E | 9 | 520 | B | 178 | 58 | 7D | 6 |
| L572 | B | 197 | 34 | 11B | 6 | L818 | B | 94 | 29 | 4E | 9 | 522 | B | 177 | 77 | 7E | 6 |
| L580 | B | 189 | 34 | 11C | 6 | L820 | B | 28 | 72 | 5D | 9 | 528 | B | 166 | 70 | 8D | 6 |
| L583 | B | 181 | 36 | 11C | 6 | L822 | B | 25 | 63 | 5C | 9 | 529 | B | 166 | 61 | 8D | 6 |
| L584 | B | 172 | 42 | 11D | 6 | L829 | B | 25 | 97 | 8D | 9 | 542 | B | 268 | 55 | 2B | 6 |
| L585 | A | 197 | 84 | 2A | 6 | L830 | B | 19 | 97 | 7D | 9 | 543 | B | 293 | 41 | 2B | 6 |
| L600 | B | 139 | 67 | 2F | 7 | L831 | B | 15 | 120 | 7D | 9 | 544 | B | 291 | 37 | 3B | 6 |
| L601 | B | 133 | 70 | 2E | 7 | L832 | B | 17 | 51 | 7D | 9 | 545 | B | 277 | 41 | 4B | 6 |
| L602 | B | 143 | 86 | 2D | 7 | L833 | B | 20 | 18 | 7E | 9 | 548 | B | 238 | 20 | 6B | 6 |
| L604 | A | 144 | 90 | 4C | 7 | L843 | B | 20 | 126 | 8C | 9 | 550 | B | 170 | 16 | 8B | 6 |
| L608 | B | 102 | 78 | 4E | 7 | L845 | B | 36 | 135 | 9B | 9 | 600 | B | 136 | 83 | 2E | 7 |
| L610 | B | 102 | 69 | 4E | 7 | N200-A | A | 132 | 129 | 3E | 3 | 607 | B | 108 | 69 | 4D | 7 |
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| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|-----------------------|------|---------------|--|-----|----|-------|-------------------------|---------------|-----|-----|----|------|------|-----|-----|-----|----|
| 608 | B | 110 | 69 | 4D | 7 | R30-D | | | | 6E | 2 | R219 | A | 177 | 112 | 11E | 3 |
| 705 | B | 164 | 30 | 2C | 8 | R30-E | | | | 6E | 2 | R220 | A | 180 | 109 | 10E | 3 |
| 740 | B | 123 | 23 | 8D | 8 | R30-F | | | | 6E | 2 | R221 | A | 171 | 109 | 10D | 3 |
| 820 | B | 25 | 39 | 4C | 9 | R30-G | | | | 6E | 2 | R231 | B | 119 | 122 | 9D | 3 |
| 833 | B | 25 | 22 | 3C | 9 | R30-H | | | | 6F | 2 | R232 | A | 94 | 145 | 8C | 3 |
| 851 | B | 30 | 132 | 11D | 9 | R30-I | | | | 6F | 2 | R233 | A | 106 | 145 | 8C | 3 |
| P201 | B | 138 | 133 | 4E | 3 | R31 | A | 166 | 136 | 2E | 2 | R234 | B | 106 | 128 | 8C | 3 |
| P202 | B | 170 | 127 | 7E | 3 | R32 | A | 161 | 136 | 2D | 2 | R235 | B | 96 | 125 | 8C | 3 |
| P203 | B | 194 | 116 | 8E | 3 | R33 | A | 154 | 136 | 2D | 2 | R240 | A | 112 | 119 | 9C | 3 |
| P204 | B | 184 | 123 | 10E | 3 | R34 | A | 159 | 136 | 2D | 2 | R241 | A | 109 | 116 | 9C | 3 |
| P205 | B | 199 | 116 | 11E | 3 | R35 | A | 156 | 136 | 2C | 2 | R242 | A | 86 | 116 | 9C | 3 |
| P206 | B | 196 | 116 | 10F | 3 | R36 | A | 164 | 136 | 2C | 2 | R243 | A | 88 | 109 | 9C | 3 |
| P207 | B | 98 | 143 | 8C | 3 | R37 | A | 241 | 126 | 2C | 2 | R244 | A | 88 | 111 | 9C | 3 |
| P208 | B | 96 | 130 | 8C | 3 | R38 | A | 239 | 126 | 2C | 2 | R245 | A | 111 | 109 | 9C | 3 |
| P209 | B | 101 | 130 | 9C | 3 | R39 | A | 236 | 126 | 2C | 2 | R246 | A | 126 | 115 | 10C | 3 |
| P210 | B | 91 | 143 | 9C | 3 | R40 | A | 221 | 144 | 4D | 2 | R247 | A | 109 | 114 | 10B | 3 |
| P211 | B | 93 | 115 | 10C | 3 | R41 | A | 144 | 133 | 5C | 2 | R251 | B | 125 | 119 | 2D | 3 |
| P212 | B | 90 | 115 | 10C | 3 | R42 | A | 112 | 122 | 6C | 2 | R252 | A | 91 | 129 | 5B | 3 |
| P213 | B | 112 | 116 | 11C | 3 | R43 | B | 157 | 132 | 2C | 2 | R253 | A | 106 | 143 | 5A | 3 |
| P232 | B | 96 | 143 | 8D | 3 | R44 | B | 160 | 132 | 2C | 2 | R300 | B | 272 | 135 | 2D | 4 |
| P233 | B | 119 | 124 | 3D | 3 | R45 | B | 163 | 132 | 2B | 2 | R301 | B | 274 | 135 | 2D | 4 |
| P600 | B | 120 | 84 | 2C | 7 | R46 | B | 165 | 132 | 2B | 2 | R302 | B | 277 | 135 | 2D | 4 |
| P601 | B | 112 | 83 | 3C | 7 | R47 | B | 168 | 132 | 2B | 2 | R303 | B | 279 | 135 | 2D | 4 |
| P620 | B | 141 | 96 | 3B | 7 | R48 | A | 171 | 132 | 2B | 2 | R304 | B | 282 | 135 | 3D | 4 |
| P621 | B | 141 | 93 | 3A | 7 | R50 | A | 189 | 130 | 7C | 2 | R305 | B | 284 | 135 | 3D | 4 |
| P628 | B | 137 | 90 | 3C | 7 | R51 | A | 194 | 130 | 7C | 2 | R306 | B | 287 | 135 | 3D | 4 |
| P850 | B | 37 | 106 | 6B | 9 | R52 | A | 186 | 130 | 7C | 2 | R307 | B | 290 | 135 | 3D | 4 |
| P851 | B | 37 | 109 | 7C | 9 | R53 | A | 191 | 126 | 7C | 2 | R308 | B | 292 | 135 | 3D | 4 |
| P866 | B | 37 | 102 | 8B | 9 | R56 | A | 221 | 85 | 11E | 2 | R310 | B | 268 | 138 | 3C | 4 |
| R1 | A | 244 | 144 | 2D | 2 | R57 | A | 224 | 85 | 11E | 2 | R312 | B | 267 | 136 | 4D | 4 |
| R2 | A | 242 | 144 | 2D | 2 | R58 | A | 226 | 85 | 11E | 2 | R313 | A | 274 | 117 | 6C | 4 |
| R3 | A | 239 | 144 | 2D | 2 | R59 | A | 229 | 85 | 11D | 2 | R314 | B | 271 | 126 | 5C | 4 |
| R4 | A | 237 | 144 | 2D | 2 | R81 | B | 200 | 114 | 9D | 2 | R315 | B | 259 | 124 | 5B | 4 |
| R5 | A | 234 | 144 | 2D | 2 | R82 | B | 233 | 114 | 9C | 2 | R316 | B | 264 | 129 | 5B | 4 |
| R6 | A | 232 | 144 | 2D | 2 | R83 | B | 246 | 112 | 9C | 2 | R317 | B | 254 | 114 | 5C | 4 |
| R7 | A | 229 | 144 | 2D | 2 | R87 | B | 190 | 98 | 10D | 2 | R318 | B | 257 | 114 | 6C | 4 |
| R9 | A | 234 | 126 | 3C | 2 | R88 | B | 198 | 98 | 10D | 2 | R319 | A | 272 | 121 | 6C | 4 |
| R10 | A | 218 | 141 | 4D | 2 | R90 | A | 254 | 94 | 10C | 2 | R320 | A | 257 | 121 | 6B | 4 |
| R11 | A | 218 | 137 | 4D | 2 | R91 | A | 251 | 89 | 10C | 2 | R321 | A | 258 | 127 | 6B | 4 |
| R12 | A | 218 | 135 | 4D | 2 | R92 | A | 238 | 89 | 10B | 2 | R325 | B | 259 | 119 | 6D | 4 |
| R13 | A | 218 | 132 | 4D | 2 | R200 | B | 134 | 135 | 2F | 3 | R327 | A | 267 | 109 | 7C | 4 |
| R14 | A | 218 | 130 | 4D | 2 | R201 | A | 128 | 132 | 2E | 3 | R328 | A | 272 | 114 | 7C | 4 |
| R15 | A | 218 | 127 | 4D | 2 | R203 | A | 133 | 132 | 3E | 3 | R329 | B | 271 | 89 | 7B | 4 |
| R16 | A | 218 | 124 | 4D | 2 | R204 | A | 130 | 136 | 3E | 3 | R330 | A | 261 | 102 | 7B | 4 |
| R20 | A | 201 | 115 | 4E | 2 | R206 | B | 151 | 135 | 5E | 3 | R332 | B | 260 | 106 | 8B | 4 |
| R21 | A | 204 | 115 | 4E | 2 | R207 | B | 151 | 133 | 5E | 3 | R333 | A | 270 | 132 | 8B | 4 |
| R22 | A | 206 | 115 | 4E | 2 | R208 | B | 142 | 118 | 4D | 3 | R340 | B | 262 | 108 | 8C | 4 |
| R23 | A | 209 | 115 | 4E | 2 | R209 | B | 144 | 118 | 4C | 3 | R341 | B | 262 | 99 | 8B | 4 |
| R24 | A | 211 | 115 | 4E | 2 | R210 | B | 159 | 124 | 6E | 3 | R342 | B | 265 | 102 | 8B | 4 |
| R25 | A | 214 | 115 | 4E | 2 | R211 | A | 166 | 118 | 7E | 3 | R348 | A | 279 | 113 | 6E | 4 |
| R26 | A | 217 | 115 | 4E | 2 | R212 | A | 161 | 112 | 8E | 3 | R349 | A | 277 | 113 | 6D | 4 |
| R27 | A | 208 | 133 | 4F | 2 | R214 | B | 184 | 134 | 9E | 3 | R350 | A | 279 | 123 | 5E | 4 |
| R30-A | B | 199 | 121 | 6E | 2 | R216 | B | 184 | 129 | 10E | 3 | R353 | A | 274 | 102 | 7E | 4 |
| R30-B | | | | 6E | 2 | R217 | A | 188 | 119 | 11E | 3 | R354 | A | 270 | 107 | 7D | 4 |
| R30-C | | | | 6E | 2 | R218 | A | 187 | 110 | 10E | 3 | R355 | A | 271 | 96 | 7D | 4 |
| ROHDE & SCHWARZ | ÄI | Datum Date | XY-Liste für XY-list for | | | | Sach-Nummer Stock-Nr | Blatt Page | | | | | | | | | |
| | 03 | 22.10.92 | EE AUSGANGSTEIL_1.5GHZ OUTPUT_UNIT_1.5GHZ | | | | 1038.7780.01 XY | 4+ | | | | | | | | | |

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|------|------|-----|-----|-----|----|------|------|-----|-----|-----|----|------|------|-----|-----|-----|----|
| R356 | B | 276 | 93 | 10E | 4 | R611 | A | 134 | 90 | 3C | 7 | R724 | B | 131 | 29 | 4E | 8 |
| R357 | B | 277 | 96 | 10E | 4 | R612 | A | 124 | 83 | 3C | 7 | R730 | B | 137 | 41 | 5C | 8 |
| R360 | B | 272 | 64 | 11E | 4 | R613 | A | 113 | 81 | 3C | 7 | R731 | B | 130 | 51 | 6D | 8 |
| R361 | B | 259 | 64 | 11E | 4 | R614 | A | 116 | 74 | 3C | 7 | R732 | B | 130 | 60 | 7D | 8 |
| R400 | B | 269 | 71 | 2D | 5 | R615 | A | 122 | 79 | 3C | 7 | R734 | A | 137 | 55 | 6C | 8 |
| R401 | B | 259 | 69 | 2C | 5 | R616 | A | 122 | 91 | 2B | 7 | R735 | A | 132 | 47 | 6C | 8 |
| R402 | B | 266 | 74 | 2C | 5 | R617 | A | 126 | 100 | 2C | 7 | R741 | A | 107 | 11 | 9D | 8 |
| R404 | A | 277 | 68 | 4D | 5 | R618 | A | 136 | 93 | 1C | 7 | R742 | A | 112 | 14 | 9D | 8 |
| R405 | A | 286 | 70 | 4D | 5 | R619 | B | 138 | 96 | 1C | 7 | R743 | A | 120 | 11 | 9E | 8 |
| R406 | A | 281 | 72 | 4C | 5 | R620 | A | 133 | 96 | 1B | 7 | R745 | B | 101 | 12 | 10C | 8 |
| R407 | A | 285 | 61 | 4C | 5 | R621 | B | 92 | 78 | 5E | 7 | R747 | A | 103 | 23 | 10D | 8 |
| R408 | B | 272 | 66 | 3C | 5 | R622 | B | 128 | 83 | 3E | 7 | R748 | A | 91 | 27 | 10D | 8 |
| R409 | B | 282 | 61 | 4C | 5 | R623 | B | 92 | 81 | 5E | 7 | R750 | A | 112 | 17 | 10E | 8 |
| R410 | A | 271 | 79 | 4E | 5 | R624 | B | 92 | 83 | 5E | 7 | R751 | A | 90 | 30 | 10E | 8 |
| R411 | A | 270 | 84 | 4E | 5 | R625 | B | 92 | 86 | 5E | 7 | R753 | A | 113 | 27 | 10E | 8 |
| R412 | A | 276 | 85 | 4E | 5 | R626 | B | 95 | 89 | 5D | 7 | R754 | A | 114 | 29 | 10E | 8 |
| R413 | A | 281 | 83 | 5E | 5 | R627 | B | 93 | 91 | 5D | 7 | R760 | B | 101 | 32 | 10C | 8 |
| R416 | B | 234 | 82 | 6E | 5 | R628 | B | 93 | 94 | 5D | 7 | R761 | B | 78 | 44 | 10C | 8 |
| R417 | B | 244 | 84 | 6E | 5 | R629 | B | 128 | 86 | 3E | 7 | R800 | B | 94 | 14 | 2C | 9 |
| R430 | A | 245 | 67 | 10E | 5 | R630 | B | 68 | 124 | 5C | 7 | R803 | B | 91 | 15 | 2C | 9 |
| R431 | A | 215 | 52 | 10E | 5 | R632 | B | 65 | 121 | 5C | 7 | R815 | B | 104 | 23 | 4E | 9 |
| R432 | A | 185 | 39 | 10E | 5 | R634 | B | 71 | 120 | 5B | 7 | R816 | B | 108 | 25 | 4E | 9 |
| R433 | A | 183 | 50 | 10D | 5 | R635 | A | 127 | 88 | 1A | 7 | R817 | B | 84 | 23 | 4E | 9 |
| R434 | A | 243 | 47 | 10D | 5 | R636 | A | 119 | 91 | 2B | 7 | R819 | B | 33 | 76 | 5D | 9 |
| R435 | A | 210 | 40 | 10D | 5 | R637 | A | 106 | 84 | 2B | 7 | R820 | B | 25 | 76 | 5C | 9 |
| R436 | A | 201 | 30 | 10C | 5 | R638 | A | 107 | 101 | 2A | 7 | R821 | B | 27 | 80 | 6C | 9 |
| R437 | A | 205 | 17 | 10C | 5 | R639 | A | 104 | 97 | 2A | 7 | R822 | B | 23 | 84 | 6D | 9 |
| R438 | A | 243 | 34 | 10C | 5 | R640 | B | 67 | 109 | 6D | 7 | R824 | A | 35 | 81 | 6D | 9 |
| R440 | A | 170 | 23 | 10B | 5 | R641 | B | 55 | 83 | 7D | 7 | R825 | A | 36 | 39 | 6D | 9 |
| R442 | A | 181 | 44 | 11D | 5 | R642 | B | 81 | 83 | 7D | 7 | R826 | A | 33 | 35 | 6E | 9 |
| R443 | A | 246 | 38 | 11C | 5 | R644 | B | 53 | 65 | 8D | 7 | R831 | B | 33 | 98 | 7D | 9 |
| R450 | A | 353 | 192 | 11D | 5 | R645 | B | 66 | 72 | 9D | 7 | R833 | A | 17 | 44 | 7E | 9 |
| R451 | A | 353 | 192 | 11D | 5 | R646 | B | 69 | 76 | 9D | 7 | R835 | A | 49 | 21 | 7F | 9 |
| R452 | A | 353 | 192 | 11D | 5 | R647 | B | 76 | 71 | 9E | 7 | R836 | A | 49 | 23 | 7F | 9 |
| R453 | A | 353 | 192 | 11D | 5 | R648 | A | 76 | 64 | 9E | 7 | R837 | A | 49 | 26 | 7F | 9 |
| R454 | A | 353 | 192 | 11C | 5 | R649 | B | 70 | 54 | 9D | 7 | R838 | A | 45 | 32 | 6F | 9 |
| R455 | A | 353 | 192 | 11C | 5 | R651 | A | 113 | 67 | 2C | 7 | R839 | A | 39 | 32 | 6E | 9 |
| R500 | A | 240 | 76 | 2F | 6 | R652 | B | 130 | 74 | 2C | 7 | R840 | A | 41 | 26 | 7E | 9 |
| R501 | A | 240 | 74 | 2F | 6 | R653 | B | 353 | 192 | 1C | 7 | R841 | B | 30 | 129 | 9D | 9 |
| R502 | A | 240 | 71 | 2F | 6 | R654 | B | 353 | 192 | 1B | 7 | R842 | B | 30 | 131 | 9D | 9 |
| R503 | B | 236 | 67 | 3E | 6 | R655 | B | 73 | 51 | 9D | 7 | R843 | B | 19 | 129 | 8C | 9 |
| R520 | A | 168 | 40 | 9F | 6 | R657 | A | 102 | 92 | 2B | 7 | R844 | B | 36 | 126 | 9C | 9 |
| R521 | A | 171 | 40 | 9F | 6 | R658 | A | 107 | 92 | 3B | 7 | R845 | B | 33 | 129 | 8B | 9 |
| R522 | A | 166 | 40 | 9F | 6 | R700 | B | 159 | 41 | 2D | 8 | R846 | B | 27 | 111 | 8C | 9 |
| R530 | B | 245 | 59 | 2C | 6 | R701 | B | 160 | 31 | 2D | 8 | R848 | B | 32 | 114 | 8C | 9 |
| R600 | B | 150 | 73 | 2D | 7 | R702 | B | 161 | 29 | 3D | 8 | R850 | A | 28 | 58 | 5B | 9 |
| R601 | B | 136 | 70 | 2E | 7 | R704 | A | 163 | 27 | 2D | 8 | R851 | B | 32 | 61 | 5B | 9 |
| R602 | A | 130 | 74 | 2E | 7 | R705 | A | 170 | 34 | 2E | 8 | R852 | A | 24 | 61 | 5B | 9 |
| R603 | A | 133 | 77 | 2E | 7 | R706 | B | 144 | 25 | 4C | 8 | R854 | A | 22 | 79 | 5B | 9 |
| R604 | B | 124 | 81 | 2D | 7 | R707 | B | 144 | 34 | 4C | 8 | R855 | A | 22 | 81 | 6B | 9 |
| R605 | B | 149 | 80 | 2D | 7 | R709 | A | 148 | 39 | 3C | 8 | R856 | A | 36 | 125 | 7B | 9 |
| R607 | A | 125 | 74 | 3D | 7 | R710 | A | 145 | 33 | 4C | 8 | R857 | A | 26 | 111 | 7B | 9 |
| R608 | B | 122 | 78 | 2D | 7 | R720 | A | 134 | 13 | 3D | 8 | R858 | B | 353 | 192 | 5B | 9 |
| R609 | B | 127 | 71 | 2D | 7 | R721 | A | 135 | 22 | 4D | 8 | R859 | B | 353 | 192 | 5B | 9 |
| R610 | A | 353 | 192 | 4B | 7 | R723 | B | 130 | 20 | 4E | 8 | R861 | A | 32 | 99 | 8B | 9 |

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| | 03 | 22.10.92 | EE AUSGANGSTEIL_1.5GHZ OUTPUT_UNIT_1.5GHZ | 1038.7780.01 XY | 5+ |

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|------|------|-----|-----|-----|----|--------|------|-----|-----|-----|----|--------|------|-----|-----|-----|----|
| R863 | A | 34 | 99 | 8B | 9 | V500 | B | 242 | 69 | 2E | 6 | V747 | A | 112 | 20 | 10D | 8 |
| R866 | A | 37 | 111 | 7C | 9 | V502 | B | 231 | 71 | 3E | 6 | V748 | A | 86 | 27 | 10D | 8 |
| R867 | B | 36 | 124 | 7C | 9 | V505 | B | 231 | 75 | 3E | 6 | V822 | B | 25 | 96 | 6C | 9 |
| R868 | B | 27 | 117 | 8C | 9 | V510 | B | 225 | 77 | 4E | 6 | V825 | A | 30 | 38 | 6E | 9 |
| R869 | A | 32 | 110 | 8C | 9 | V511 | B | 215 | 75 | 4E | 6 | V830 | A | 17 | 37 | 6E | 9 |
| R870 | A | 35 | 60 | 9B | 9 | V512 | B | 210 | 75 | 5E | 6 | V831 | A | 24 | 26 | 7E | 9 |
| R871 | A | 35 | 65 | 10C | 9 | V514 | B | 204 | 77 | 6E | 6 | V832 | A | 39 | 28 | 7E | 9 |
| R872 | A | 15 | 72 | 11B | 9 | V515 | B | 191 | 75 | 6E | 6 | V837 | A | 41 | 30 | 6F | 9 |
| R873 | A | 18 | 67 | 11B | 9 | V516 | B | 183 | 77 | 7E | 6 | V844-A | B | 30 | 121 | 9C | 9 |
| R874 | A | 18 | 75 | 11C | 9 | V520 | B | 170 | 51 | 9E | 6 | V844-B | | | | 7C | 9 |
| R875 | A | 35 | 76 | 10C | 9 | V523 | B | 170 | 45 | 9D | 6 | V850-A | A | 28 | 107 | 7B | 9 |
| R876 | A | 32 | 74 | 10B | 9 | V530 | B | 247 | 67 | 1C | 6 | V850-B | | | | 6B | 9 |
| R899 | A | 34 | 125 | 7B | 9 | V532 | B | 251 | 54 | 1B | 6 | V857 | A | 26 | 123 | 7B | 9 |
| U600 | B | 69 | 96 | 6D | 7 | V535 | B | 251 | 47 | 3B | 6 | V870 | A | 36 | 62 | 10B | 9 |
| V200 | A | 123 | 132 | 3E | 3 | V536 | B | 244 | 39 | 3B | 6 | V871 | B | 36 | 69 | 10B | 9 |
| V201 | A | 119 | 132 | 3E | 3 | V539 | B | 241 | 31 | 5B | 6 | VC1 | B | 167 | 86 | 10F | 2 |
| V217 | B | 196 | 119 | 10E | 3 | V540 | B | 236 | 28 | 5B | 6 | VC2 | B | 178 | 86 | 10E | 2 |
| V310 | B | 280 | 123 | 6C | 4 | V543 | B | 232 | 27 | 7B | 6 | X1 | B | 250 | 94 | 11F | 2 |
| V315 | B | 274 | 113 | 7C | 4 | V544 | B | 218 | 25 | 7B | 6 | X10A | B | 124 | 141 | 8C | 2 |
| V318 | A | 260 | 112 | 6B | 4 | V548 | B | 217 | 29 | 10B | 6 | X10B | B | 124 | 141 | 1B | 2 |
| V319 | A | 261 | 132 | 6B | 4 | V600 | B | 139 | 70 | 2E | 7 | X10C | B | 124 | 141 | | |
| V330 | A | 258 | 100 | 7B | 4 | V602 | B | 144 | 81 | 2D | 7 | X101 | B | 297 | 137 | 2C | 4 |
| V333 | A | 274 | 135 | 8B | 4 | V604-A | B | 127 | 81 | 2E | 7 | X104 | B | 259 | 137 | 8F | 2 |
| V349 | A | 279 | 107 | 6D | 4 | V604-B | | | | 2D | 7 | X105 | B | 69 | 137 | 4A | 7 |
| V350 | A | 282 | 122 | 5E | 4 | V606-A | A | 115 | 84 | 3C | 7 | X108 | B | 30 | 137 | 12D | 9 |
| V351 | A | 283 | 109 | 7E | 4 | V606-B | | | | 2B | 7 | Z81 | B | 178 | 109 | 10F | 2 |
| V352 | A | 264 | 105 | 6D | 4 | V608 | A | 113 | 74 | 3C | 7 | Z82 | B | 183 | 109 | 10E | 2 |
| V400 | B | 281 | 72 | 4D | 5 | V610 | B | 57 | 67 | 8D | 7 | Z83 | B | 173 | 109 | 10E | 2 |
| V404 | A | 291 | 76 | 4C | 5 | V612 | B | 76 | 58 | 9D | 7 | Z85 | B | 188 | 107 | 10D | 2 |
| V405 | A | 291 | 61 | 4C | 5 | V635 | A | 110 | 88 | 2A | 7 | Z86 | B | 193 | 107 | 10D | 2 |
| V411 | A | 274 | 86 | 4E | 5 | V636 | B | 116 | 101 | 2A | 7 | Z87 | B | 203 | 107 | 10D | 2 |
| V412 | A | 284 | 86 | 5E | 5 | V700-A | B | 157 | 36 | 2D | 8 | Z88 | B | 234 | 107 | 10C | 2 |
| V430 | A | 251 | 62 | 11E | 5 | V700-B | | | | 2D | 8 | Z89 | B | 239 | 107 | 10C | 2 |
| V431 | A | 212 | 58 | 11E | 5 | V705 | B | 145 | 18 | 4C | 8 | Z90 | B | 213 | 107 | 10C | 2 |
| V432 | A | 190 | 57 | 11E | 5 | V707 | B | 144 | 48 | 5C | 8 | Z91 | B | 224 | 107 | 10C | 2 |
| V433 | A | 181 | 57 | 11D | 5 | V720 | B | 132 | 15 | 4D | 8 | Z92 | B | 218 | 107 | 10B | 2 |
| V434 | A | 249 | 49 | 11D | 5 | V725 | B | 131 | 37 | 5E | 8 | Z93 | B | 229 | 107 | 10B | 2 |
| V435 | A | 217 | 43 | 11D | 5 | V730 | B | 132 | 43 | 6D | 8 | Z94 | B | 168 | 107 | 10B | 2 |
| V436 | A | 208 | 35 | 11C | 5 | V735 | B | 124 | 56 | 7D | 8 | Z95 | B | 163 | 107 | 10E | 2 |
| V437 | A | 213 | 18 | 11C | 5 | V745 | A | 105 | 23 | 10D | 8 | Z700 | B | 87 | 130 | 4B | 7 |
| V438 | A | 239 | 37 | 11C | 5 | V746 | A | 88 | 23 | 10D | 8 | | | | | | |

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| | 03 | 22.10.92 | EE AUSGANGSTEIL_1.5GHZ OUTPUT_UNIT_1.5GHZ | 1038.7780.01 XY | 6- |

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|------|------|-----|----|-----|----|--------|------|-----|----|-----|----|--------|------|-----|----|-----|----|
| C100 | A | 84 | 15 | 2E | 2 | C323 | B | 58 | 74 | 5C | 4 | D121-A | B | 18 | 71 | 11E | 2 |
| C101 | A | 90 | 15 | 2E | 2 | C324 | B | 61 | 69 | 5B | 4 | D121-B | | | | 5A | 2 |
| C102 | B | 50 | 14 | 2D | 2 | C331 | A | 107 | 10 | 11C | 4 | D140-B | B | 31 | 48 | 2D | 4 |
| C103 | B | 62 | 14 | 2C | 2 | C335 | A | 109 | 10 | 11B | 4 | D140-A | B | 31 | 48 | 6E | 2 |
| C104 | B | 57 | 14 | 2C | 2 | C340 | B | 6 | 39 | 9E | 4 | D145-B | B | 18 | 48 | 2E | 4 |
| C105 | B | 131 | 14 | 2B | 2 | C342 | B | 4 | 30 | 10F | 4 | D145-A | B | 18 | 48 | 8E | 2 |
| C106 | A | 116 | 15 | 2B | 2 | C343 | A | 97 | 10 | 11E | 4 | D150-B | B | 5 | 48 | 9E | 4 |
| C107 | A | 114 | 15 | 2B | 2 | C344 | A | 76 | 72 | 6A | 4 | D150-A | B | 5 | 48 | 10E | 2 |
| C108 | A | 87 | 15 | 2E | 2 | C345 | A | 76 | 68 | 6A | 4 | D210-A | B | 100 | 44 | 3E | 3 |
| C130 | B | 93 | 21 | 10C | 2 | C350 | A | 49 | 59 | 1A | 4 | D210-B | | | | 4A | 3 |
| C131 | A | 94 | 10 | 10C | 2 | C351 | A | 51 | 59 | 2A | 4 | D230-A | B | 121 | 58 | 6E | 3 |
| C132 | B | 120 | 26 | 5C | 2 | C352 | A | 52 | 51 | 2A | 4 | D230-B | | | | 6A | 3 |
| C140 | A | 81 | 10 | 10B | 2 | C353 | A | 61 | 56 | 2A | 4 | D300-A | B | 46 | 51 | 4C | 4 |
| C141 | A | 79 | 10 | 10B | 2 | C354 | A | 66 | 56 | 2A | 4 | D300-B | | | | 4B | 4 |
| C142 | A | 76 | 10 | 10B | 2 | C355 | B | 66 | 48 | 3A | 4 | D300-C | | | | 4B | 4 |
| C143 | A | 74 | 10 | 10B | 2 | C356 | A | 41 | 62 | 7A | 4 | D300-D | | | | 4C | 4 |
| C149 | A | 20 | 18 | 5A | 2 | C357 | A | 13 | 33 | 8A | 4 | D300-E | | | | 1A | 4 |
| C150 | A | 39 | 31 | 3A | 2 | C358 | A | 11 | 27 | 8A | 4 | D310-A | B | 59 | 51 | 7E | 4 |
| C151 | A | 54 | 31 | 4A | 2 | C359 | A | 30 | 69 | 7A | 4 | D310-B | | | | 7E | 4 |
| C152 | A | 23 | 29 | 4A | 2 | C361 | A | 76 | 54 | 4A | 4 | D310-C | | | | 7D | 4 |
| C153 | B | 74 | 32 | 7A | 2 | C362 | A | 78 | 54 | 4A | 4 | D310-D | | | | 7E | 4 |
| C154 | A | 88 | 35 | 7A | 2 | C363 | B | 80 | 49 | 4A | 4 | D310-E | | | | 2A | 4 |
| C156 | A | 41 | 18 | 7A | 2 | C365 | A | 88 | 58 | 3A | 4 | D315-A | B | 84 | 51 | 7C | 4 |
| C157 | A | 20 | 74 | 5A | 2 | C366 | A | 90 | 58 | 3A | 4 | D315-B | | | | 4D | 4 |
| C160 | A | 33 | 54 | 6E | 2 | C367 | B | 90 | 49 | 3A | 4 | D315-C | | | | 4C | 4 |
| C161 | A | 22 | 54 | 9E | 2 | C368 | A | 43 | 75 | 5A | 4 | D315-D | | | | 7C | 4 |
| C162 | A | 7 | 58 | 10E | 2 | C369 | A | 45 | 75 | 5A | 4 | D315-E | | | | 3A | 4 |
| C170 | A | 30 | 18 | 6A | 2 | C370 | A | 46 | 69 | 5A | 4 | D320-A | B | 72 | 51 | 10C | 4 |
| C202 | A | 123 | 15 | 2D | 3 | C373 | B | 85 | 73 | 8C | 4 | D320-B | | | | 5E | 4 |
| C212 | B | 113 | 45 | 4C | 3 | C374 | B | 85 | 70 | 8C | 4 | D320-C | | | | 5E | 4 |
| C214 | A | 120 | 26 | 3A | 3 | C375 | B | 52 | 76 | 8D | 4 | D320-D | | | | 10C | 4 |
| C215 | A | 117 | 35 | 3A | 3 | C376 | B | 71 | 80 | 8C | 4 | D320-E | | | | 4A | 4 |
| C216 | A | 97 | 42 | 4A | 3 | C377 | B | 52 | 71 | 8D | 4 | D325-A | B | 39 | 69 | 7D | 4 |
| C217 | A | 91 | 41 | 4A | 3 | C378 | B | 71 | 77 | 8C | 4 | D325-B | | | | 7D | 4 |
| C218 | B | 118 | 49 | 6A | 3 | D100-A | B | 16 | 20 | 2D | 2 | D325-C | | | | 7C | 4 |
| C219 | A | 115 | 58 | 6A | 3 | D100-B | | | | 3D | 2 | D325-D | | | | 7C | 4 |
| C240 | A | 134 | 45 | 7A | 3 | D100-C | | | | 4D | 2 | D325-E | | | | 5A | 4 |
| C241 | A | 138 | 45 | 7A | 3 | D100-D | | | | 6D | 2 | L100 | B | 128 | 14 | 2B | 2 |
| C259 | A | 119 | 10 | 2E | 3 | D100-E | | | | 5A | 2 | L101 | B | 117 | 14 | 2B | 2 |
| C260 | B | 120 | 44 | 7D | 3 | D102-A | B | 41 | 27 | 2E | 2 | L102 | B | 113 | 14 | 2B | 2 |
| C261 | B | 132 | 40 | 6D | 3 | D102-B | | | | 3A | 2 | L130 | B | 90 | 21 | 9D | 2 |
| C276 | B | 137 | 23 | 9D | 3 | D105-A | B | 26 | 20 | 3C | 2 | L131 | B | 93 | 11 | 9C | 2 |
| C277 | B | 144 | 23 | 9D | 3 | D105-B | | | | 3C | 2 | L140 | B | 81 | 11 | 9B | 2 |
| C285 | A | 125 | 10 | 11E | 3 | D105-C | | | | 6C | 2 | L141 | B | 79 | 11 | 9B | 2 |
| C290 | B | 146 | 51 | 11D | 3 | D105-D | | | | 8A | 2 | L142 | B | 76 | 11 | 9B | 2 |
| C291 | B | 140 | 59 | 11D | 3 | D105-E | | | | 6A | 2 | L143 | B | 74 | 11 | 9B | 2 |
| C302 | B | 69 | 14 | 2C | 4 | D110-A | B | 56 | 27 | 4E | 2 | N130-A | B | 88 | 27 | 9D | 2 |
| C305 | A | 104 | 15 | 2C | 4 | D110-B | | | | 3A | 2 | N130-B | | | | 9C | 2 |
| C306 | A | 102 | 15 | 2B | 4 | D115-D | B | 37 | 20 | 2A | 3 | N130-C | | | | 7A | 2 |
| C307 | A | 99 | 15 | 2E | 4 | D115-A | B | 37 | 20 | 4C | 2 | N200-C | B | 117 | 30 | 3D | 3 |
| C309 | A | 30 | 62 | 3F | 4 | D115-B | | | | 5C | 2 | N200-D | | | | 3C | 3 |
| C310 | A | 33 | 69 | 3D | 4 | D115-C | | | | 3E | 2 | N200-E | | | | 3A | 3 |
| C319 | B | 78 | 76 | 7B | 4 | D115-E | | | | 6A | 2 | N200-A | B | 117 | 30 | 4B | 2 |
| C320 | B | 75 | 65 | 8E | 4 | D120-A | B | 27 | 27 | 7E | 2 | N200-B | | | | 6B | 2 |
| C322 | B | 61 | 66 | 5D | 4 | D120-B | | | | 4A | 2 | N240-A | B | 132 | 44 | 8D | 3 |



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| | 02 | 13.08.92 | EE NF_PART AF_PART | 1038.7996.01 XY | 1+ |

| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|--------|------|-----|----|-----|----|------|------|-----|----|-----|----|------|------|-----|----|-----|----|
| N240-B | | | | 9D | 3 | R119 | B | 109 | 22 | 4B | 2 | R268 | B | 98 | 69 | 7D | 3 |
| N240-C | | | | 10D | 3 | R120 | B | 32 | 28 | 2F | 2 | R269 | B | 104 | 69 | 7D | 3 |
| N240-D | | | | 9E | 3 | R121 | B | 46 | 27 | 4E | 2 | R270 | B | 101 | 79 | 7D | 3 |
| N240-E | | | | 7A | 3 | R122 | B | 22 | 25 | 7E | 2 | R271 | B | 109 | 69 | 7D | 3 |
| N323-A | B | 32 | 63 | 3E | 4 | R123 | B | 16 | 79 | 11E | 2 | R272 | B | 106 | 79 | 7D | 3 |
| N323-B | | | | 3D | 4 | R130 | B | 78 | 25 | 8D | 2 | R273 | B | 119 | 69 | 7D | 3 |
| N323-C | | | | 7A | 4 | R131 | B | 120 | 23 | 5C | 2 | R274 | B | 111 | 79 | 7D | 3 |
| N328-A | B | 9 | 36 | 9E | 4 | R132 | B | 112 | 23 | 4B | 2 | R275 | B | 133 | 60 | 8B | 3 |
| N328-B | | | | 10E | 4 | R149 | B | 35 | 23 | 5C | 2 | R276 | B | 129 | 40 | 8D | 3 |
| N328-C | | | | 11E | 4 | R160 | B | 31 | 45 | 5E | 2 | R277 | B | 129 | 47 | 8D | 3 |
| N328-D | | | | 10E | 4 | R161 | B | 43 | 53 | 5E | 2 | R278 | B | 126 | 53 | 8C | 3 |
| N328-E | | | | 8A | 4 | R162 | B | 43 | 62 | 5E | 2 | R279 | B | 135 | 58 | 8C | 3 |
| N335-A | B | 72 | 72 | 7B | 4 | R163 | B | 47 | 49 | 5E | 2 | R280 | B | 130 | 53 | 8C | 3 |
| N335-B | | | | 6A | 4 | R165 | B | 22 | 66 | 8E | 2 | R281 | B | 138 | 58 | 9B | 3 |
| 2 | B | 55 | 26 | 3A | 2 | R166 | B | 27 | 66 | 8E | 2 | R282 | B | 126 | 40 | 9E | 3 |
| 4 | B | 23 | 22 | 5A | 2 | R167 | B | 24 | 66 | 8E | 2 | R283 | B | 136 | 55 | 10F | 3 |
| 7 | B | 44 | 24 | 6A | 2 | R168 | B | 24 | 45 | 8E | 2 | R285 | B | 125 | 14 | 11E | 3 |
| 9 | B | 50 | 37 | 4A | 2 | R170 | B | 5 | 62 | 9E | 2 | R286 | B | 142 | 41 | 9D | 3 |
| 11 | B | 17 | 15 | 5A | 2 | R171 | B | 14 | 66 | 9E | 2 | R287 | B | 135 | 40 | 9D | 3 |
| 14 | B | 38 | 15 | 6A | 2 | R172 | B | 11 | 66 | 9E | 2 | R288 | B | 140 | 40 | 9D | 3 |
| 16 | B | 132 | 48 | 7B | 3 | R173 | B | 9 | 45 | 9E | 2 | R289 | B | 145 | 41 | 10D | 3 |
| 18 | B | 98 | 38 | 4A | 3 | R206 | B | 123 | 11 | 2D | 3 | R290 | B | 140 | 57 | 10D | 3 |
| 30 | B | 30 | 53 | 6F | 2 | R209 | B | 124 | 42 | 2D | 3 | R291 | B | 147 | 41 | 10C | 3 |
| 32 | B | 6 | 60 | 10F | 2 | R210 | B | 113 | 40 | 3C | 3 | R295 | B | 143 | 48 | 10E | 3 |
| 34 | B | 27 | 54 | 9E | 2 | R211 | B | 120 | 39 | 3D | 3 | R296 | B | 128 | 31 | 10C | 3 |
| 36 | B | 18 | 74 | 5A | 2 | R212 | B | 117 | 39 | 3C | 3 | R297 | B | 128 | 34 | 10C | 3 |
| 40 | B | 48 | 62 | 1A | 4 | R213 | B | 107 | 39 | 4C | 3 | R298 | B | 131 | 22 | 10C | 3 |
| 42 | B | 58 | 56 | 2A | 4 | R214 | B | 109 | 53 | 4B | 3 | R300 | B | 18 | 62 | 3F | 4 |
| 44 | B | 76 | 57 | 4A | 4 | R215 | B | 113 | 43 | 3C | 3 | R301 | B | 30 | 62 | 3E | 4 |
| 46 | B | 50 | 51 | 2A | 4 | R235 | B | 88 | 46 | 5A | 3 | R302 | B | 71 | 11 | 1D | 4 |
| 48 | B | 76 | 47 | 4A | 4 | R240 | B | 133 | 65 | 7A | 3 | R303 | B | 104 | 11 | 1C | 4 |
| 50 | B | 11 | 36 | 8A | 4 | R241 | B | 98 | 34 | 3E | 3 | R304 | B | 102 | 11 | 1B | 4 |
| 52 | B | 38 | 64 | 7A | 4 | R242 | B | 103 | 34 | 3E | 3 | R305 | B | 99 | 11 | 1E | 4 |
| 55 | B | 59 | 52 | 2A | 4 | R243 | B | 105 | 27 | 3E | 3 | R307 | B | 64 | 71 | 5C | 4 |
| 60 | B | 117 | 25 | 3B | 3 | R244 | B | 92 | 34 | 4E | 3 | R308 | B | 64 | 69 | 5B | 4 |
| 62 | B | 104 | 42 | 4B | 3 | R245 | B | 102 | 46 | 4E | 3 | R311 | B | 64 | 66 | 5C | 4 |
| 64 | B | 124 | 48 | 6B | 3 | R246 | B | 111 | 34 | 4E | 3 | R312 | B | 72 | 64 | 5E | 4 |
| 66 | B | 86 | 46 | 3A | 4 | R247 | B | 105 | 34 | 4E | 3 | R313 | B | 69 | 61 | 8D | 4 |
| 68 | B | 93 | 60 | 3B | 4 | R248 | B | 100 | 27 | 4E | 3 | R314 | B | 61 | 61 | 7E | 4 |
| 71 | B | 47 | 79 | 5B | 4 | R250 | B | 100 | 30 | 4E | 3 | R315 | B | 62 | 46 | 7E | 4 |
| 73 | B | 41 | 67 | 5A | 4 | R251 | B | 103 | 23 | 4E | 3 | R316 | B | 65 | 46 | 7E | 4 |
| 82 | B | 32 | 51 | 3D | 4 | R252 | B | 95 | 30 | 4E | 3 | R318 | B | 72 | 46 | 9D | 4 |
| R100 | B | 84 | 11 | 2E | 2 | R253 | B | 95 | 48 | 4E | 3 | R319 | B | 82 | 46 | 9C | 4 |
| R101 | B | 89 | 11 | 2E | 2 | R254 | B | 111 | 27 | 4E | 3 | R336 | B | 107 | 14 | 11C | 4 |
| R102 | B | 52 | 11 | 2D | 2 | R255 | B | 108 | 30 | 4E | 3 | R337 | B | 109 | 14 | 11B | 4 |
| R103 | B | 60 | 11 | 2C | 2 | R256 | B | 97 | 23 | 4E | 3 | R340 | B | 4 | 39 | 10E | 4 |
| R104 | B | 55 | 11 | 2C | 2 | R259 | B | 120 | 11 | 2E | 3 | R341 | B | 6 | 30 | 10E | 4 |
| R107 | B | 86 | 11 | 2E | 2 | R260 | B | 111 | 62 | 6E | 3 | R342 | B | 97 | 14 | 11E | 4 |
| R108 | B | 63 | 30 | 2E | 2 | R261 | B | 131 | 69 | 7E | 3 | R350 | B | 58 | 64 | 5D | 4 |
| R111 | B | 63 | 27 | 2E | 2 | R262 | B | 116 | 69 | 7E | 3 | R351 | B | 64 | 74 | 5C | 4 |
| R112 | B | 52 | 25 | 2E | 2 | R263 | B | 114 | 79 | 7E | 3 | R352 | B | 58 | 71 | 5B | 4 |
| R113 | B | 19 | 10 | 2D | 2 | R264 | B | 129 | 69 | 7E | 3 | R353 | B | 81 | 62 | 7C | 4 |
| R114 | B | 19 | 7 | 2C | 2 | R265 | B | 126 | 79 | 7E | 3 | R354 | B | 81 | 64 | 7C | 4 |
| R115 | B | 32 | 10 | 2C | 2 | R266 | B | 121 | 69 | 7E | 3 | R355 | B | 54 | 65 | 7D | 4 |
| R116 | B | 46 | 21 | 3F | 2 | R267 | B | 124 | 79 | 7E | 3 | R356 | B | 68 | 77 | 7C | 4 |

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| | 02 | 13.08.92 | EE NF_TEIL AF_PART | 1038.7996.01 XY | 2+ |



| Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg | Part | Side | X | Y | Sqr | Pg |
|------|------|----|----|-----|----|------|------|-----|----|-----|----|------|------|-----|----|-----|----|
| R357 | B | 55 | 69 | 7D | 4 | R365 | B | 85 | 68 | 8C | 4 | V280 | B | 137 | 36 | 9D | 3 |
| R358 | B | 55 | 74 | 7C | 4 | V110 | B | 124 | 20 | 4C | 2 | V281 | B | 142 | 38 | 10D | 3 |
| R359 | B | 71 | 75 | 7B | 4 | V130 | B | 85 | 22 | 8C | 2 | V282 | B | 145 | 38 | 10D | 3 |
| R360 | B | 58 | 78 | 8D | 4 | V211 | B | 114 | 30 | 3C | 3 | V290 | B | 140 | 54 | 11D | 3 |
| R361 | B | 36 | 76 | 8D | 4 | V212 | B | 109 | 37 | 4C | 3 | X1 | A | 53 | 3 | 1B | 2 |
| R362 | B | 64 | 78 | 8C | 4 | V235 | A | 85 | 44 | 5A | 3 | X290 | B | 137 | 64 | 11D | 3 |
| R363 | B | 78 | 80 | 8C | 4 | V241 | B | 129 | 62 | 7A | 3 | X305 | B | 88 | 64 | 10B | 4 |
| R364 | B | 84 | 76 | 8C | 4 | V270 | B | 124 | 58 | 8C | 3 | | | | | | |

| ROHDE & SCHWARZ | ÄI | Datum Date | XY-Liste für XY-list for | Sach-Nummer Stock-Nr | Blatt Page |
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| | 02 | 13.08.92 | EE NF_TEIL AF_PART | 1038.7996.01 XY | 3- |





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

Modifikation OPU 1 SME / SMT

Info von Hr. Richt 24.06.1996

Betreff: Pegelprobleme im Bereich 30 bis 40 Mhz.

Falls beim OPU1 der geforderte Ausgangspegel von mindestens 14 dBm nicht erreicht werden kann ist es möglich den Ausgangspegel über eine inoffizielle Modifikation anzuheben. Diese Modifikation ist nicht freigegeben.

Änderung:

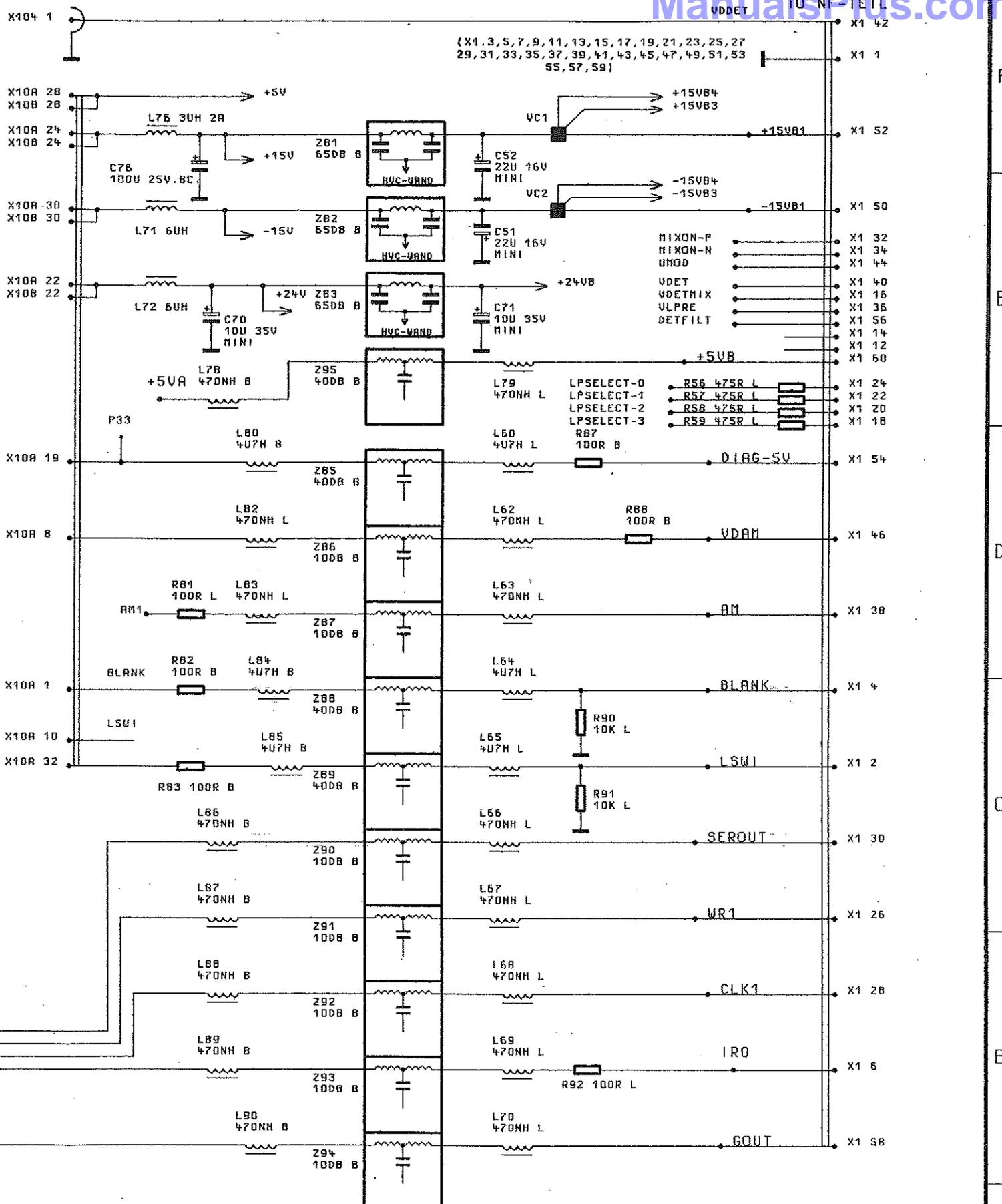
- 1.) R 821 von 561 Ohm auf 464 Ohm ändern.
- 2.) parallel zu C 603 einen Kondensator SMD mit 10 pF.

Danach muß der ZF Pegel neu abgeglichen werden, und die Verbesserung des Ausgangspegels geprüft werden.

Ramm Helmut

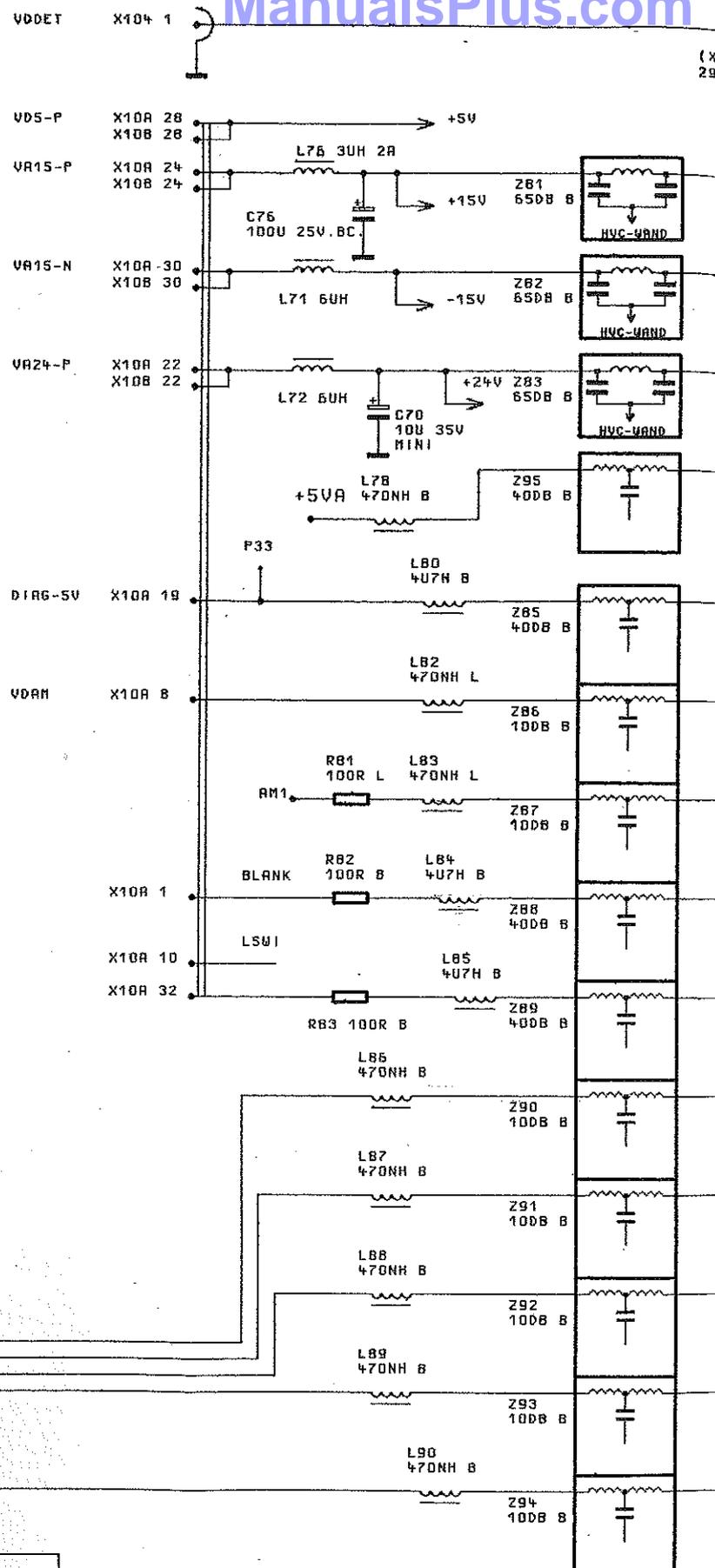
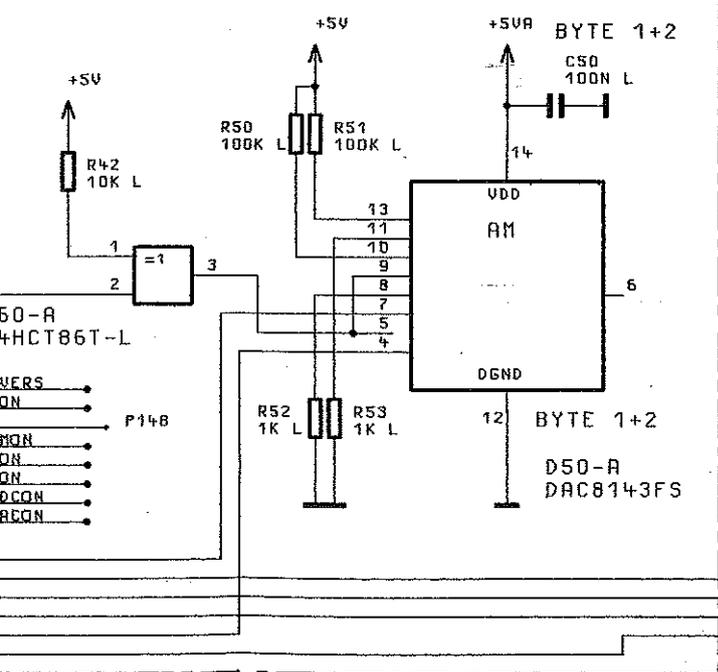
24.06.1996





| | | | | | | | |
|--|-----------------------|-------|--------|----------|------|---|-----------|
| 03702 | 09.03.94 | DR | 16PK | TAG | NAME | BENENNUNG | |
| | | | BEARB. | | DR | AUSGANGSTEIL 1.56GHZ OUTPUT UNIT 1.56GHZ | |
| | | | GEPR. | | DR | | |
| | | | NORM | | | | |
| | | | PLOTT | 30.03.94 | | | |
|  ROHDE & SCHWARZ | | | | | | ZEICHN.-NR. | BLATT-NR. |
| | | | | | | 1038.7780.015 | 2+ |
| REND. IND. | RENDERUNGS-NITTEILUNG | DATUM | NAME | ZU GERÄT | SME | REV. I. V. | ERSTE Z. |
| | | | | | | 1038.6002 | 1038.6048 |

| | | | | | |
|------|-----|------|------|------|------|
| 16 | AEZ | R13 | R12 | R11 | R10 |
| N.F. | 01 | N.F. | N.F. | N.F. | |
| N.F. | 02 | N.F. | N.F. | | N.F. |
| | 03 | N.F. | N.F. | | |
| | 04 | N.F. | | N.F. | N.F. |
| | 05 | N.F. | | N.F. | |
| | 06 | N.F. | | | N.F. |
| | 15 | | | | |



BINDEnde ANgABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE: SA

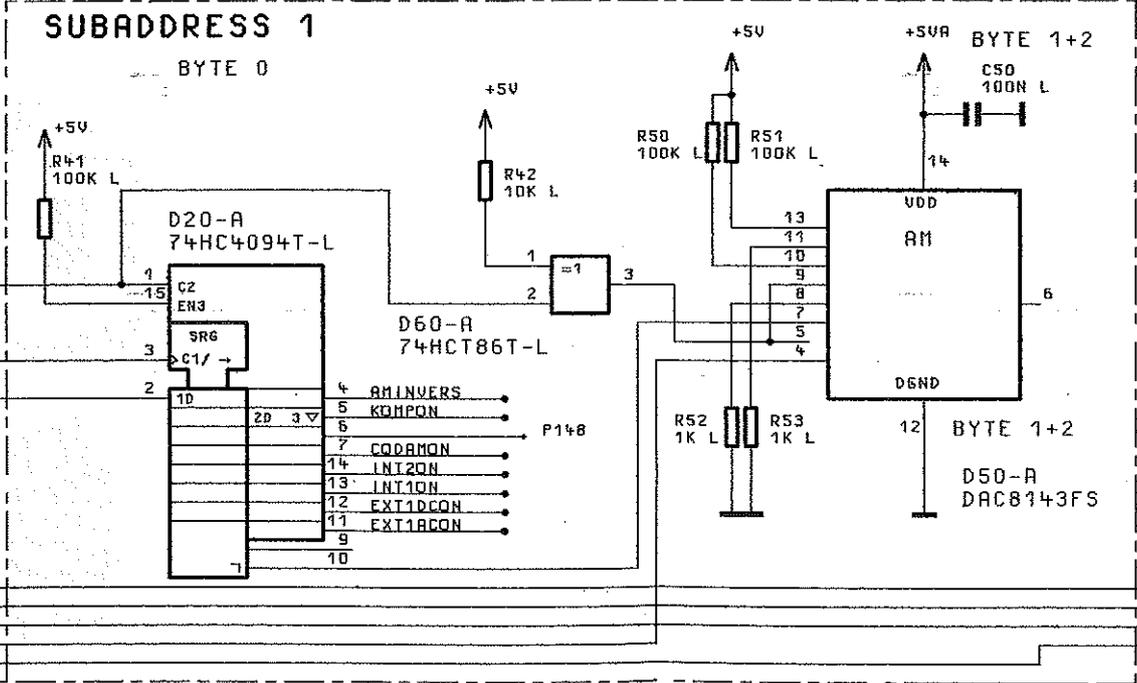
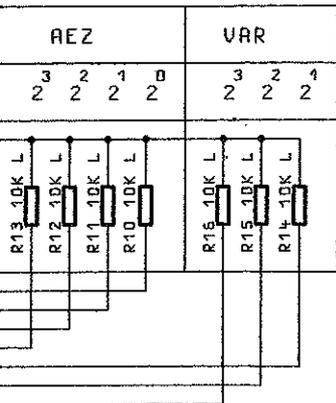
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

STUECKT
ED

| | | | | |
|------------|-----------------------|-------|--------|--------------|
| 03/02 | 09.03.94 | DR | 16PK | TAG |
| | | | BEARB. | |
| | | | GEPR. | |
| | | | NORN | |
| | | | PLOTT | 30.03.94 |
| | | | | |
| REND. IND. | RENDERUNGS-NITTEILUNG | DATUM | NAMN | ROHDE&SCH |
| | | | | ZU GERAT SME |

| VAR | R14 | R15 | R16 |
|-----|------|-----|------|
| 04 | N.F. | | N.F. |
| 06 | | | N.F. |

| AEZ | R13 | R12 | R11 | R10 |
|-----|------|------|------|------|
| 01 | N.F. | N.F. | N.F. | |
| 02 | N.F. | N.F. | | N.F. |
| 03 | N.F. | N.F. | | |
| 04 | N.F. | | N.F. | N.F. |
| 05 | N.F. | | N.F. | |
| 06 | N.F. | | | N.F. |
| 15 | | | | |



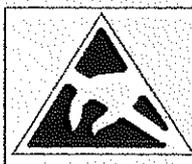
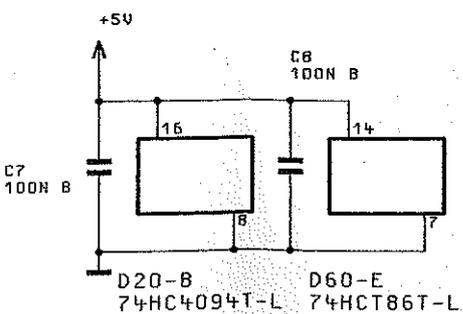
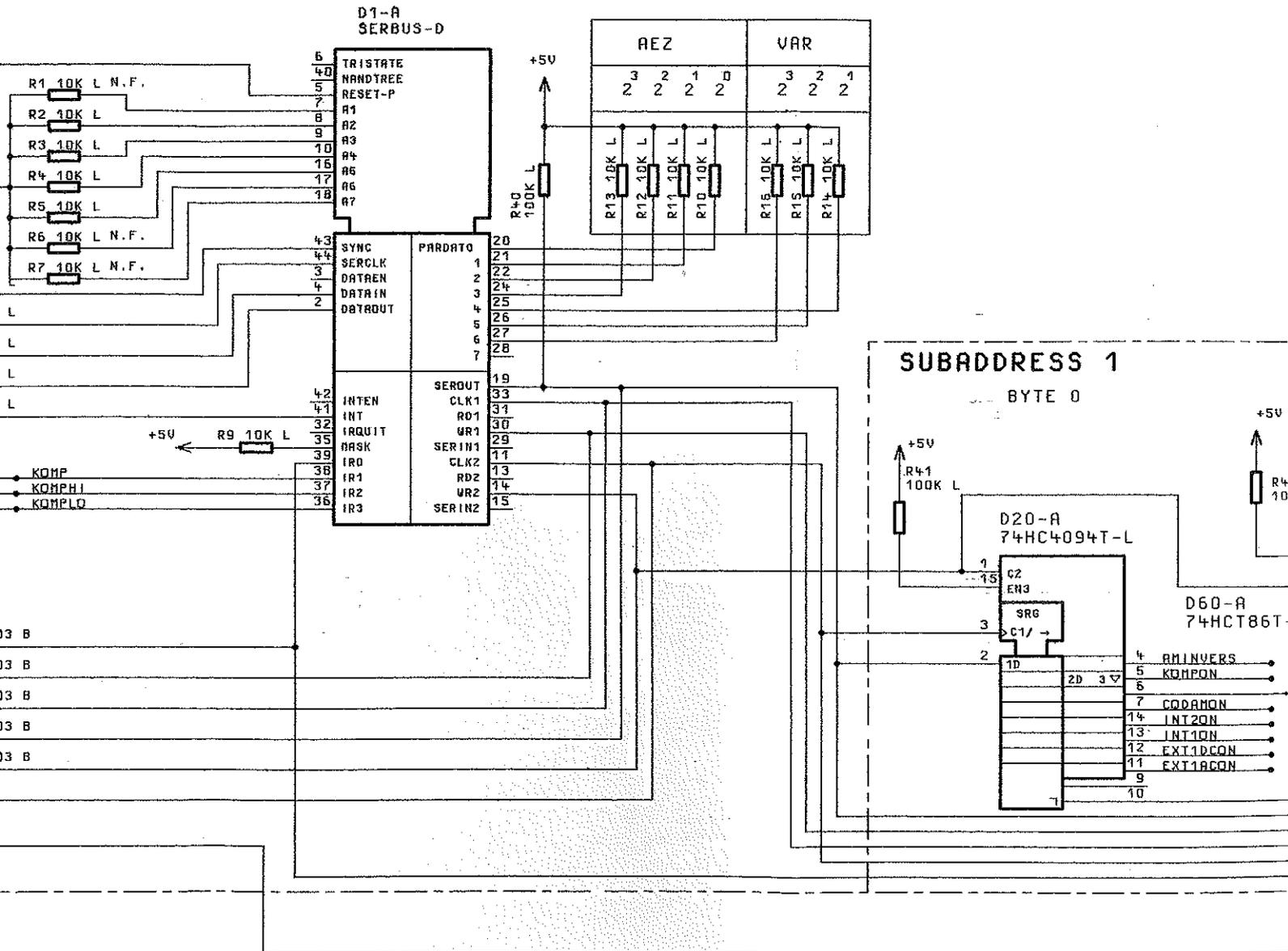
ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDLUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

N.F. - NICHT BESTUECKT
 NOT FITTED

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

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

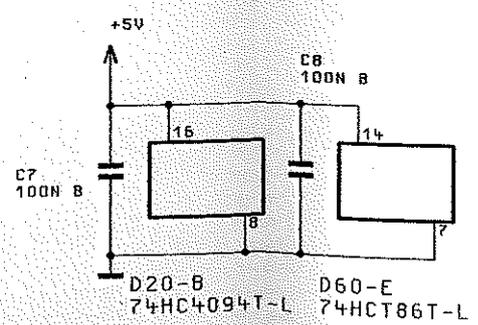
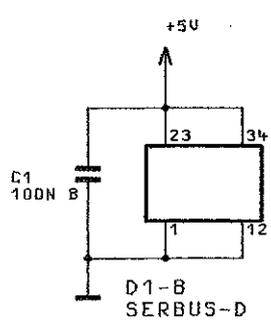
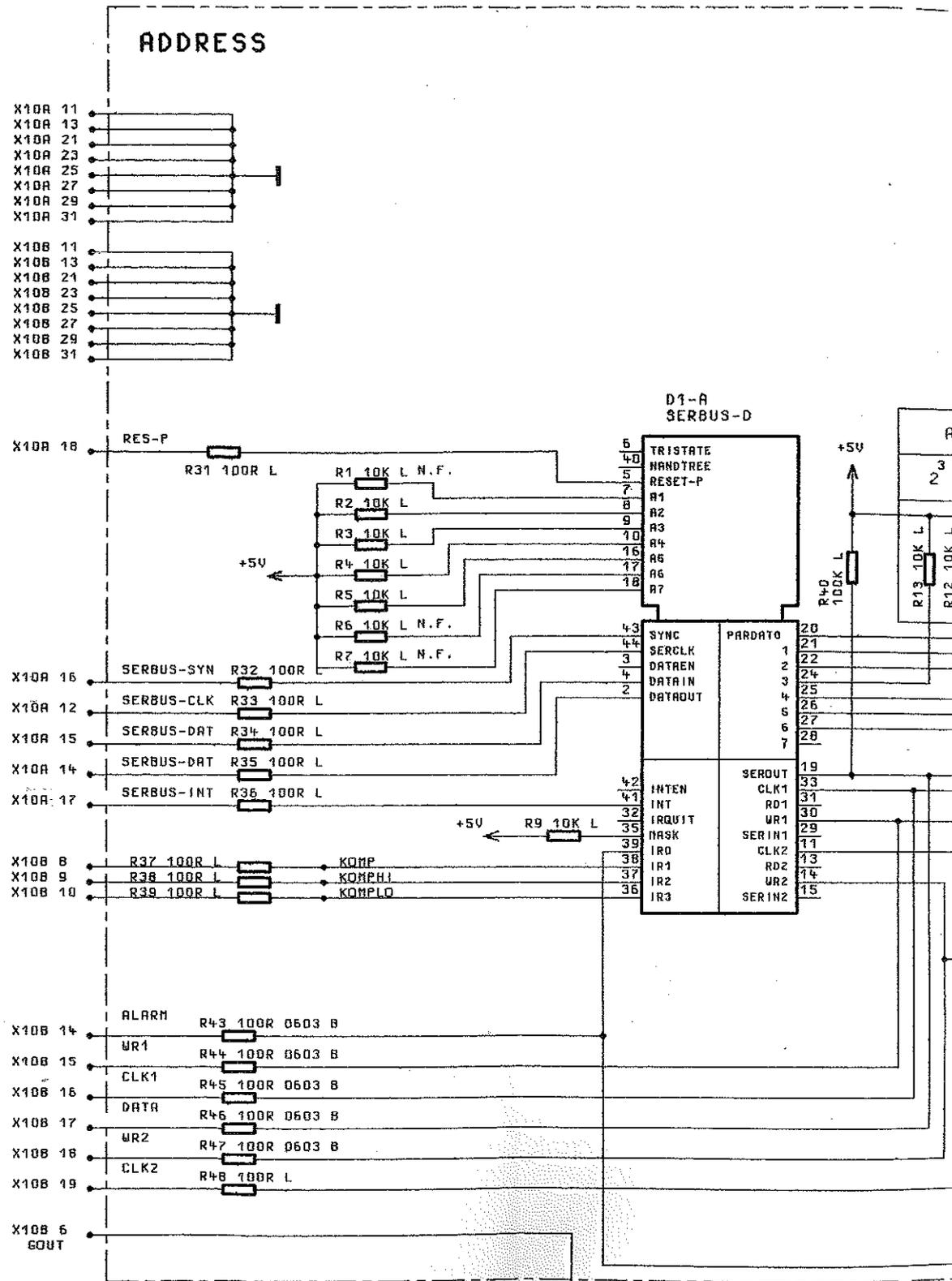
| VAR | R14 | R15 | R16 |
|-----|------|-----|------|
| 04 | N.F. | | N.F. |
| 06 | | | N.F. |



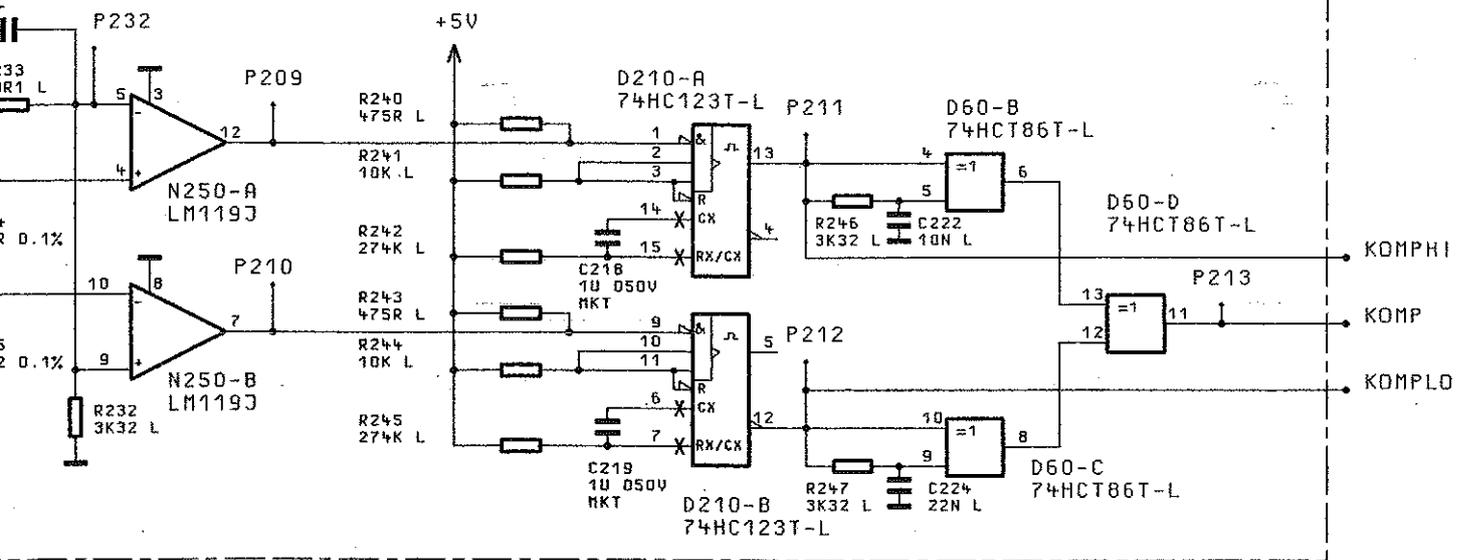
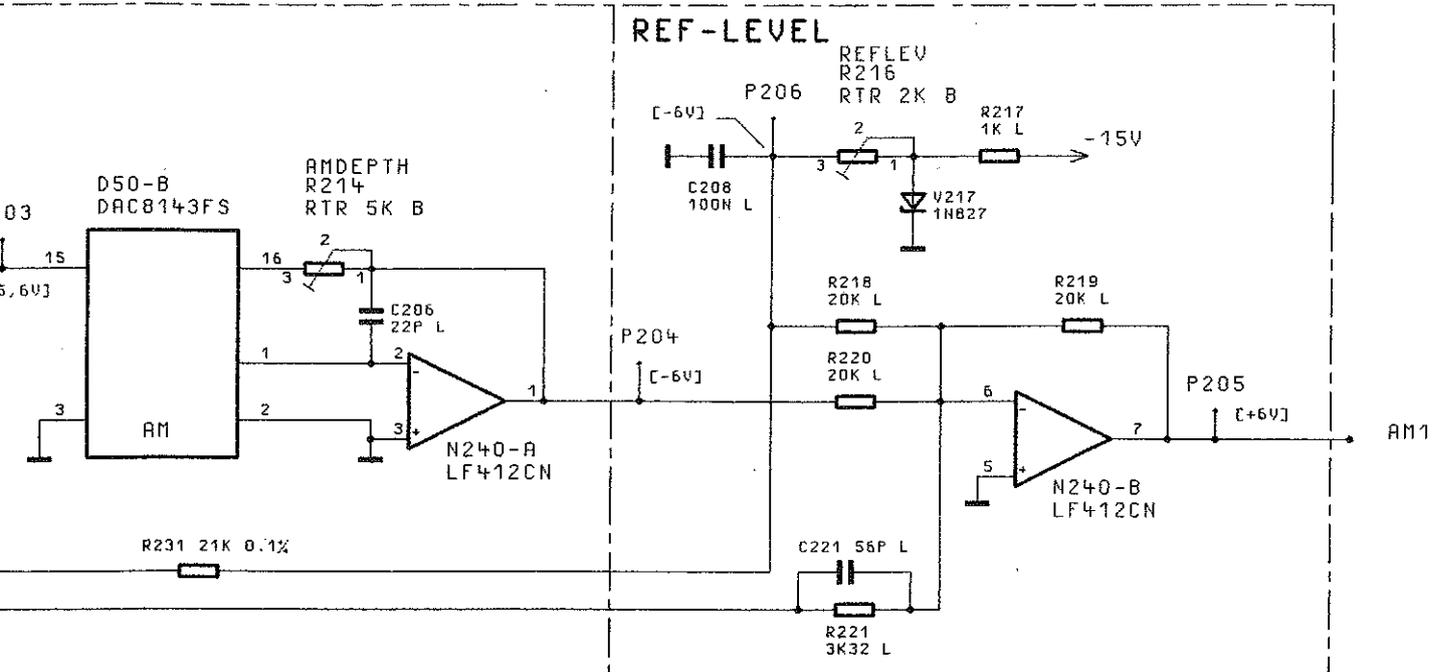
ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

N.F. = NICHT BESTUECKT
 NOT FITTED

FUER DIESE UNTERLAGE
 BEHALTEN WIR UNS ALLE RECHTE VOR



ZEICHN.-NR.

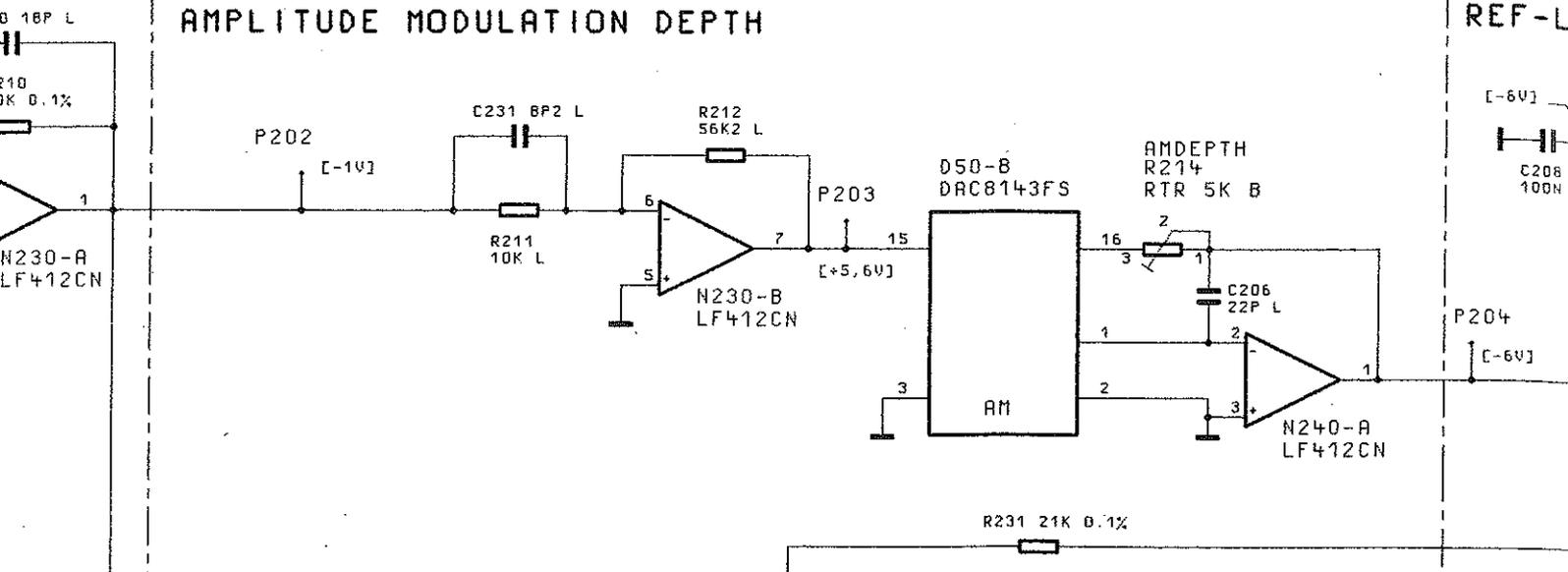


R.02

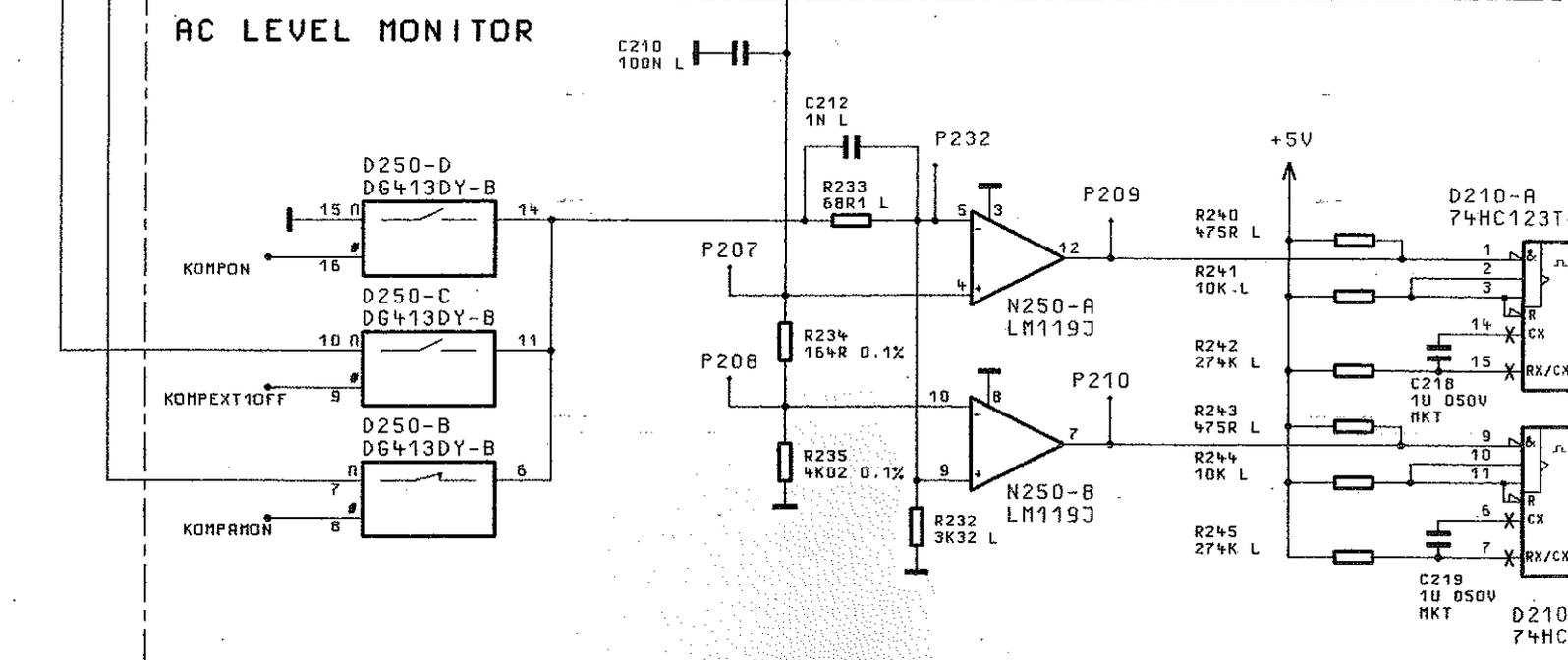
| | | | | | | | |
|------------|-----------------------|----------|------|----------------------------|----------|------------|--|
| 03/00 | 48731 | 04.05.93 | JN | 16PK | TAG | NAME | BENENNUNG |
| | | | | BEARB. | | DR | AUSGANGSTEIL 1.5GHZ OUTPUT UNIT 1.5GHZ |
| | | | | GEPR. | | DR | |
| | | | | NORN | | | |
| | | | | PLOTT | 04.05.93 | | |
| 02/06 | 48731/37 | 30.03.93 | BU | ROHDE & SCHWARZ | | | ZEICHN.-NR. 1038.7780.01S |
| REND. IND. | RENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERÄT | SME | REG. I. V. | 1038.6002 ERSTE Z. 1038.6048 |
| | | | | | | | BLATT-NR. 3+ |

AMPLITUDE MODULATION DEPTH

REF-L

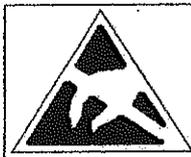


AC LEVEL MONITOR



STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02

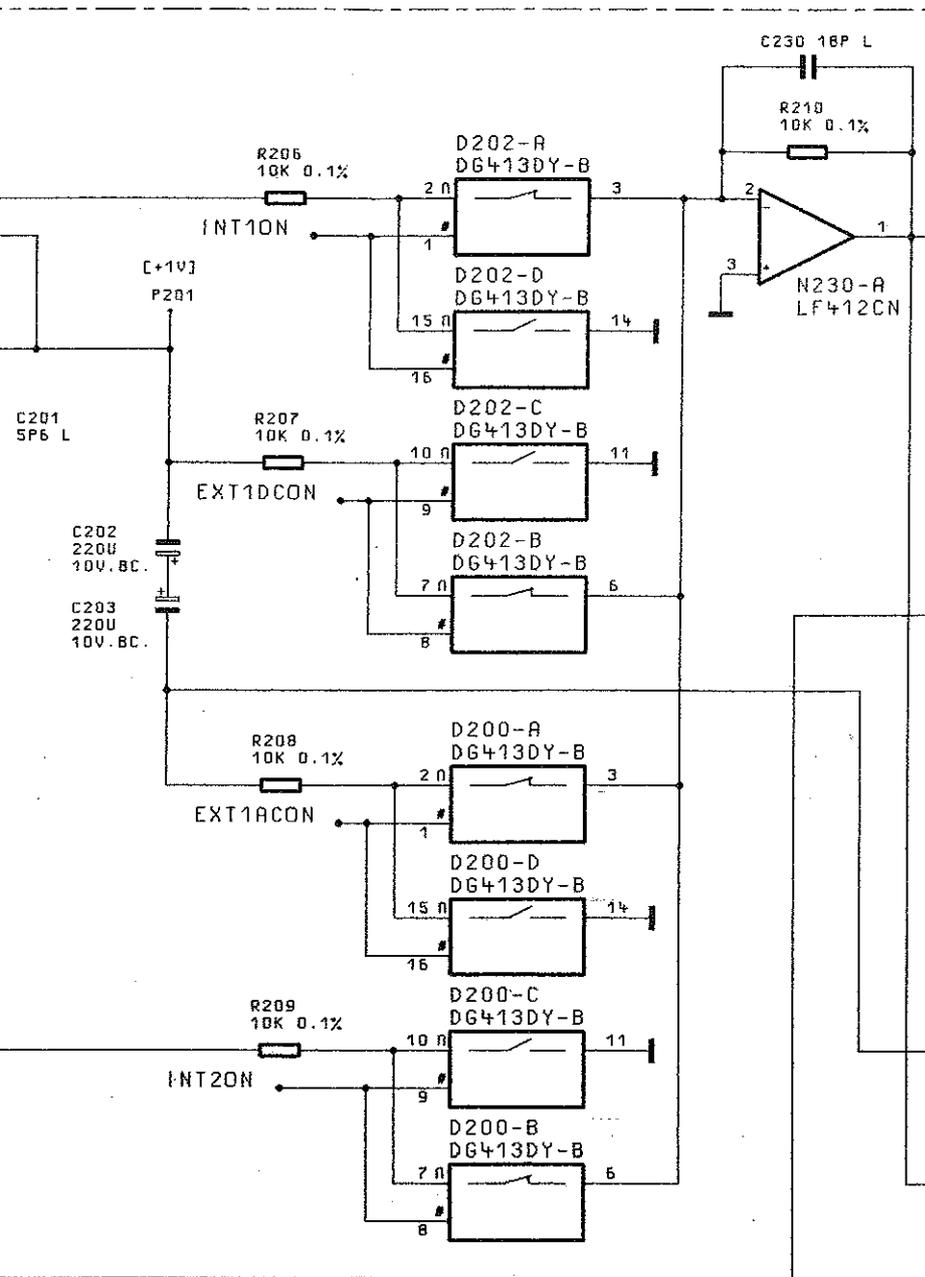


ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

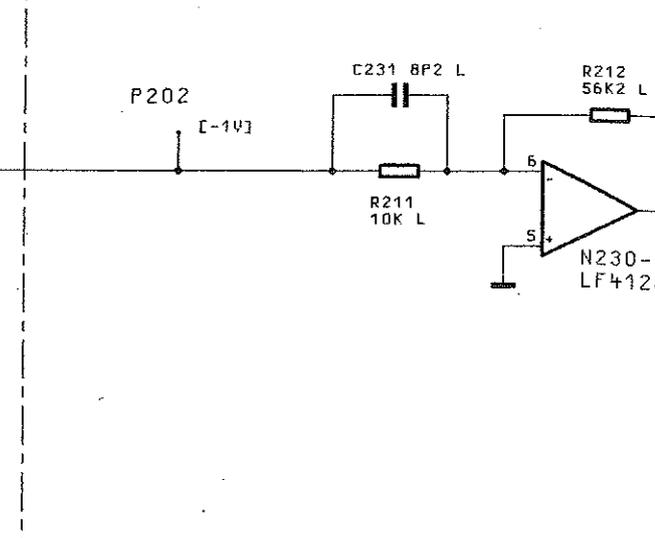
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|---------------|---------------------------|----------|------|--|----------|
| 03/00 | 48731 | 04.05.93 | JN | 16PK | TRG |
| | | | | BEARB. | |
| | | | | GEPR. | |
| | | | | NORM | |
| | | | | PLOTT | 04.05.93 |
| 02/06 | 48731/37 | 30.03.93 | BU | | |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAME | ROHDE & SCHNEIDER ZU GERÄT SME | |

P201

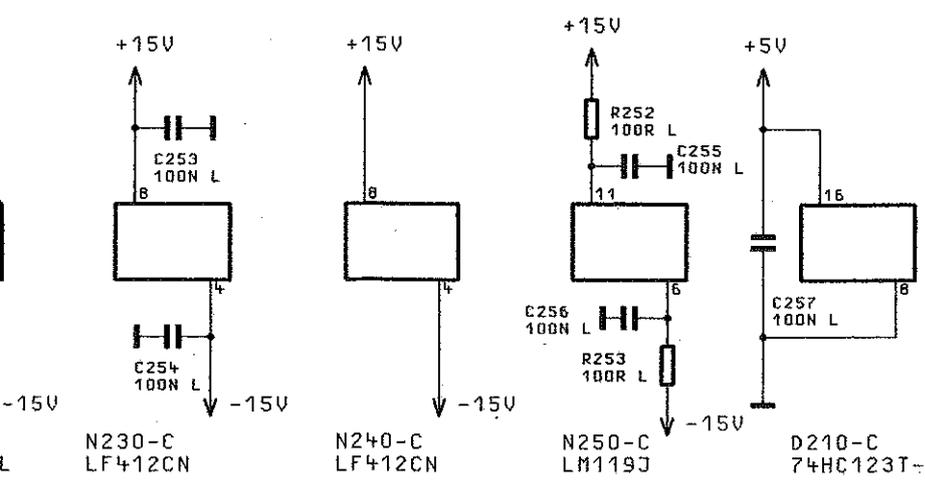
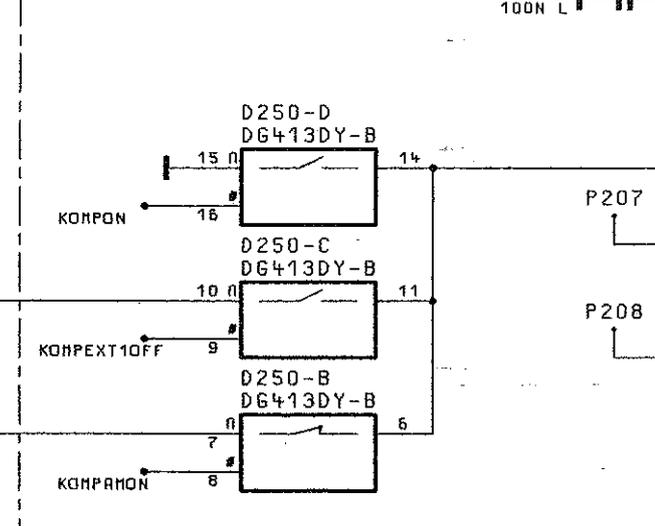
P202



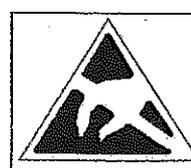
AMPLITUDE MODULATION DEPTH



AC LEVEL MONITOR

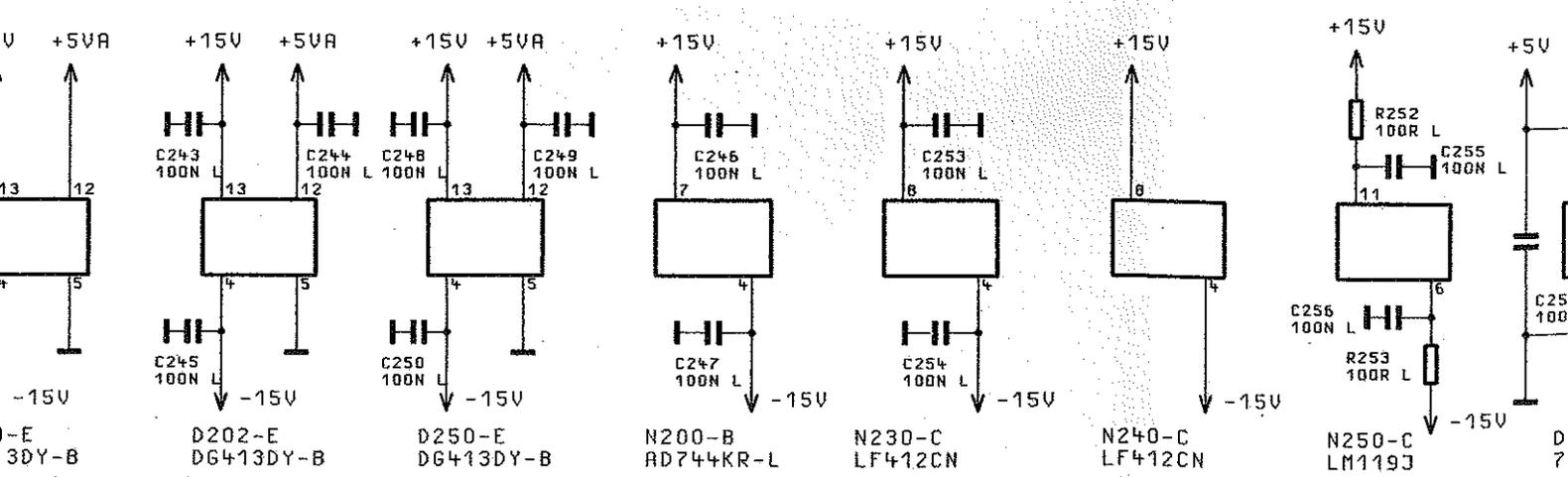
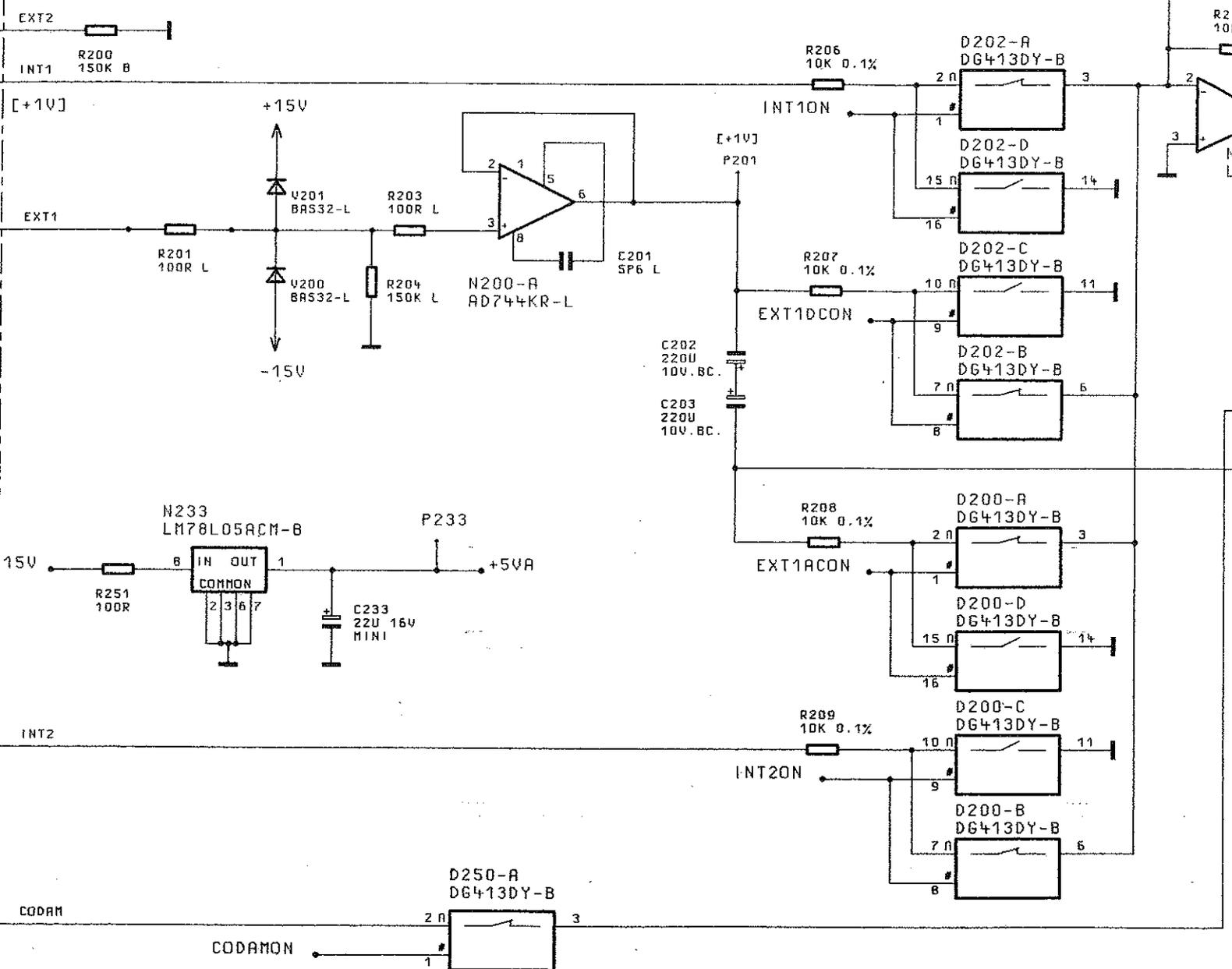


STROMLAUF GILT FUER
CIRCUIT DIAGRAM IS VALID FOR

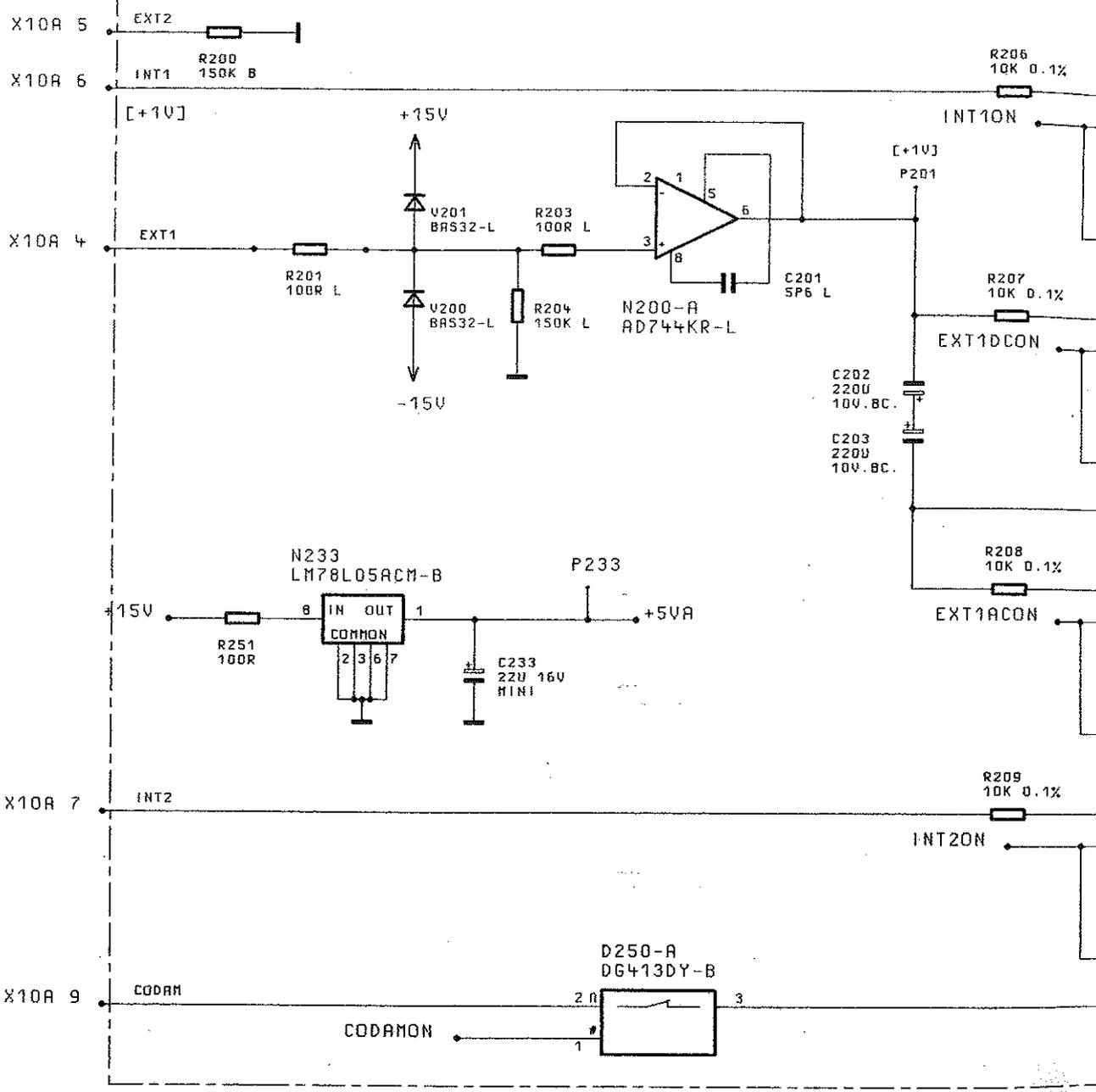


ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHR
BAUELEMENTE ERFORDERN
BESONDERE HANDHABUNG
ATTENTION ESD
ELECTROSTATIC SENSITIVE
REQUIRE A SPECIAL HANDLING

AM INPUT SELECT

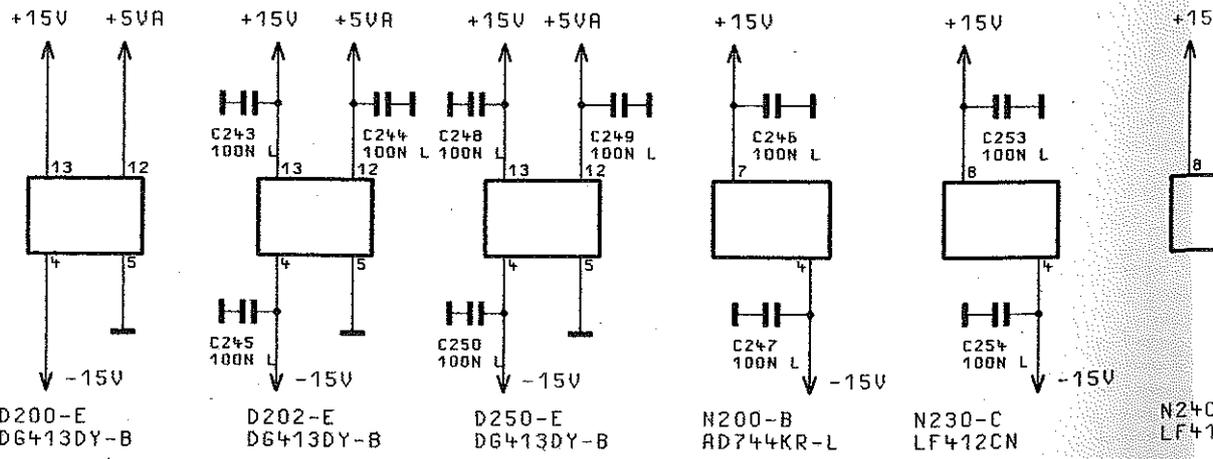


AM INPUT SELECT



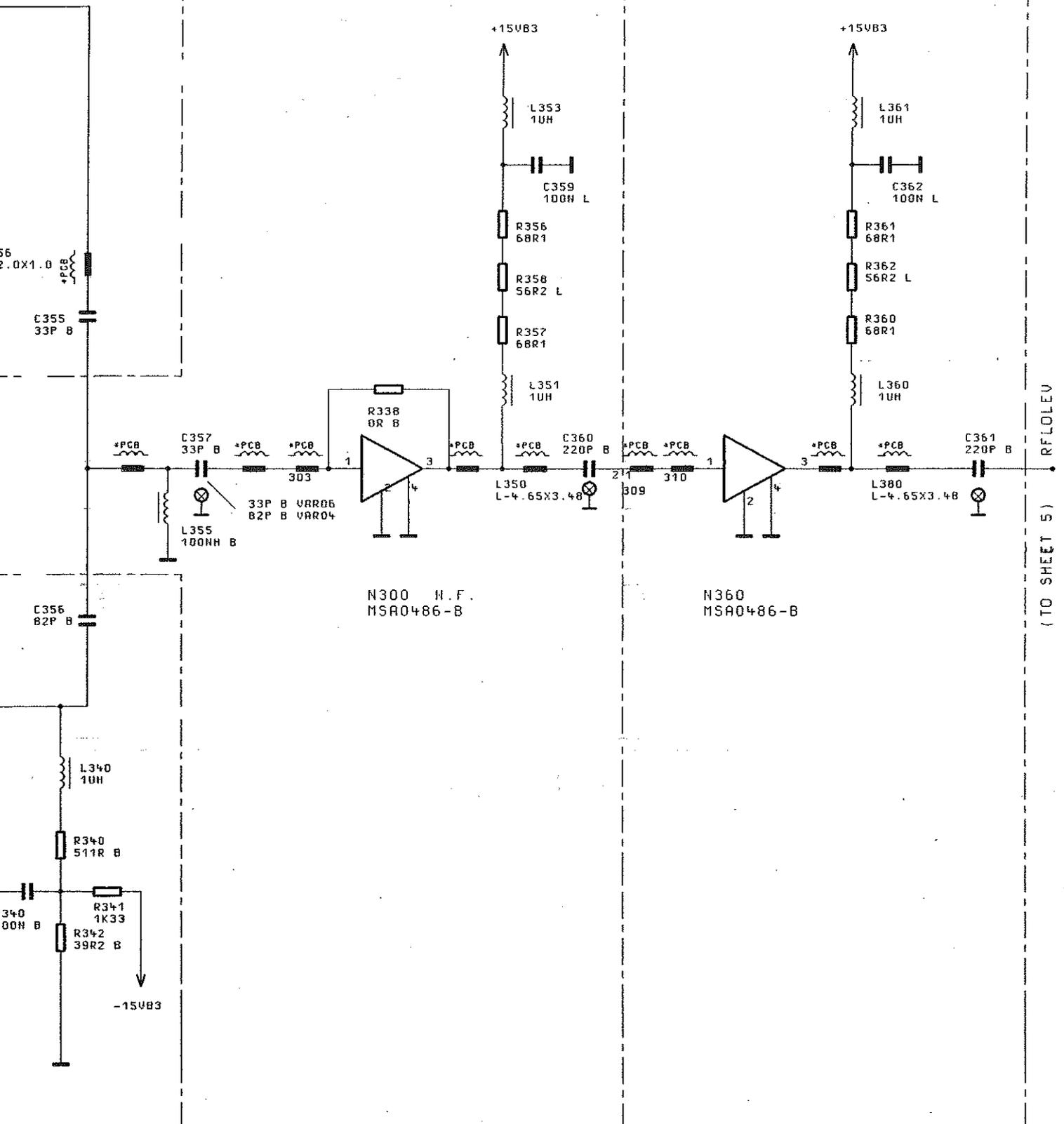
FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN-NR.



RF AMPLIFIER 1

RF AMPLIFIER 2

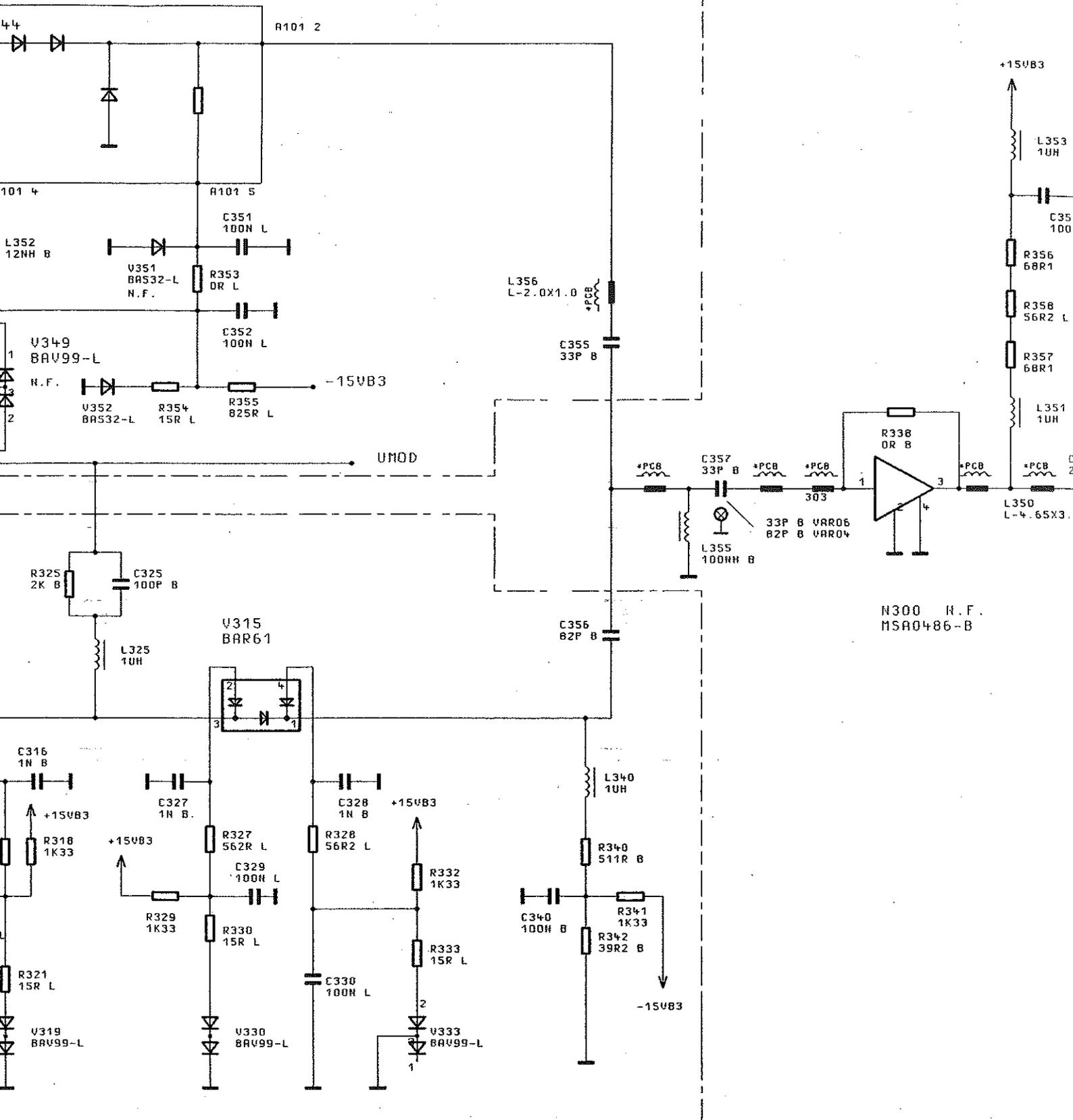


(TO SHEET 5) RFLOLEV

| | | | | | | | | | | | |
|------------|-----------------------|-------|--|----------|------|---|-----------|----------|-----------|-----------|----|
| 03/01 | 09.03.94 | DR | 16PK | TAG | NAME | BENENNUNG | | | | | |
| | | | BEARB. | | DR | AUSGANGSTEIL 1.5GHZ OUTPUT UNIT 1.5GHZ | | | | | |
| | | | GEPR. | | | | | | | | |
| | | | NORN | | | | | | | | |
| | | | PLOTT | 02.08.95 | | | | | | | |
| | | |  ROHDE & SCHWARZ | | | ZEICHN.-NR. | | | | | |
| | | | | | | 1038.7780.01S | | | | | |
| BEND. IND. | RENDERUNGS-NITTEILUNG | DATUM | NAME | ZU GERÄT | SME | REG. I. V. | 1038.6002 | ERSTE Z. | 1038.6048 | BLATT-NR. | 4+ |

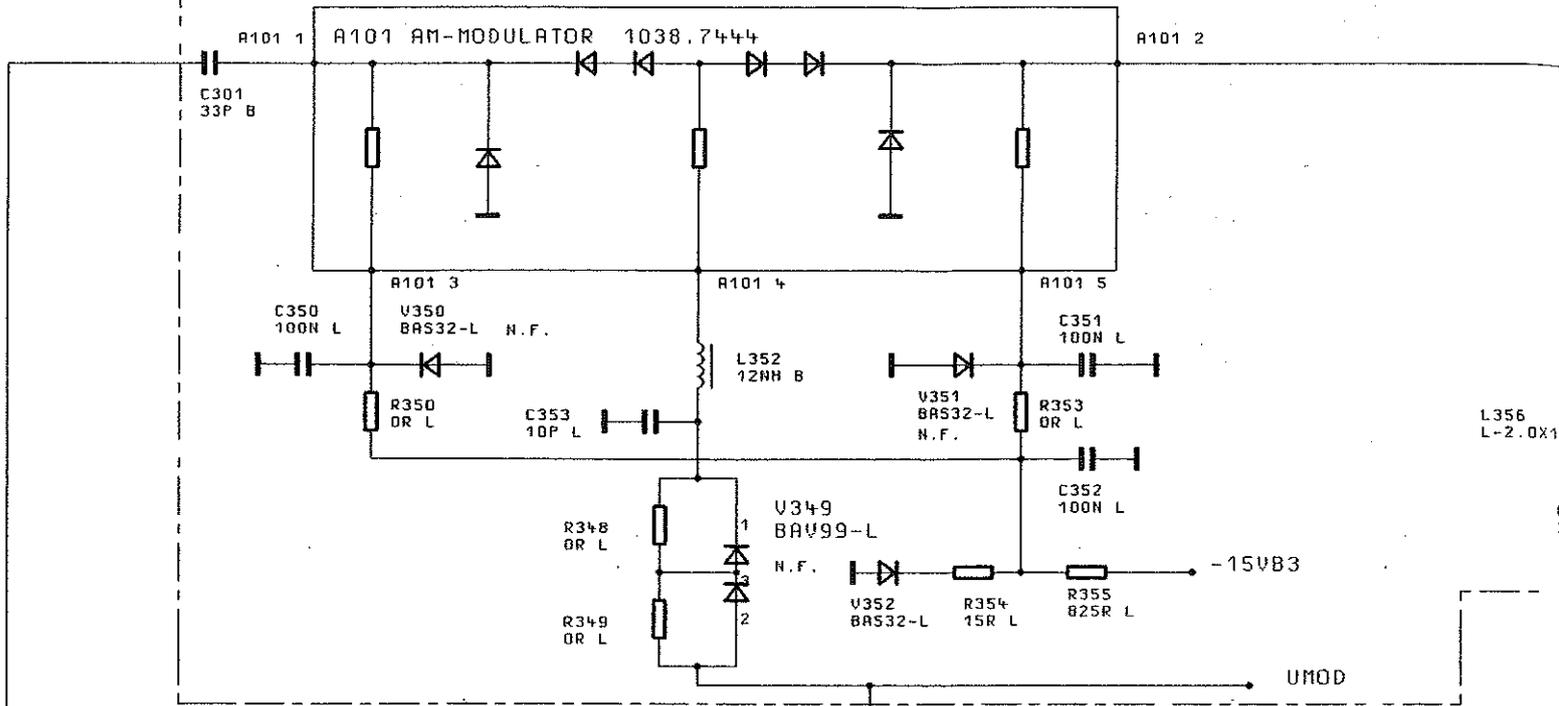
ME VAR06

RF AMPLIFIER 1

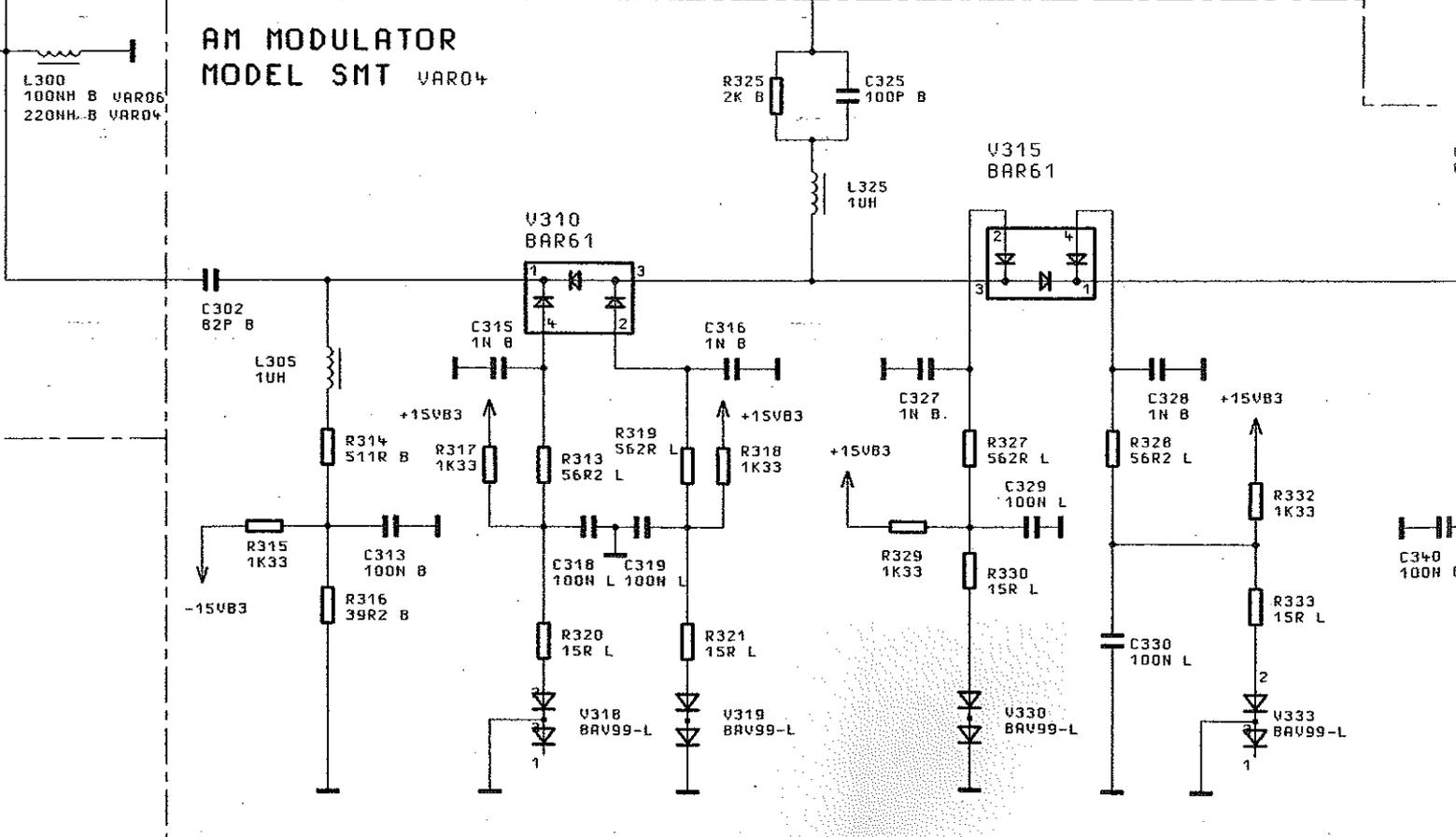


| | | | | | |
|------------|----------------------|-------|--------|--------------|------|
| 03/04 | 09.03.94 | DR | 16PK | TAG | NAME |
| | | | BEARB. | | DR |
| | | | GEPP. | | |
| | | | NORM | | |
| | | | PLOTT | 02.08.95 | |
| | | | | | |
| REND. IND. | RENDERUNGS-ABTEILUNG | DATUM | NAME | ZU GERÄT SME | |

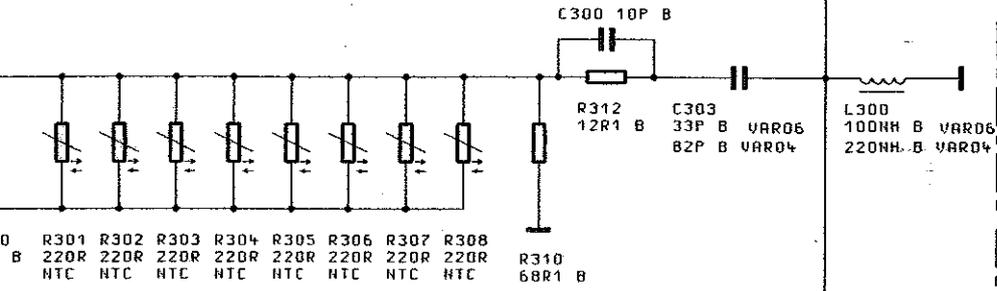
AM MODULATOR MODEL SME VAR06



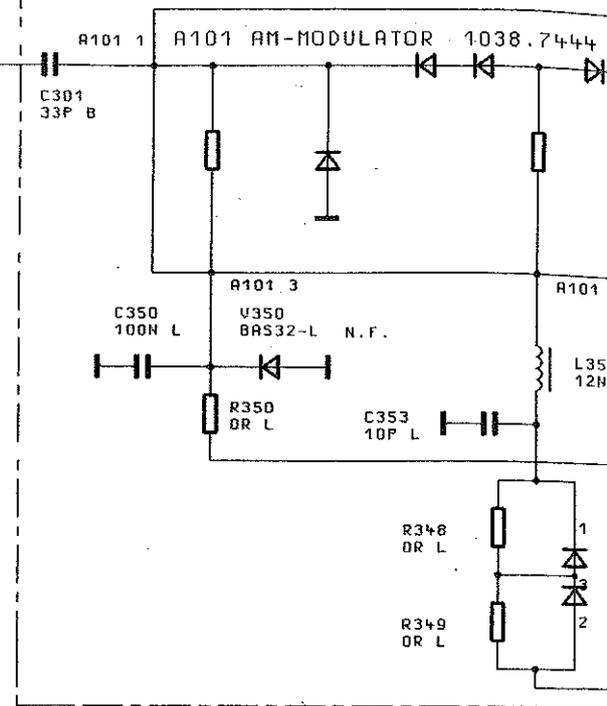
AM MODULATOR MODEL SMT VAR04



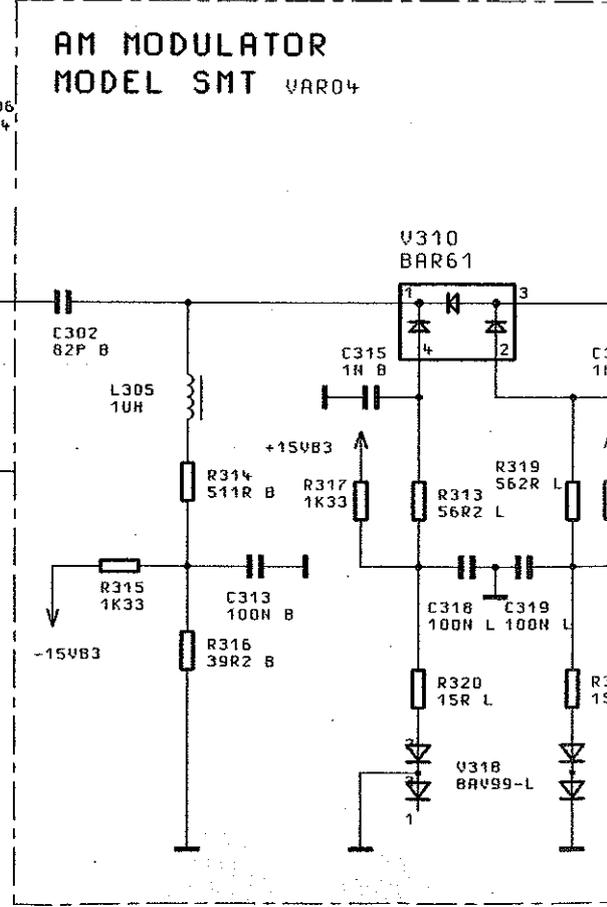
TEMP.-KOMPENSATION



AM MODULATOR MODEL SME



AM MODULATOR MODEL SMT VAR04



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

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

TEMP.-KOMPENSATION

FSUM
66...1500MHZ
6...9DBM

X101 1

| | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|
| R300 | R301 | R302 | R303 | R304 | R305 | R306 | R307 | R308 |
| 27R B | 220R |
| GHZ | NTC |

C300 10P B

R312
12R1 B

C303
33P B VAR05
82P B VAR04

R310
68R1 B

L300
100NH B VAR06
220NH-B VAR04

C301
33P

C302
82P

-15V

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

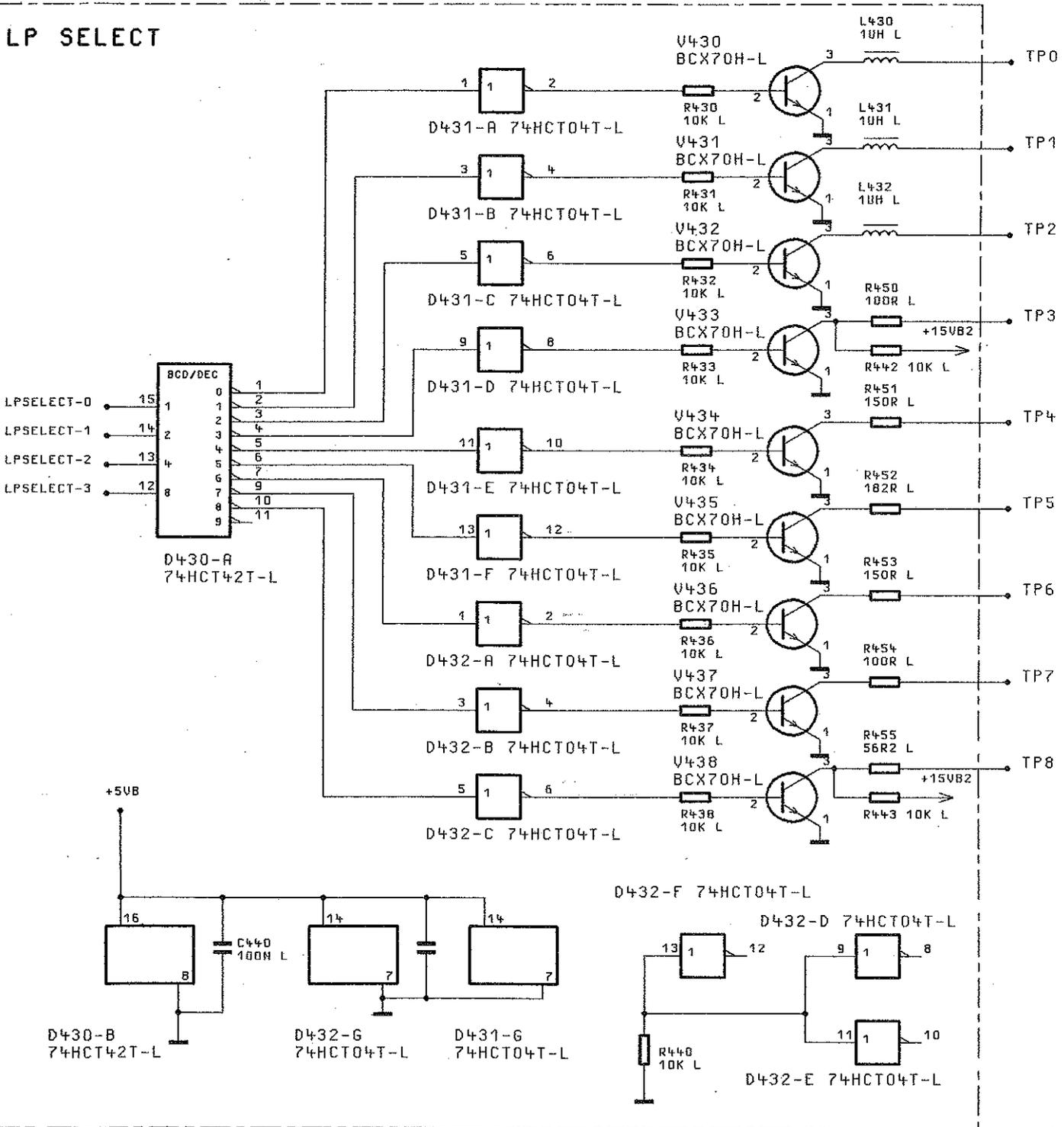
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FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

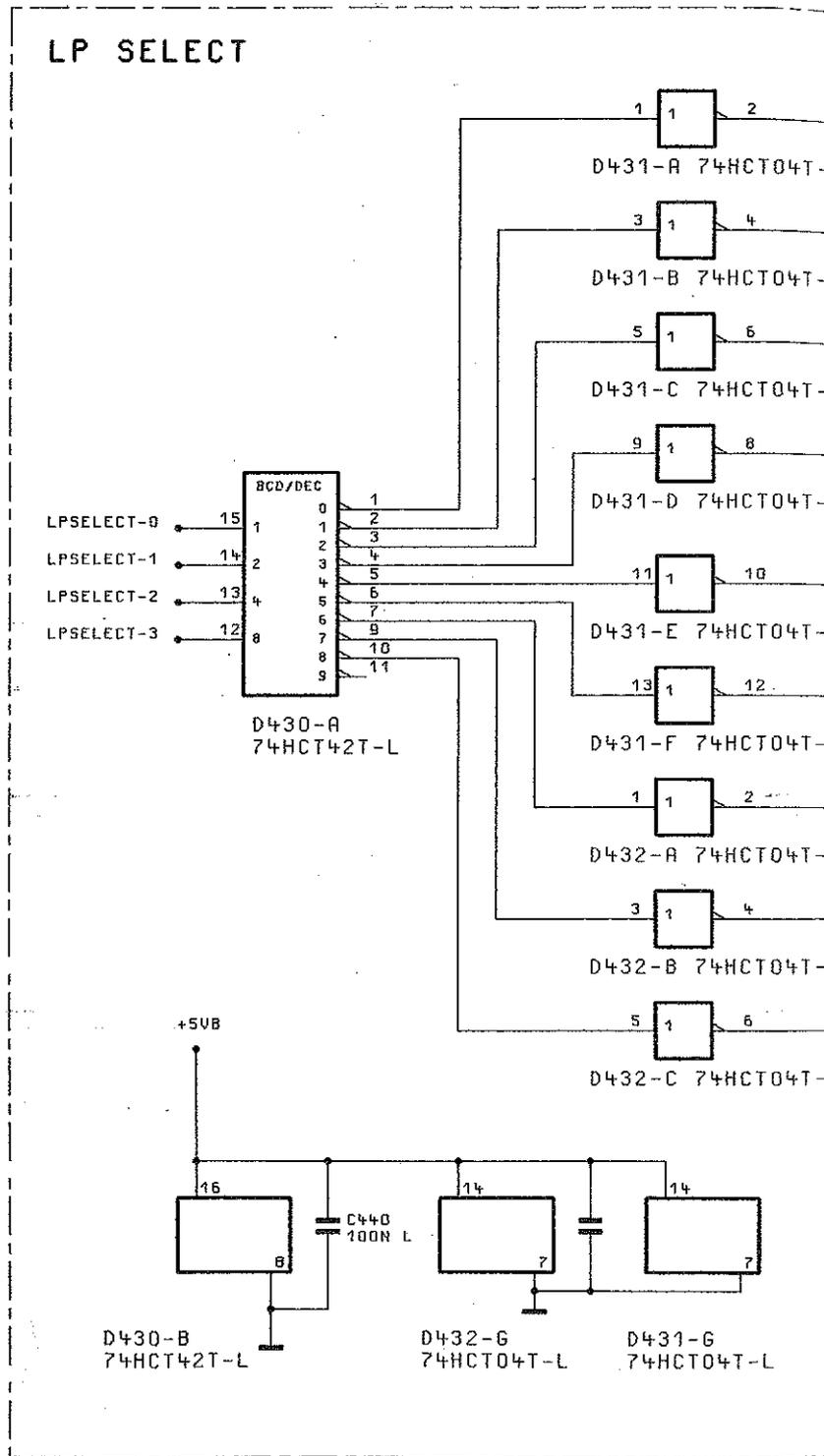
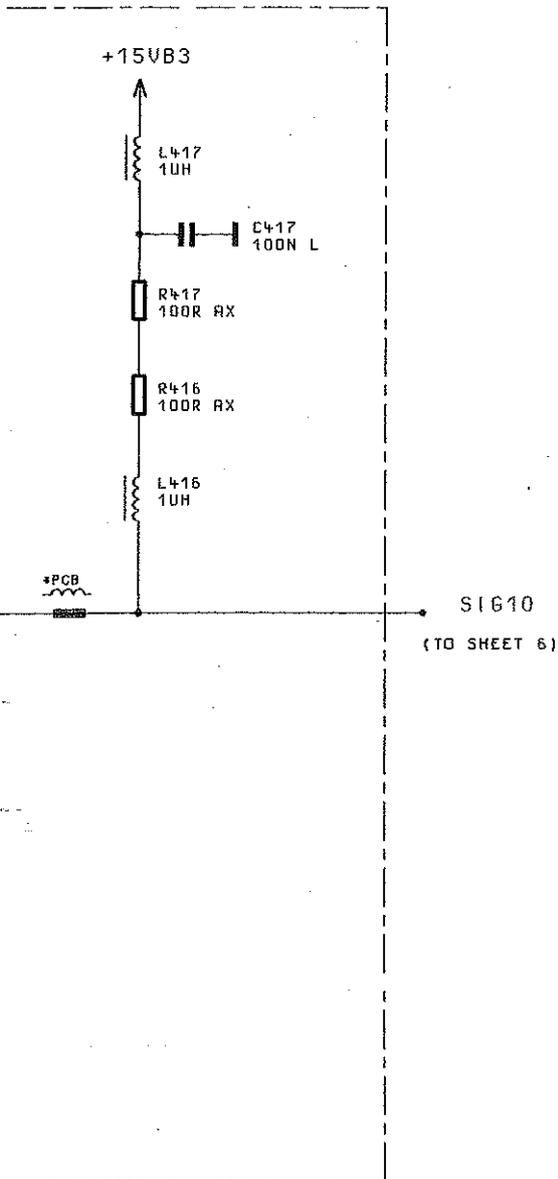
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR.

LP SELECT



| | | | | | | | | | |
|---------------|--------------------------|----------|------|--|----------|---------------|---|-----------|-----------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NAME | BENENNUNG | | |
| | | | | BEARB. | | DR | AUSGANGSTEIL 1.5GHZ OUTPUT UNIT 1.5GHZ | | |
| | | | | GEPR. | | DR | | | |
| | | | | NORM | | | | | |
| | | | | PLOTT | 04.05.93 | | | | |
| 02/06 | 48731/37 | 30.03.93 | BU |  ROHDE & SCHWARZ | | ZEICHN.-NR. | | BLATT-NR. | |
| REND. IND. | ÄNDERUNGS- MITTEILUNG | DATUM | NAMN | | | 1038.7780.01S | | 5+ | |
| | | | | ZU GERÄT | SME | REG. I. V. | 1038.6002 | ERSTE Z. | 1038.6048 |



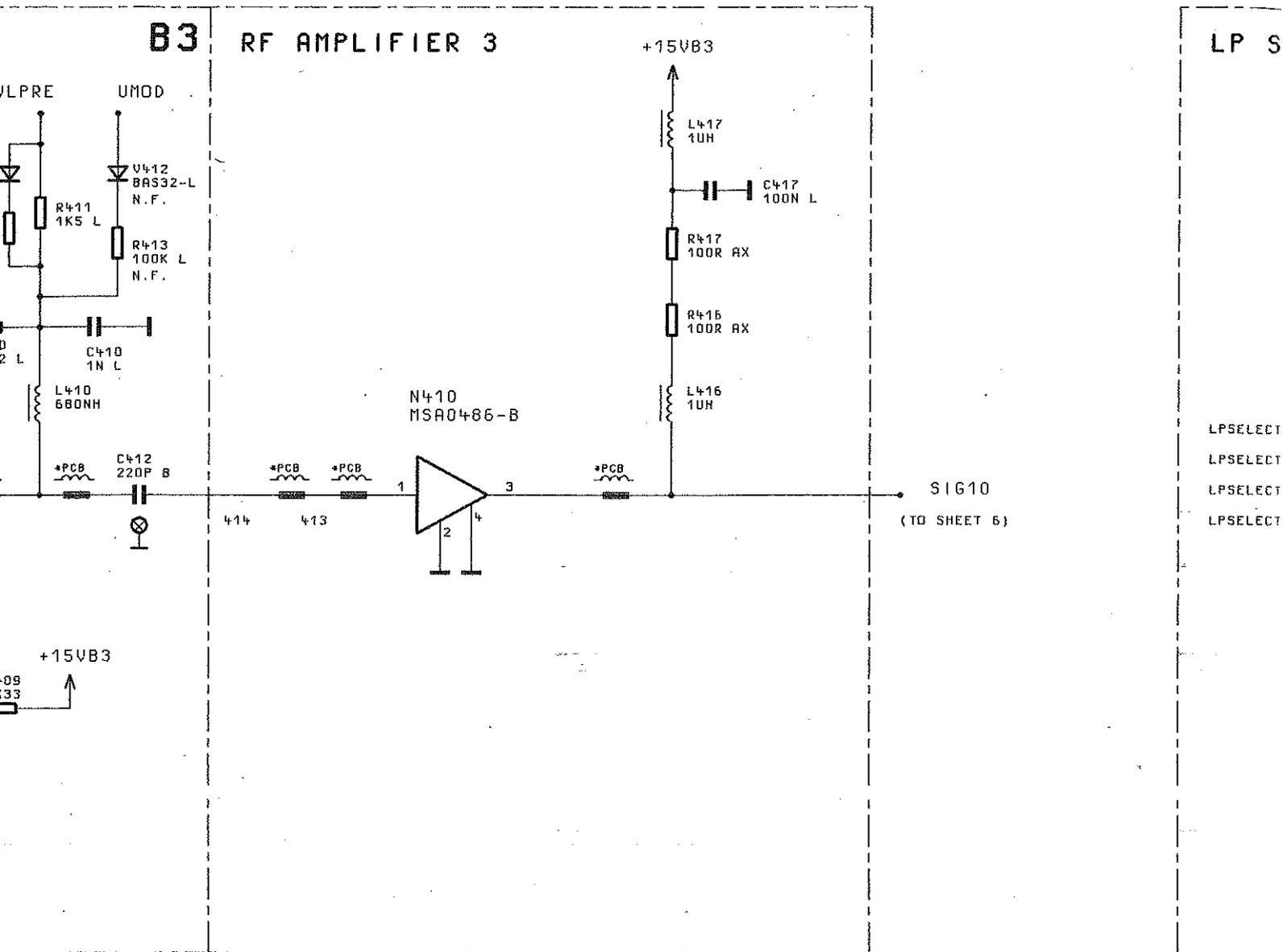
LT FUER VAR.02

S VALID FOR MOD.02



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

| | | | | | | |
|--------------|--------------------------|----------|------|---|----------|------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NAME |
| | | | | BEARB. | | DR |
| | | | | GEPR. | | DR |
| | | | | NORM | | |
| | | | | PLOTT | 04.05.93 | |
| 02/06 | 48731/37 | 30.03.93 | BU |  ROHDE & SCHWARZ | | |
| ÄND. IND. | ÄNDERUNGS- MITTEILUNG | DATUM | NAME | | | |



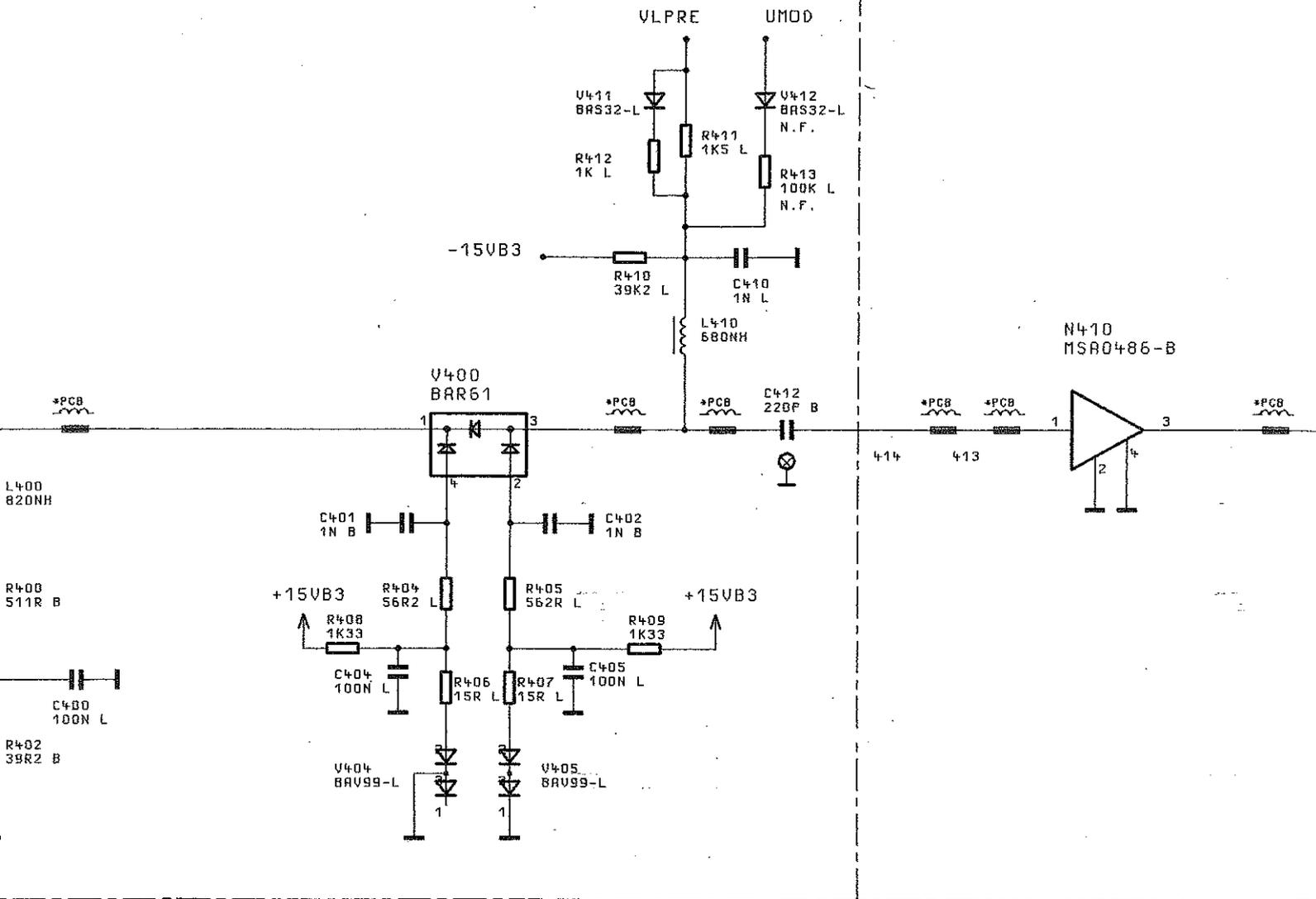
STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02



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

B3 RF AMPLIFIER 3

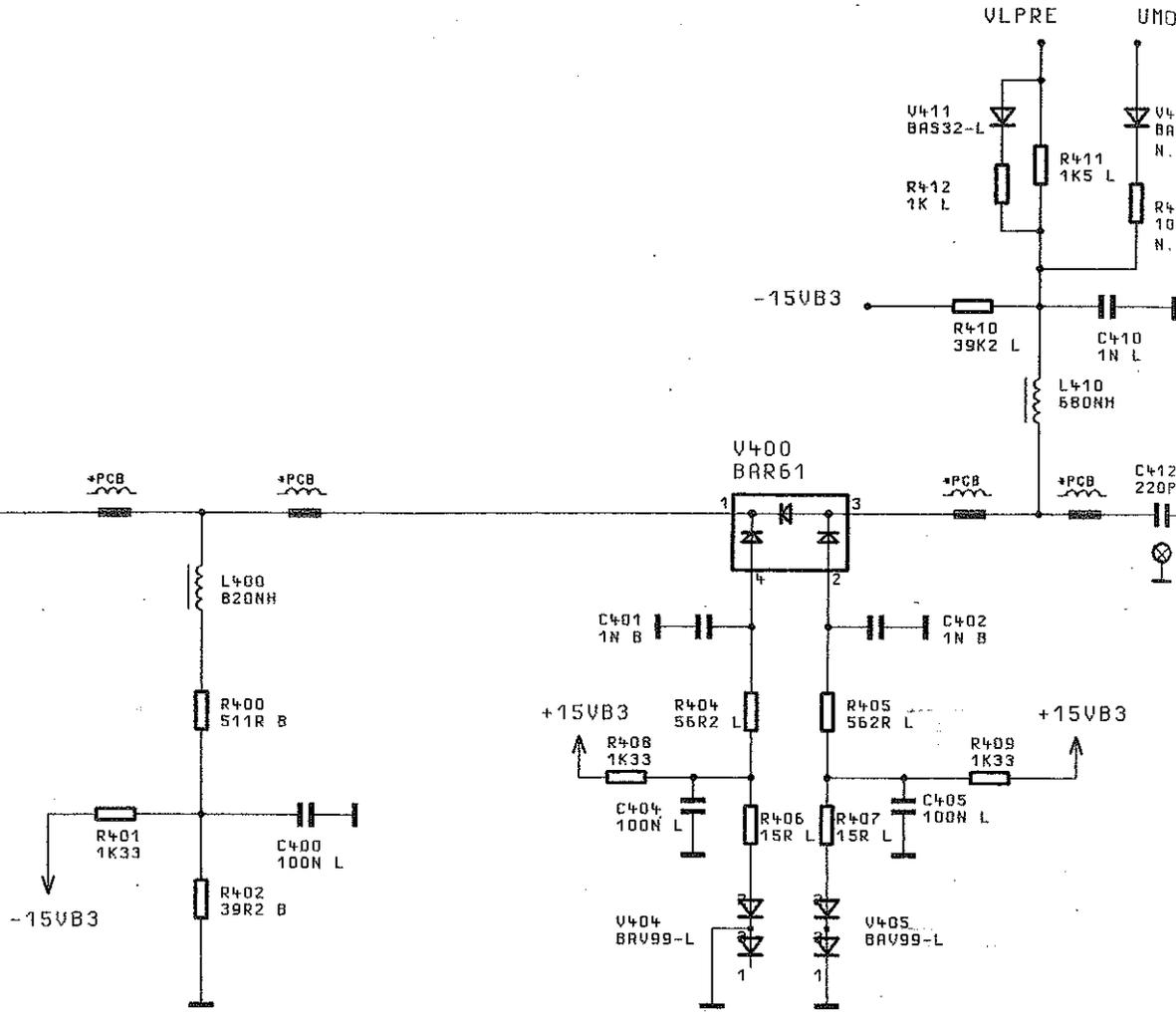


STROMLAUF GILT FUE

CIRCUIT DIAGRAM IS VALID F

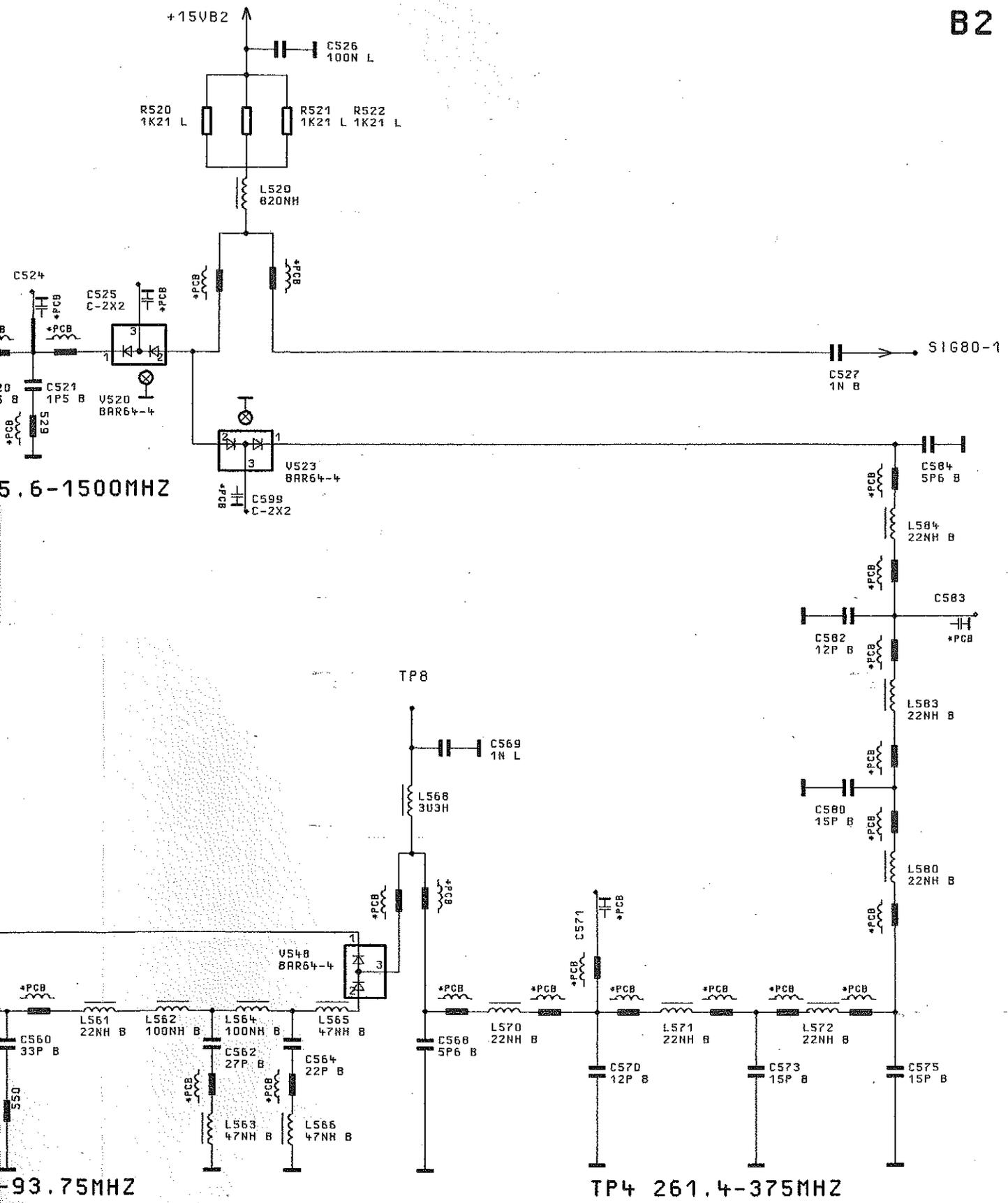
LEVEL PRESET

RFLOLEV
(FROM SHEET 4)

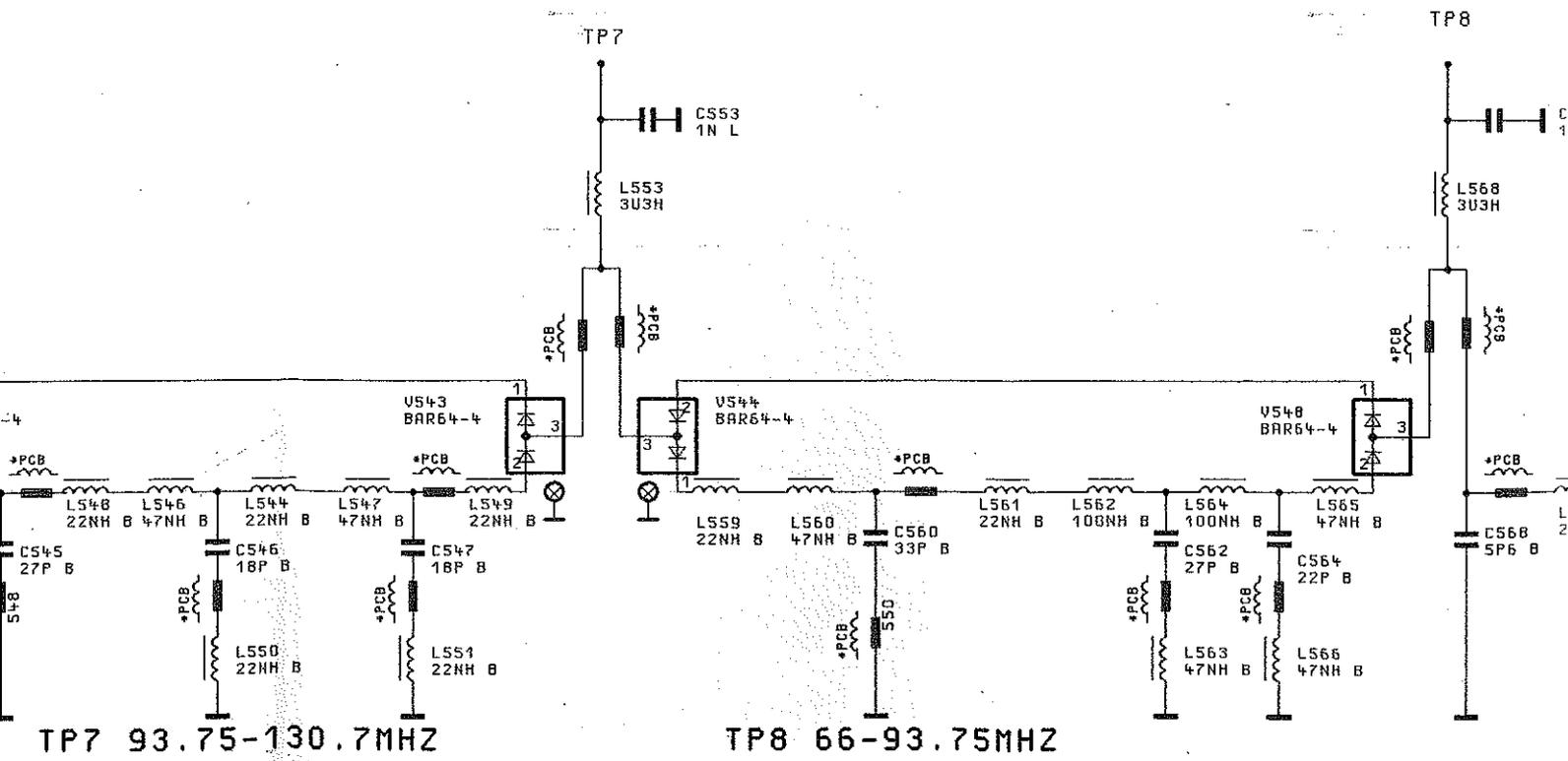
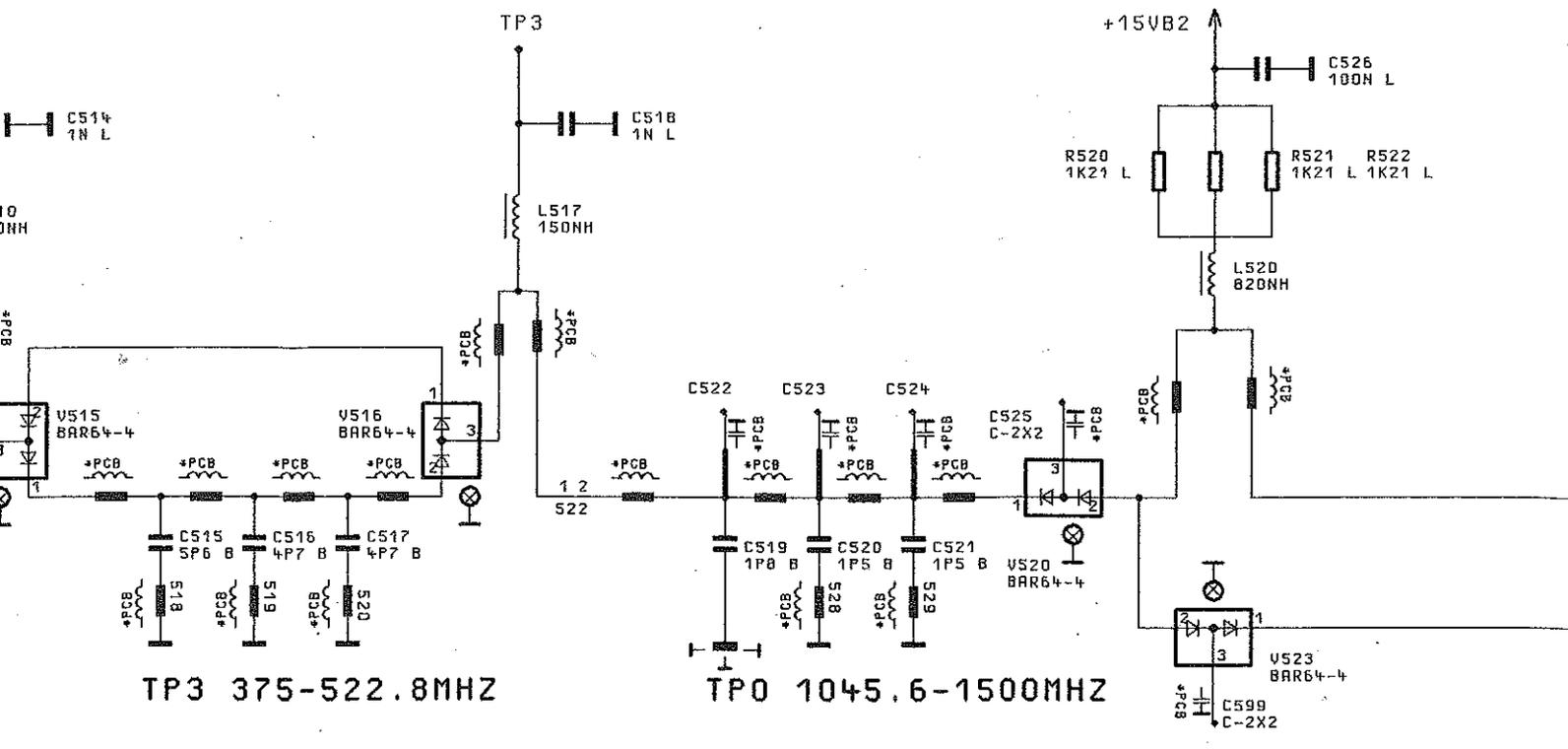


FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

B2

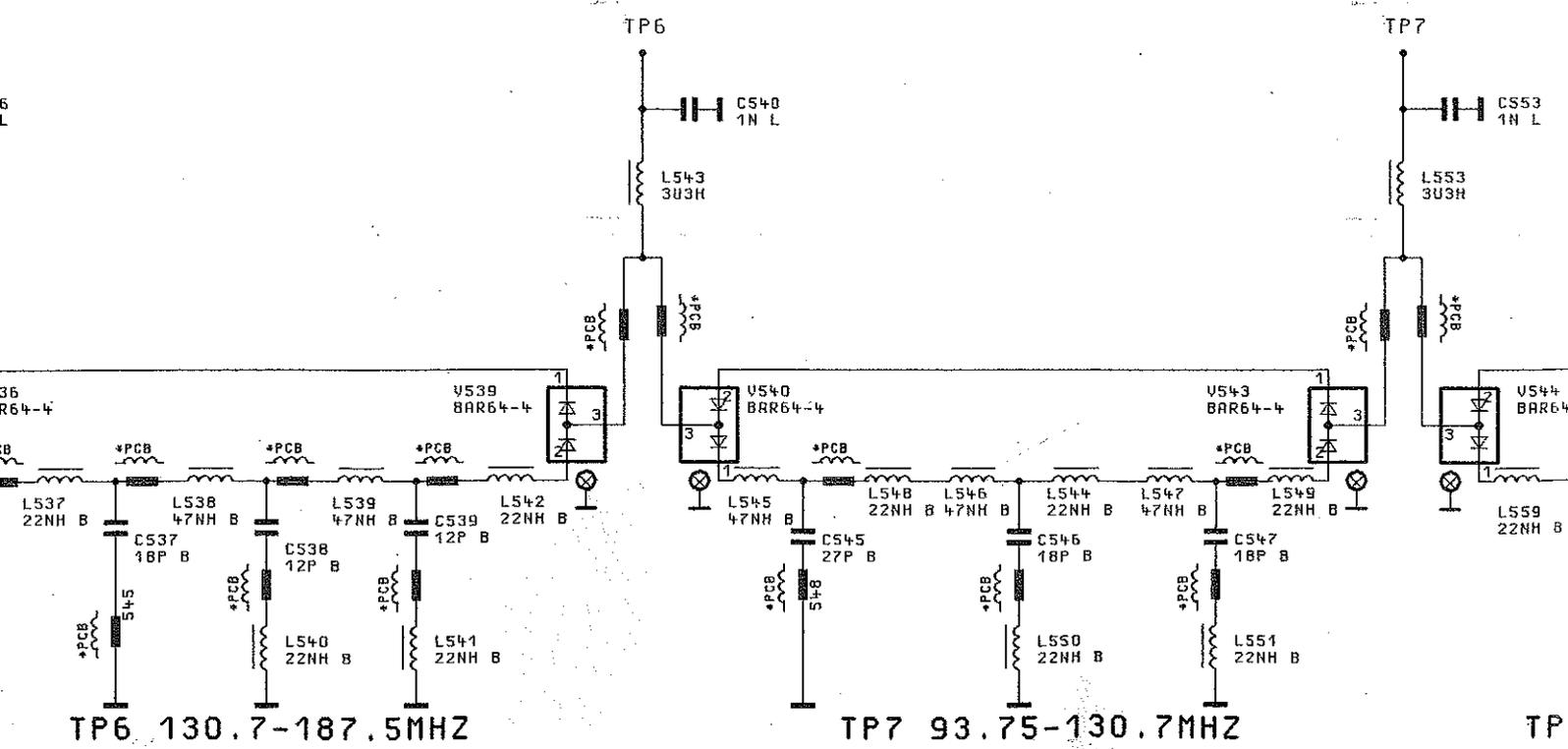
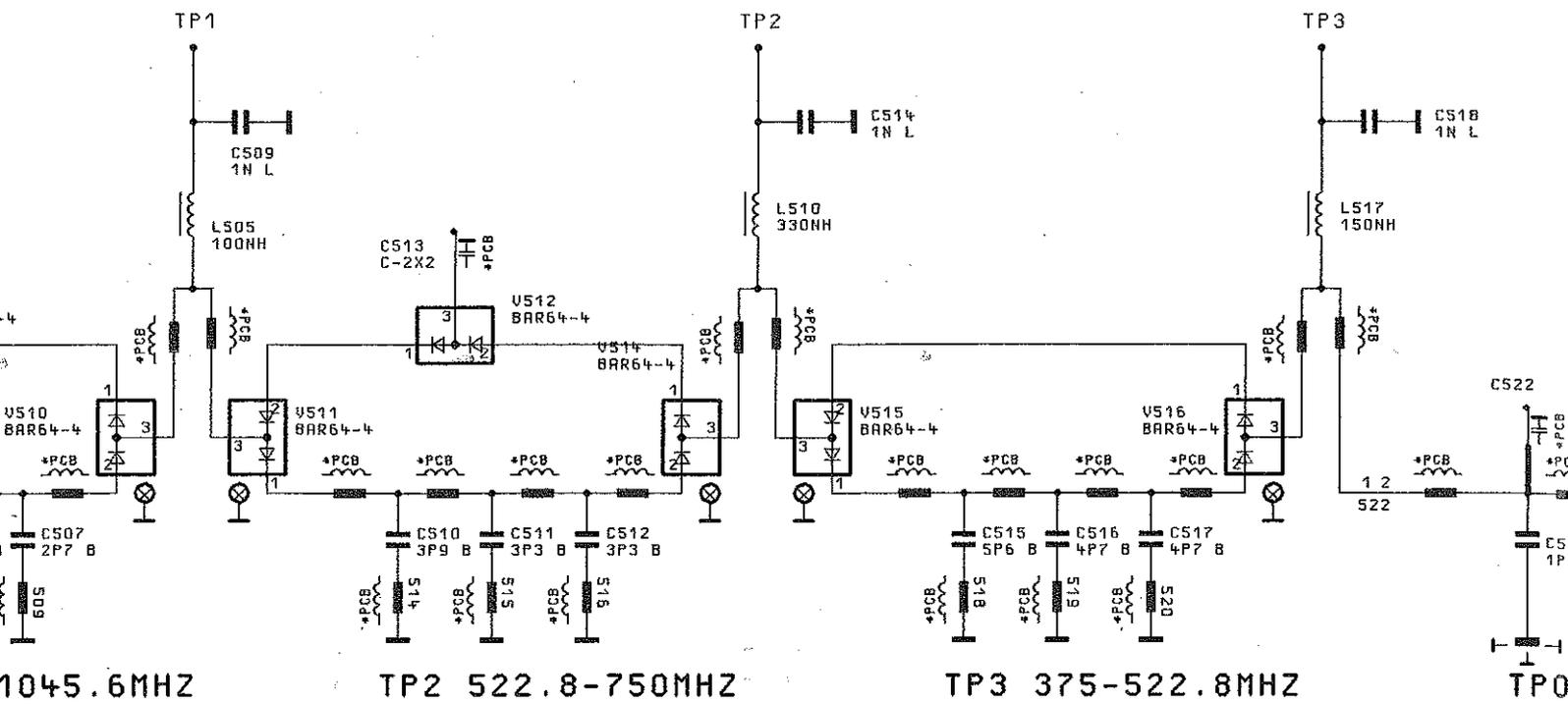


| | | | | | | | |
|---------------|---------------------------|----------|------|--|---|-------------|---|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TRG | NAME | BENENNUNG AUSGANGSTEIL 1.56HZ OUTPUT UNIT 1.56HZ |
| | | | | BEARB. | | DR | |
| | | | | GEPR. | | DR | |
| | | | | NORM | | | |
| | | | | PLOTT | 04.05.93 | | |
| 02/06 | 48731/37 | 30.03.93 | BU |  ROHDE&SCHWARZ | | ZEICHN.-NR. | 1038.7780.015 |
| REND. IND. | RENDERUNGS- MITTELFUNG | DATUM | NAME | | | REG. I. V. | |
| | | | | |  | | BLATT-NR. |
| | | | | | | | 6+ |
| | | | | | | | V. BL. |



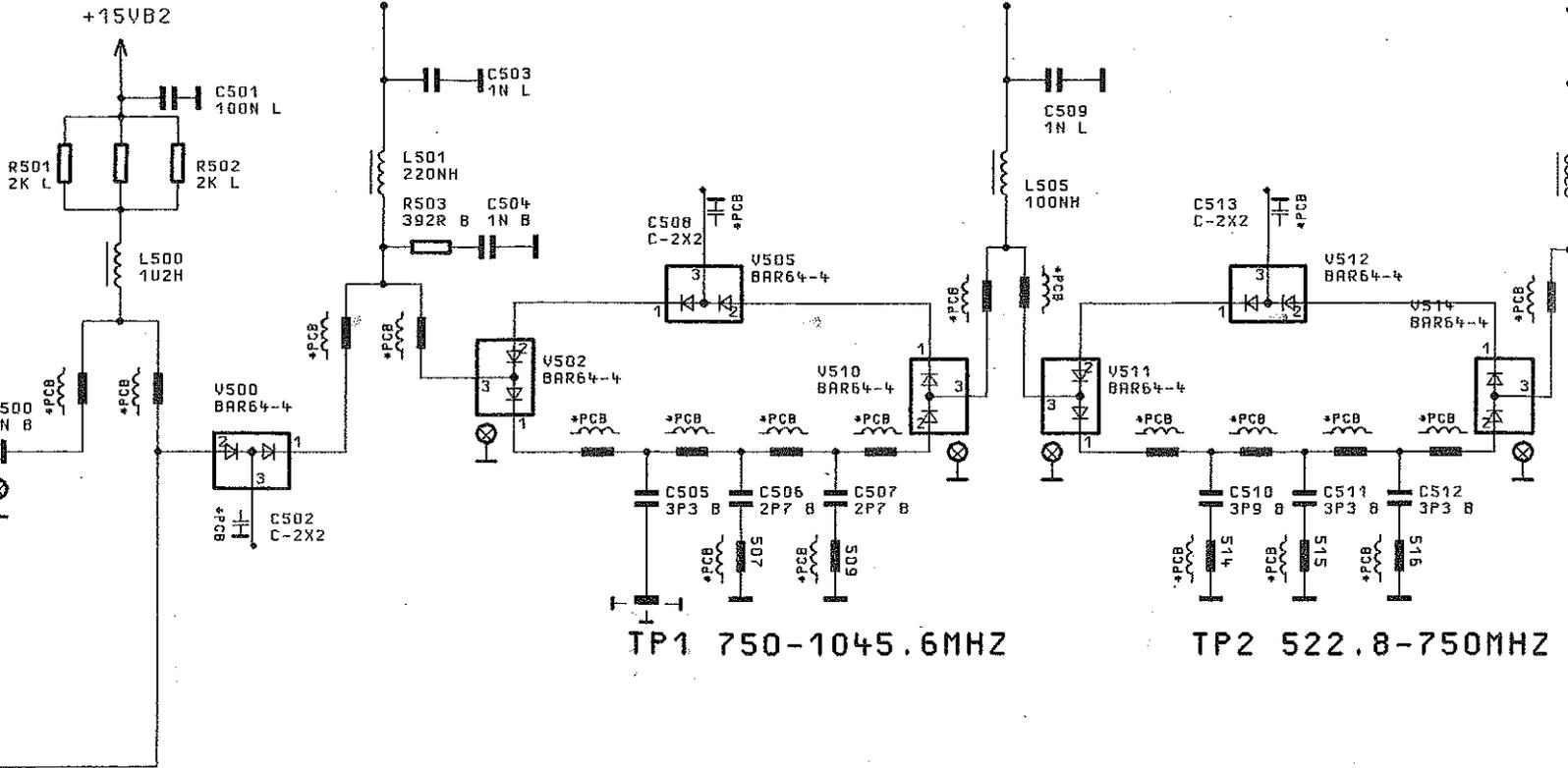
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| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG |
| | | | | | BEARB. |
| | | | | | GEPR. |
| | | | | | NORM |
| | | | | | PLOTT 04.05.93 |
| 02/06 | 48731/37 | 30.03.93 | BU | | |
| REND. IND. | ÄNDERUNGS- MITTEILUNG | DATUM | NAMEN | | |





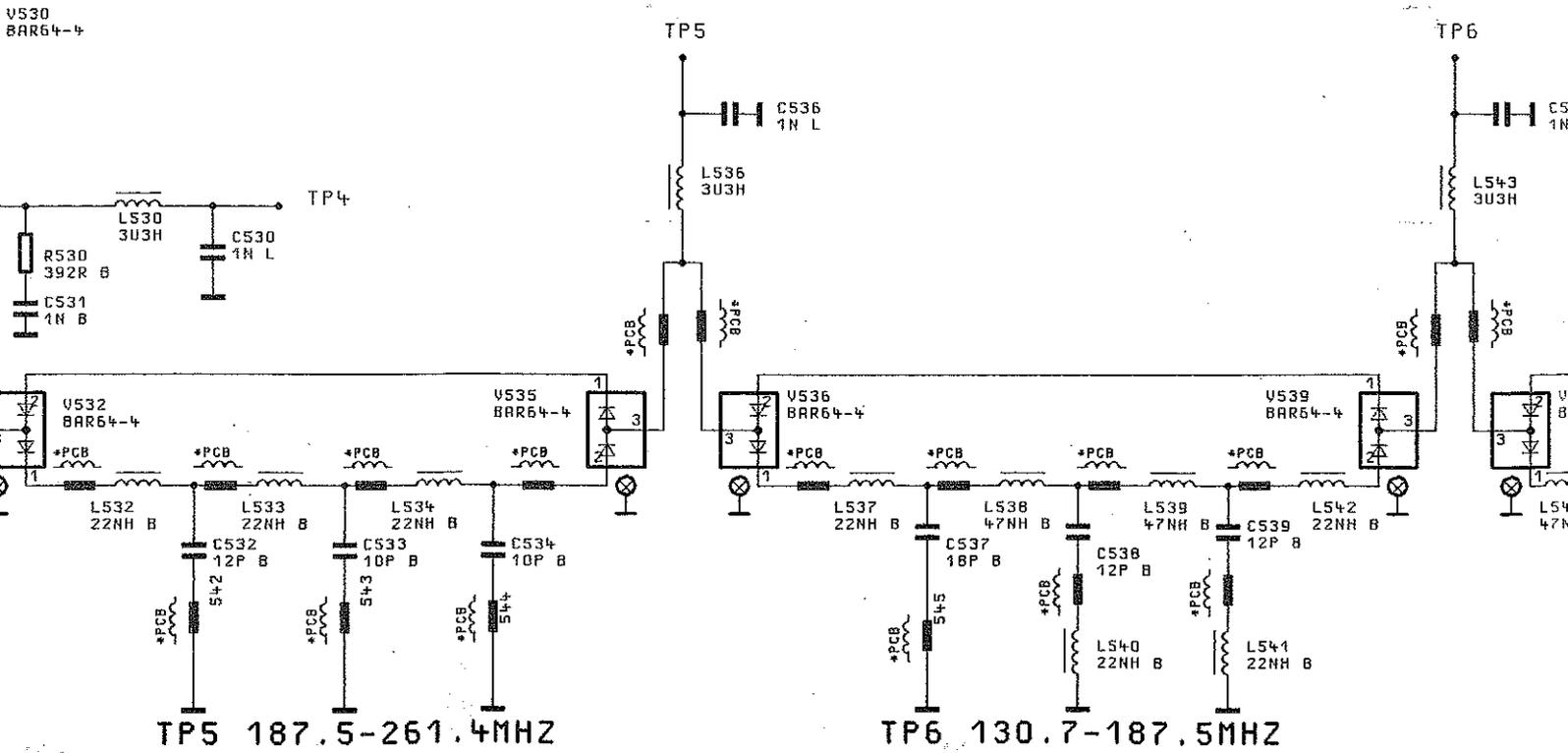
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SONIC FILTERS



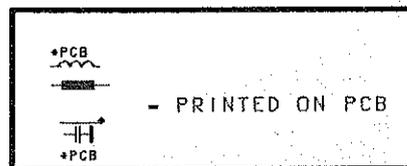
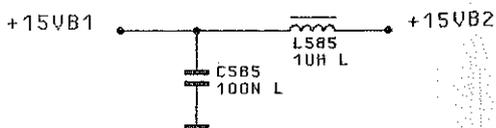
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TP2 522.8-750MHZ

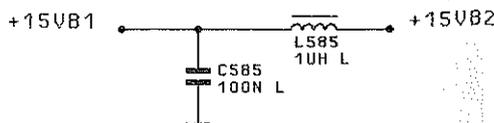
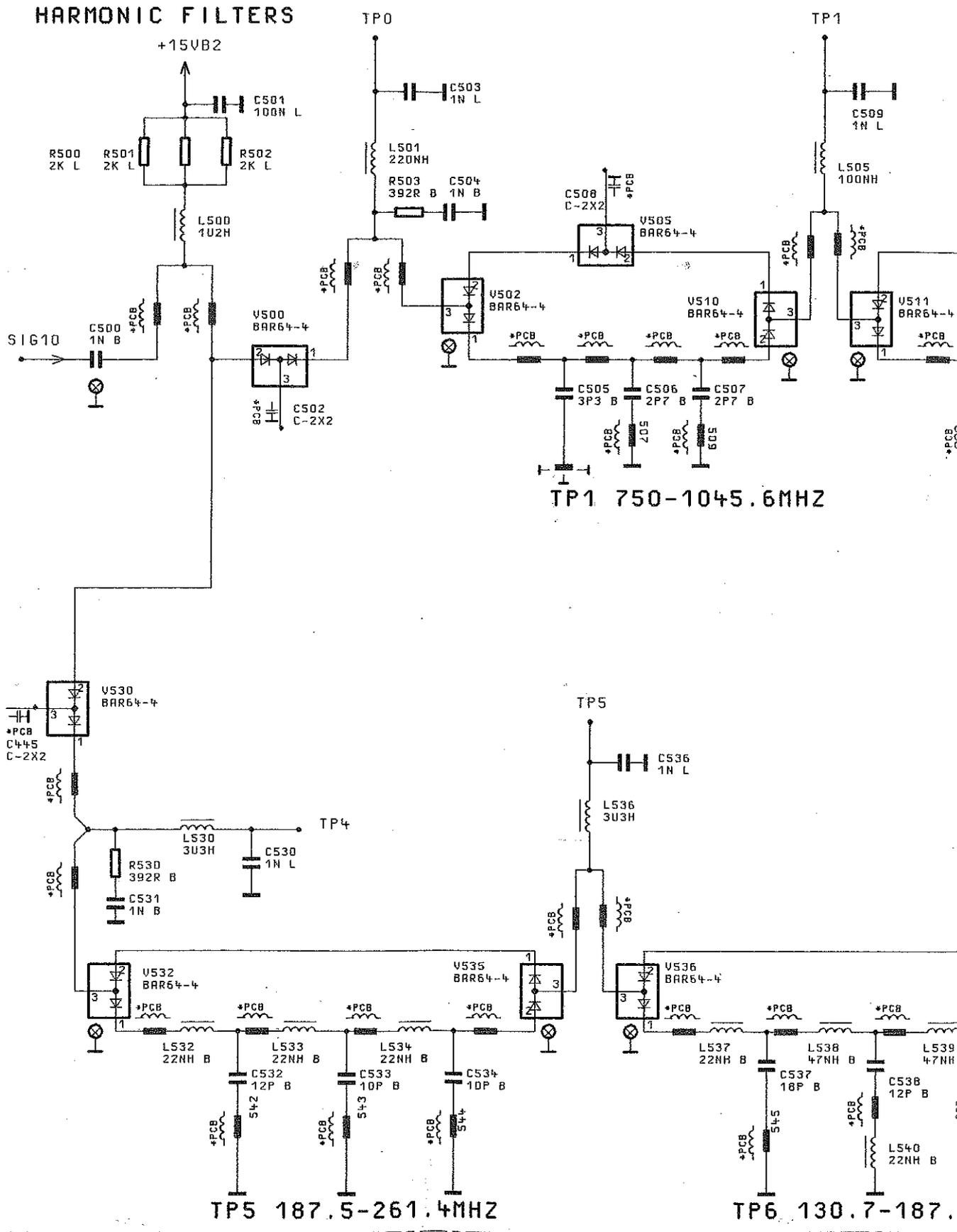


TP5 187.5-261.4MHZ

TP6 130.7-187.5MHZ



HARMONIC FILTERS



+PCB

- PRINTED ON PCB

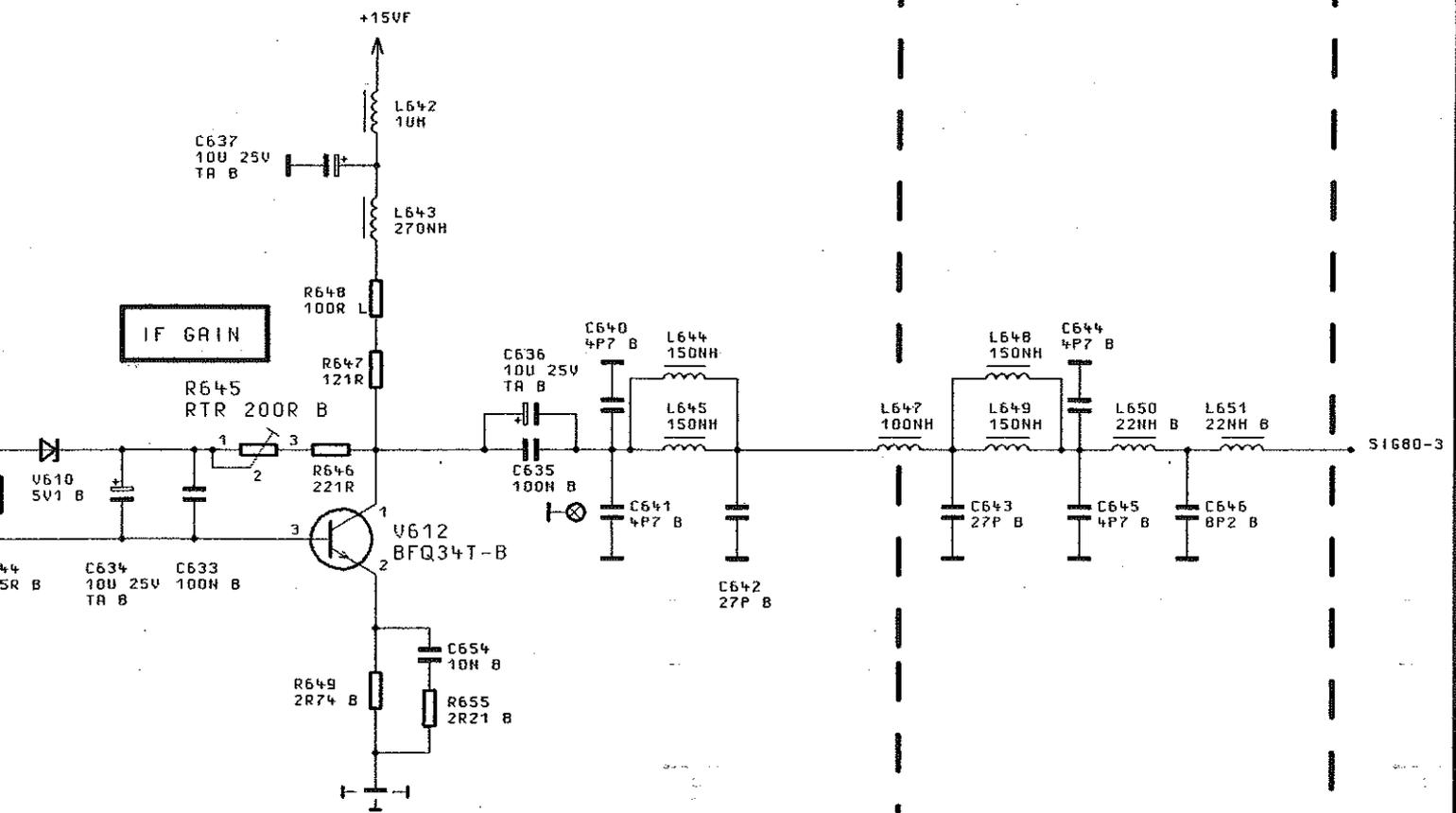
+PCB

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHNUNG

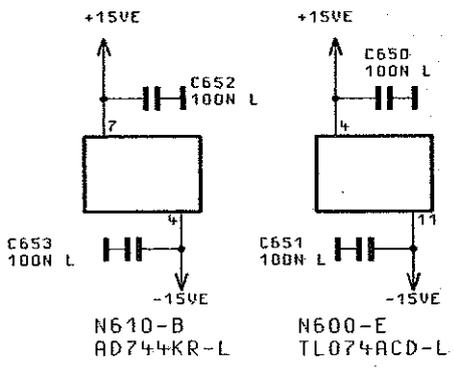
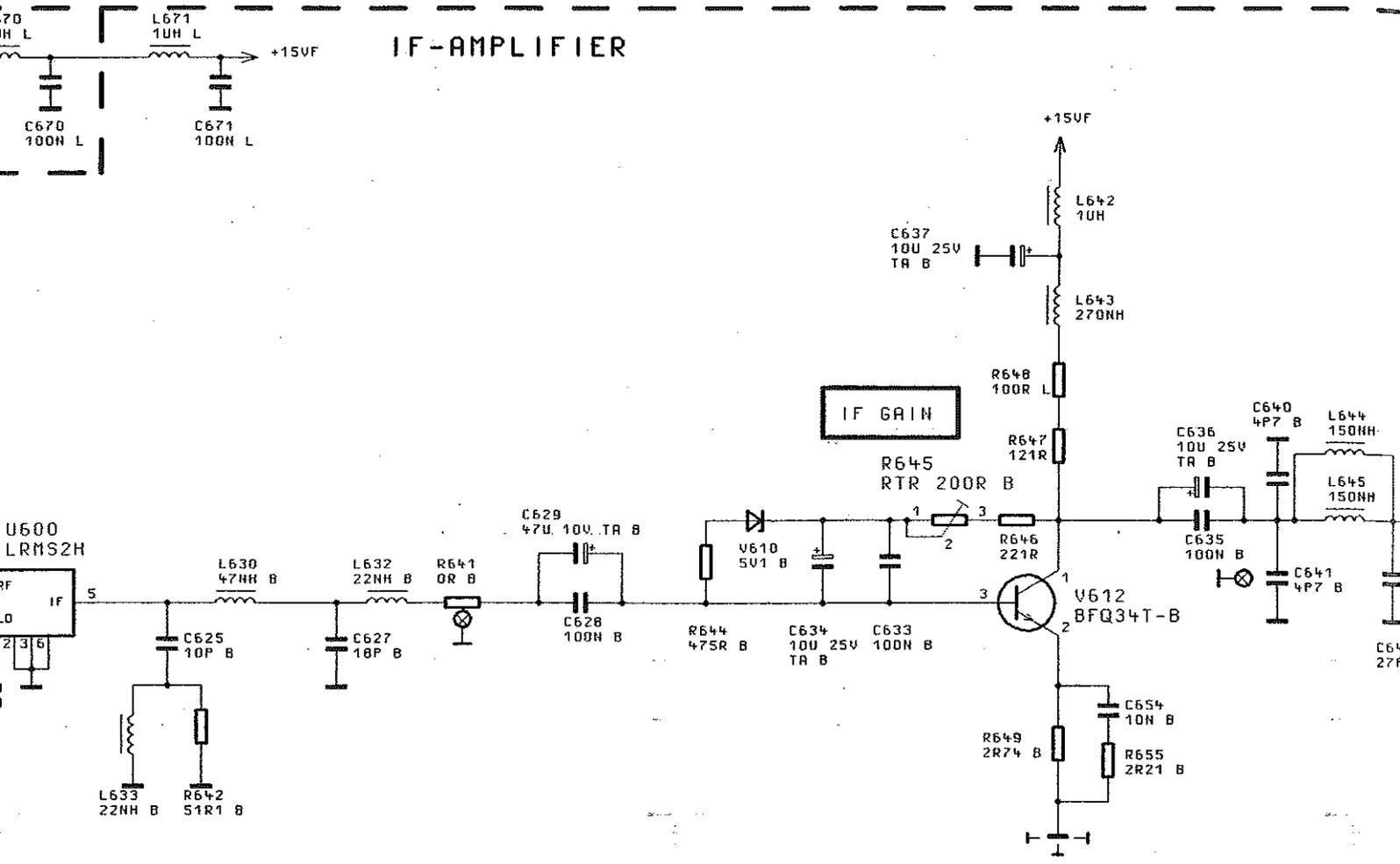
R645

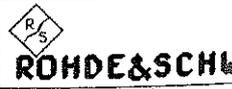
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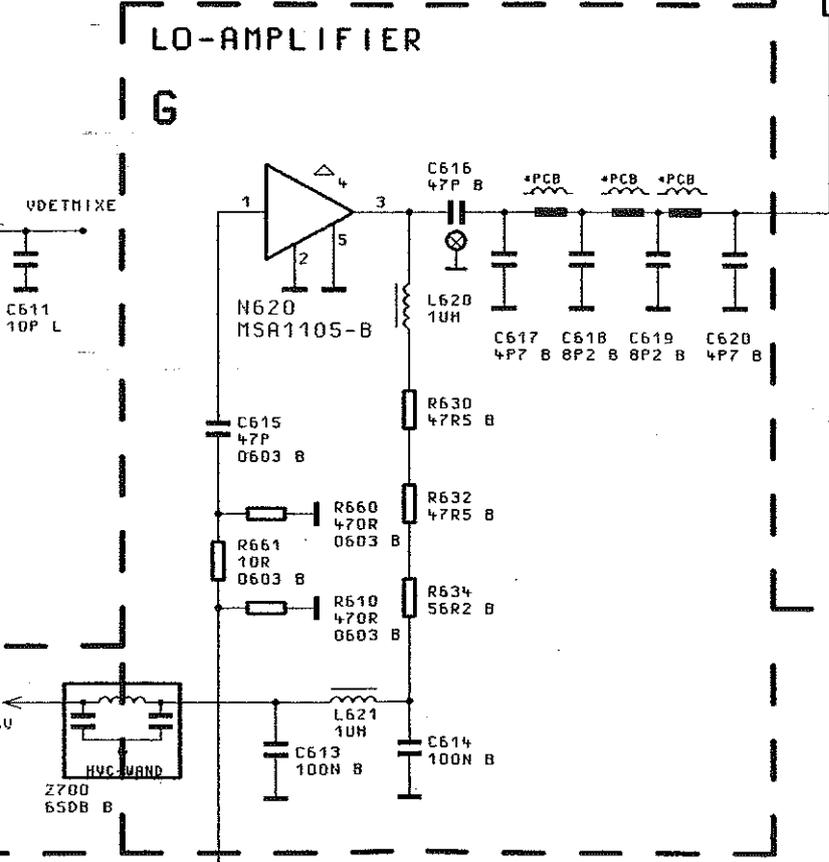
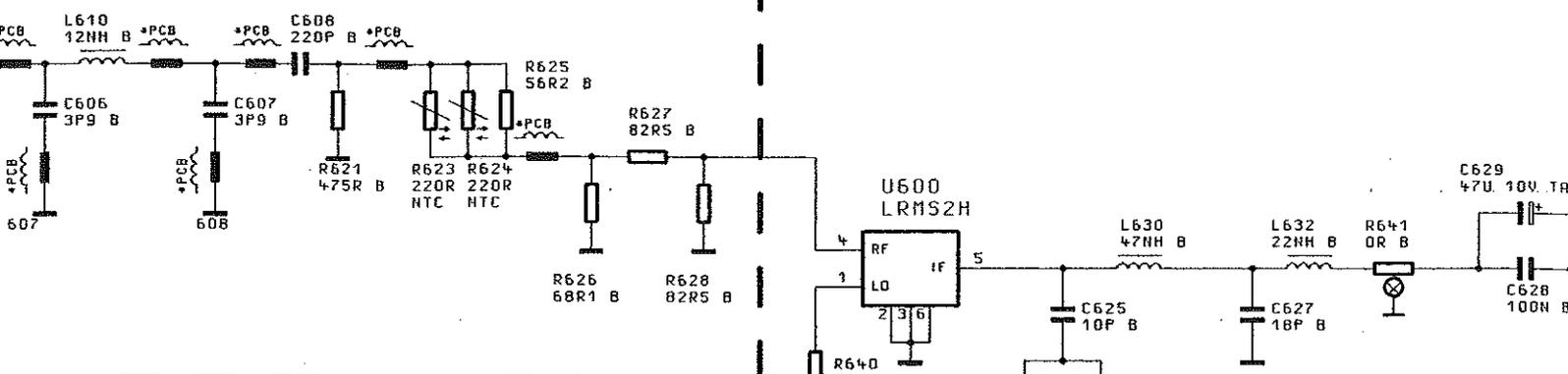
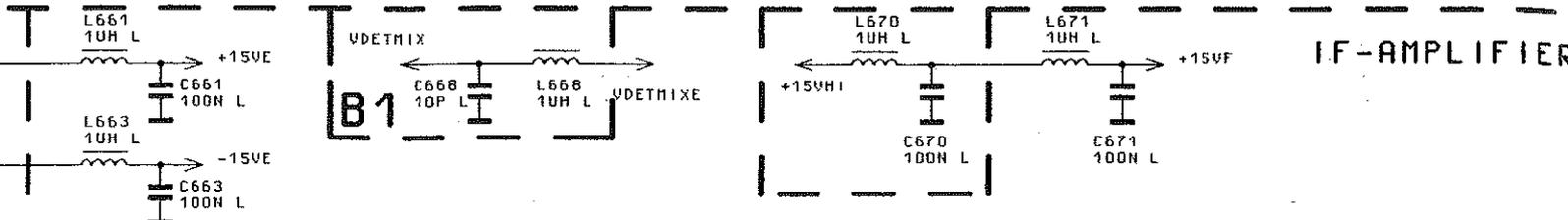
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| 03/02 | | 09.03.94 | DR | 1GPK | TRG | NAME | BENENNUNG | | | |
| | | | | BEARB. | | DR | AUSGANGSTEIL 1.56GHZ OUTPUT UNIT 1.56GHZ | | | |
| | | | | GEPR. | | | | | | |
| | | | | NORM | | | | | | |
| | | | | PLOTT | 02.08.95 | | | | | |
| | | | | ROHDE & SCHWARZ | | | ZEICHN.-NR. | | | |
| | | | | | | | 1038.7780.015 | | BLATT-NR. | |
| REND. IND. | RENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GEHÖRT SME | | | REG. I. V. | 1038.6002 | ERSTE Z. | 1038.6048 |
| | | | | | | | | | 7+ | |

R645



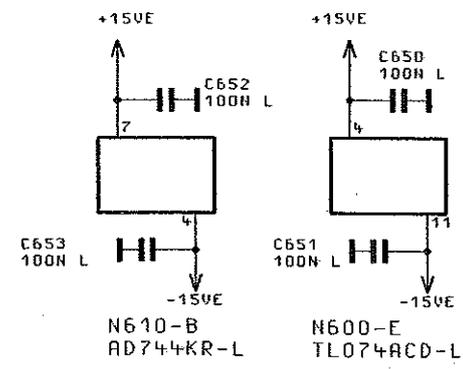
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| 03/02 | 09.03.94 | DR | 1GPK | TAG | |
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| | | | GEPR. | | |
| | | | NDRH | | |
| | | | PLOTT | 02.08.95 | |
| | | | | | |
| | | | | | |
| REND. IND. | BERENDUNGS-NITTEILUNG | DATUM | NAME |  ZU GEPAET SME | |

B
D P621



X105 1

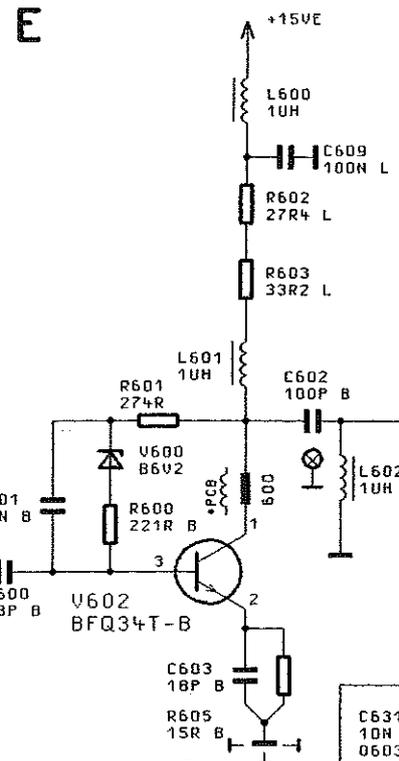
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600MHZ
9...11DBM



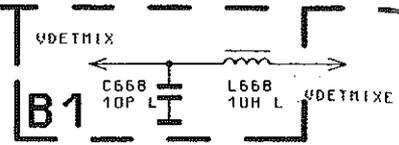
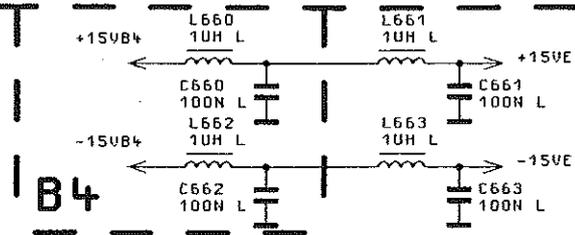
P600
P601

P628
P620 P621

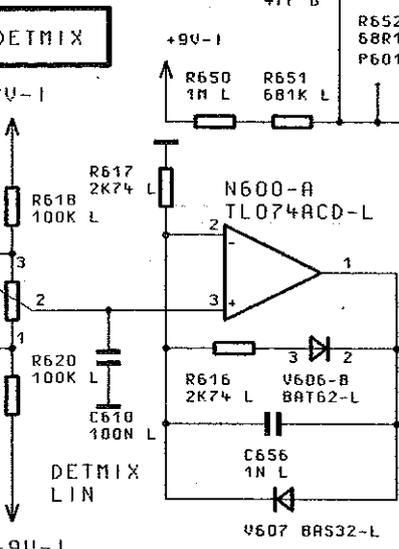
RF-AMPLIFIER 4 E



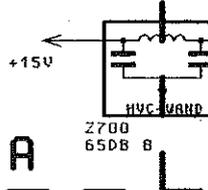
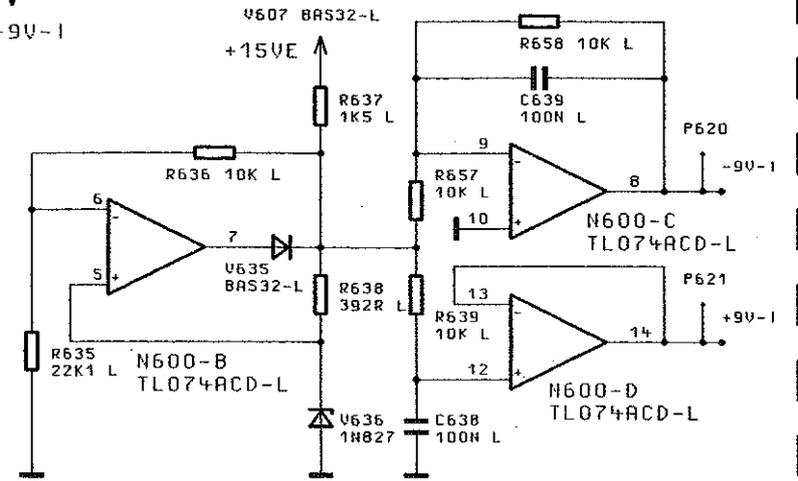
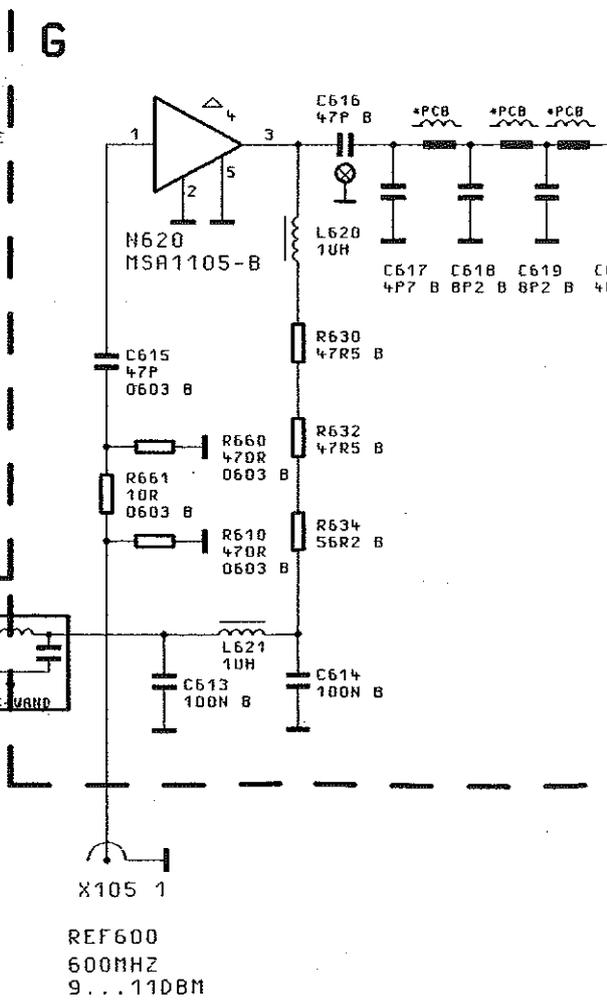
RF-LOWPASS



DECTOR LINEARIZER



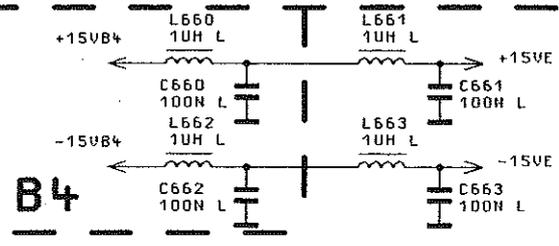
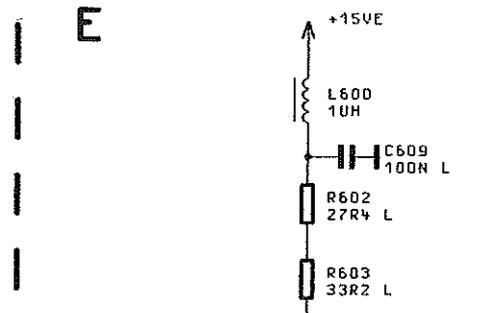
LO-AMPLIFIER



REF600
600MHZ
9...110DBM

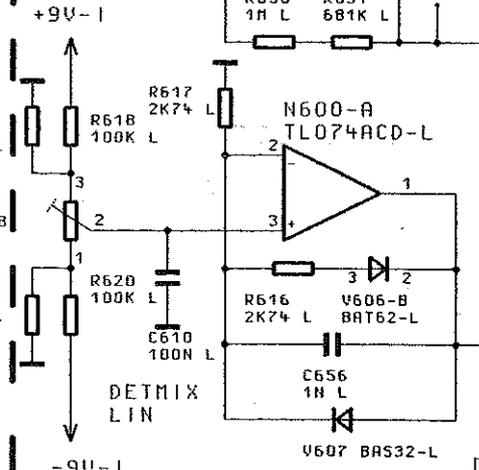
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RF-AMPLIFIER 4

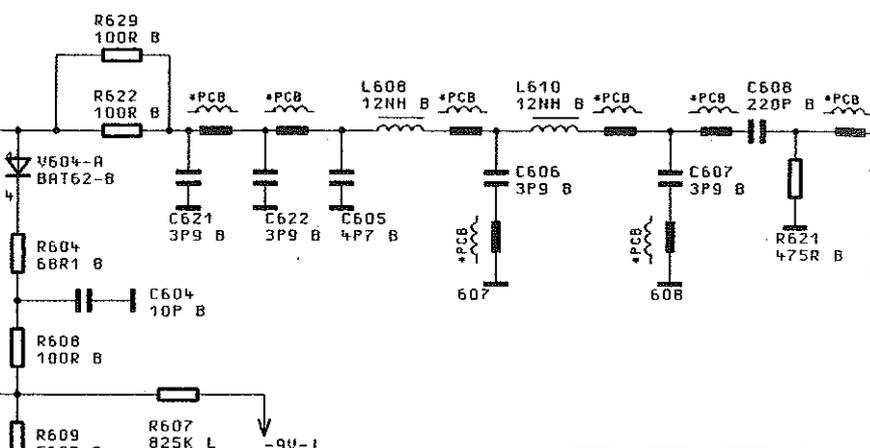


DETECTOR LINEARIZER

DETMIX

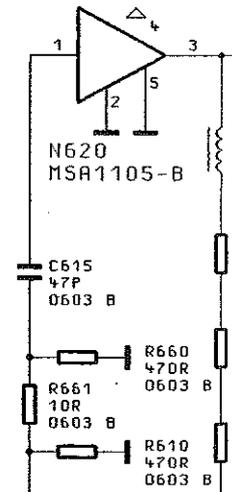


RF-LOWPASS

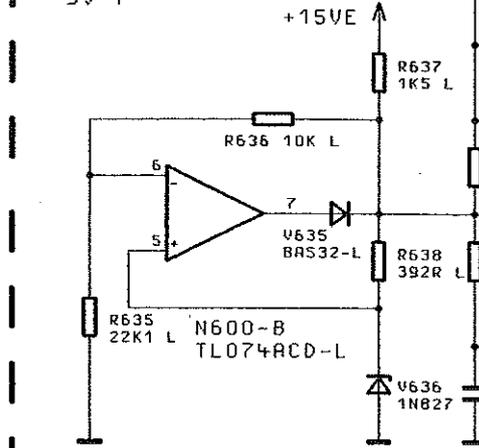
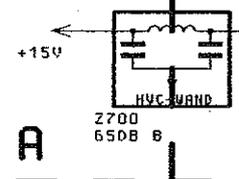


LO-AMPLIFIER

G



A



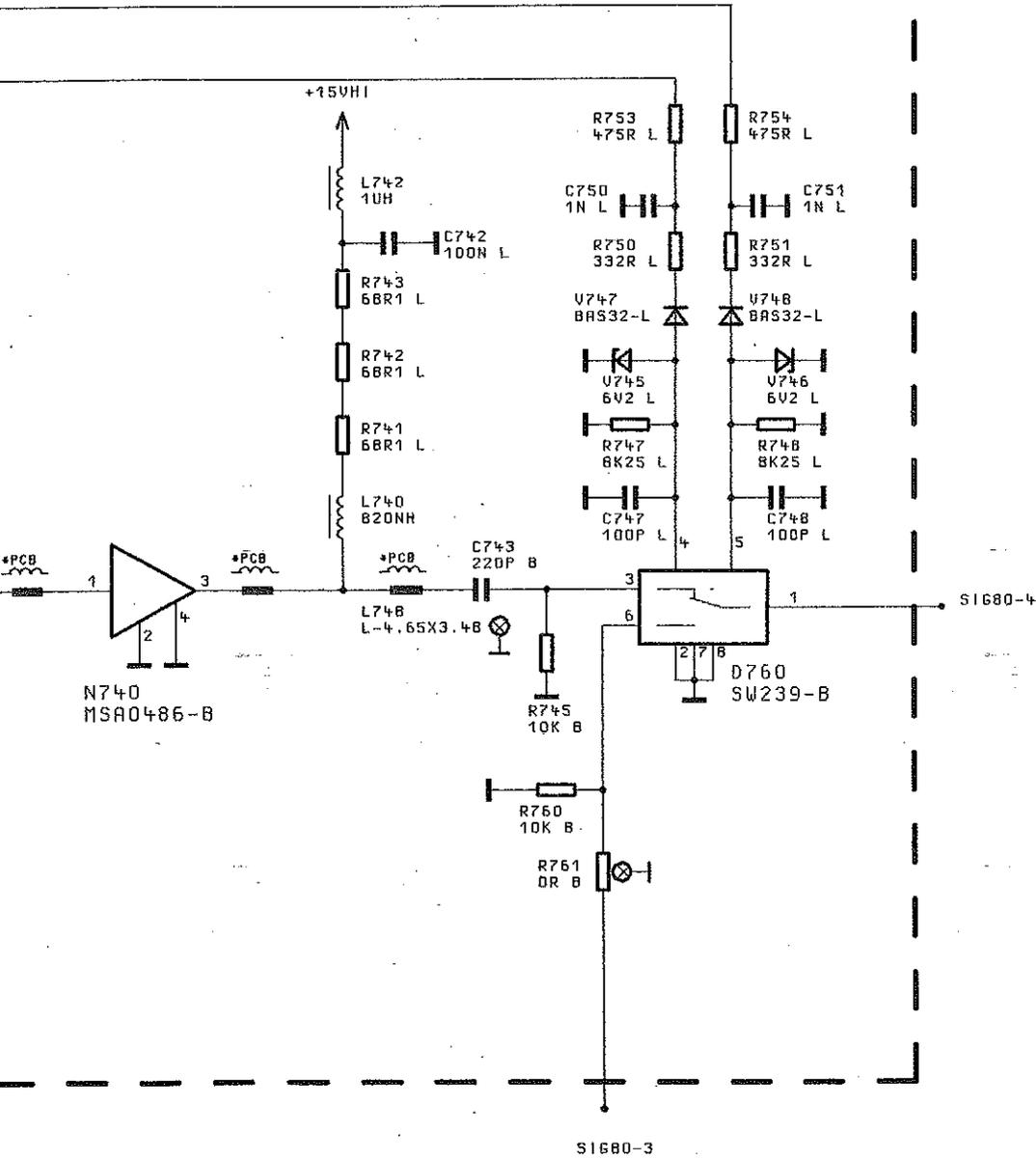
REF600
600MHZ
9...11DBM

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN. -NP

AMPLIFIER 5

H



02

| | | | | | | | | | |
|------------|----------------------|----------|-------|---|----------|---------------|---|-----------|-----------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NAME | BENENNUNG | | |
| | | | | BEARB. | | DR | AUSGANGSTEIL 1.5GHZ OUTPUT UNIT 1.5GHZ | | |
| | | | | GEPR. | | DR | | | |
| | | | | NORN | | | | | |
| | | | | PLOTT | 04.05.93 | | | | |
| 02/06 | 48731/37 | 30.03.93 | BU |  ROHDE & SCHWARZ | | ZEICHN.-NR. | | BLATT-NR. | |
| REND. IND. | ÄNDERUNGS-MITTEILUNG | DATUM | NAMEN | | | 1038.7780.015 | | 8+ | |
| | | | | ZU SERRET | SME | REG. I. V. | 1038.6002 | ERSTE Z. | 1038.6048 |

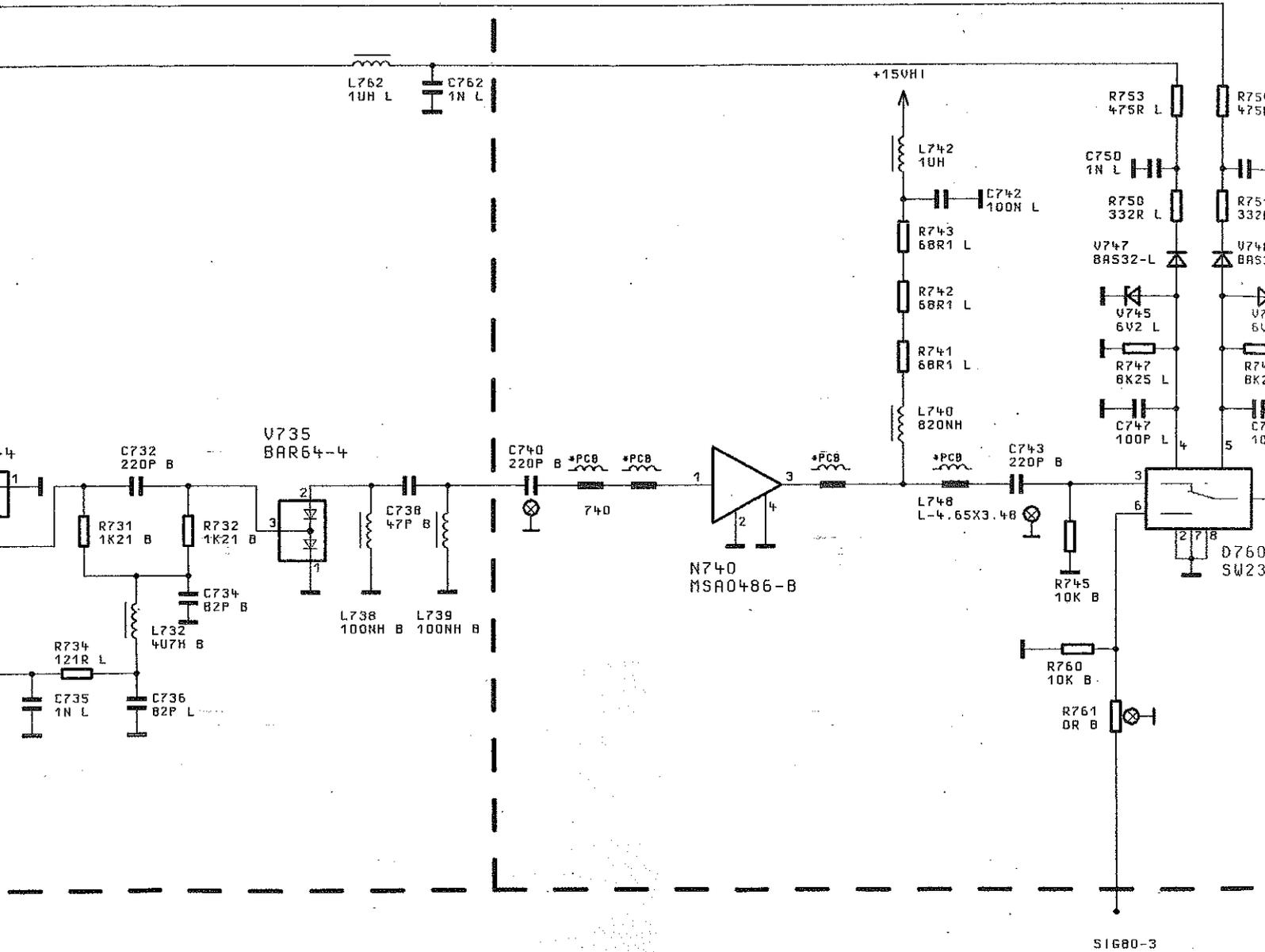
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10

11

12

RF AMPLIFIER 5



STROMLAUF GILT FUER VAR.02

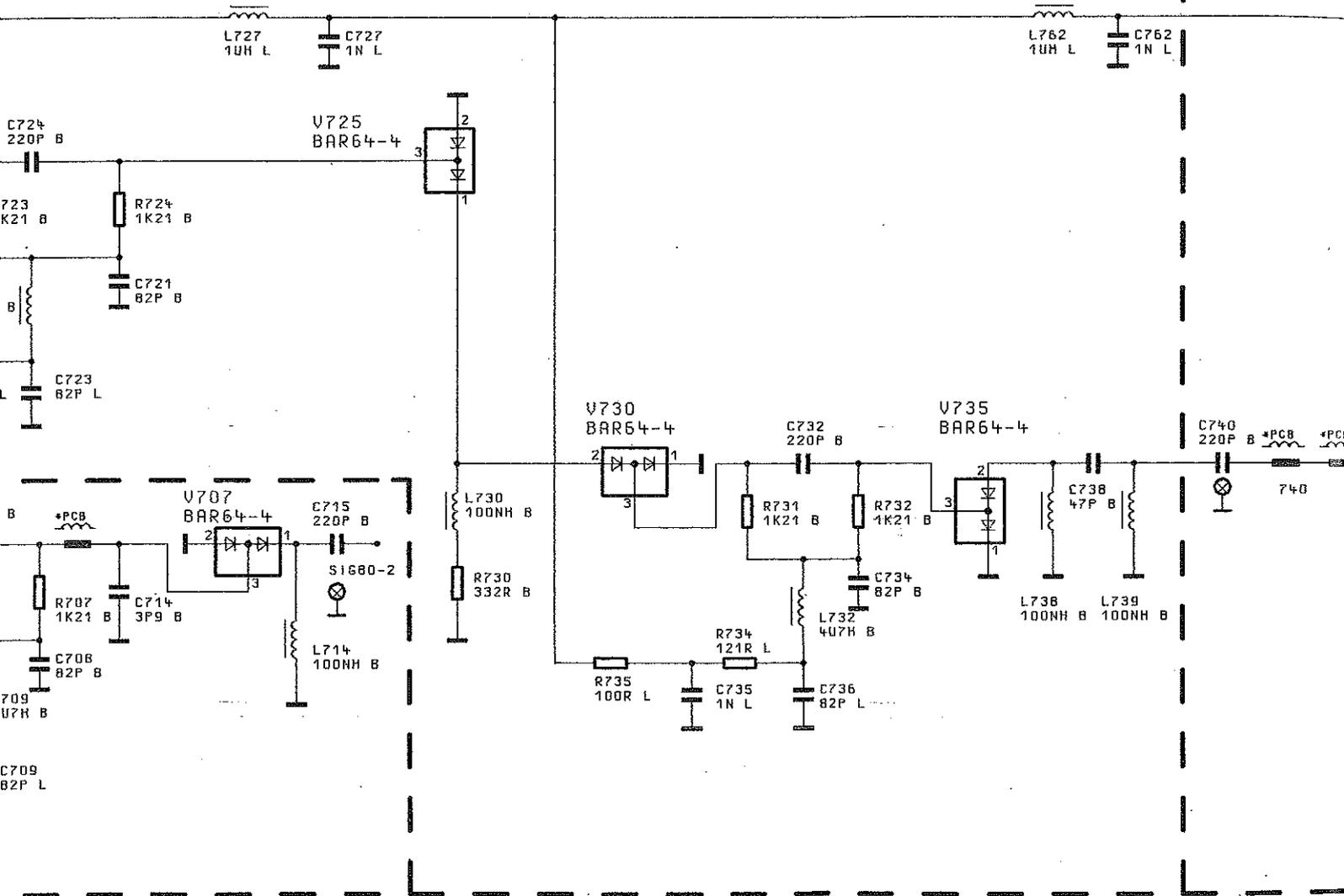
CIRCUIT DIAGRAM IS VALID FOR MOD.02



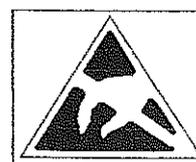
ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUELEMENTE ERFORDERN EINE
 BESONDERE HANDHABUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

| | | | | | | |
|---------------|---------------------------|----------|------|--|----------|------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NAME |
| | | | | BEARB. | | DR |
| | | | | GEPR. | | DR |
| | | | | NORN | | |
| | | | | PLOTT | 04.05.93 | |
| 02/06 | 48731/37 | 30.03.93 | BU | | | |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAME |  ROHDE & SCHWARZ ZU BERRET SME | | |
| | | | | | | |

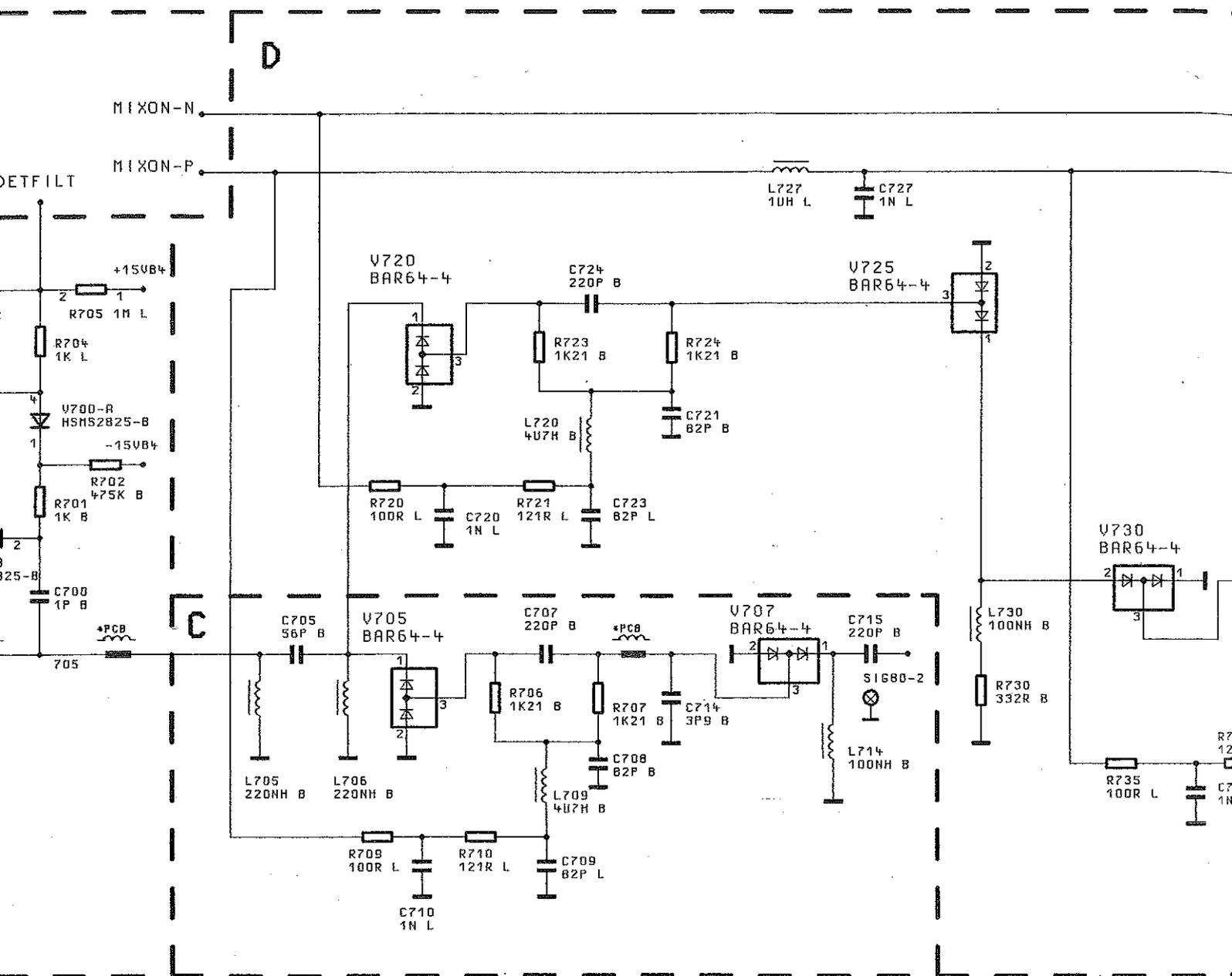
RF AMPL

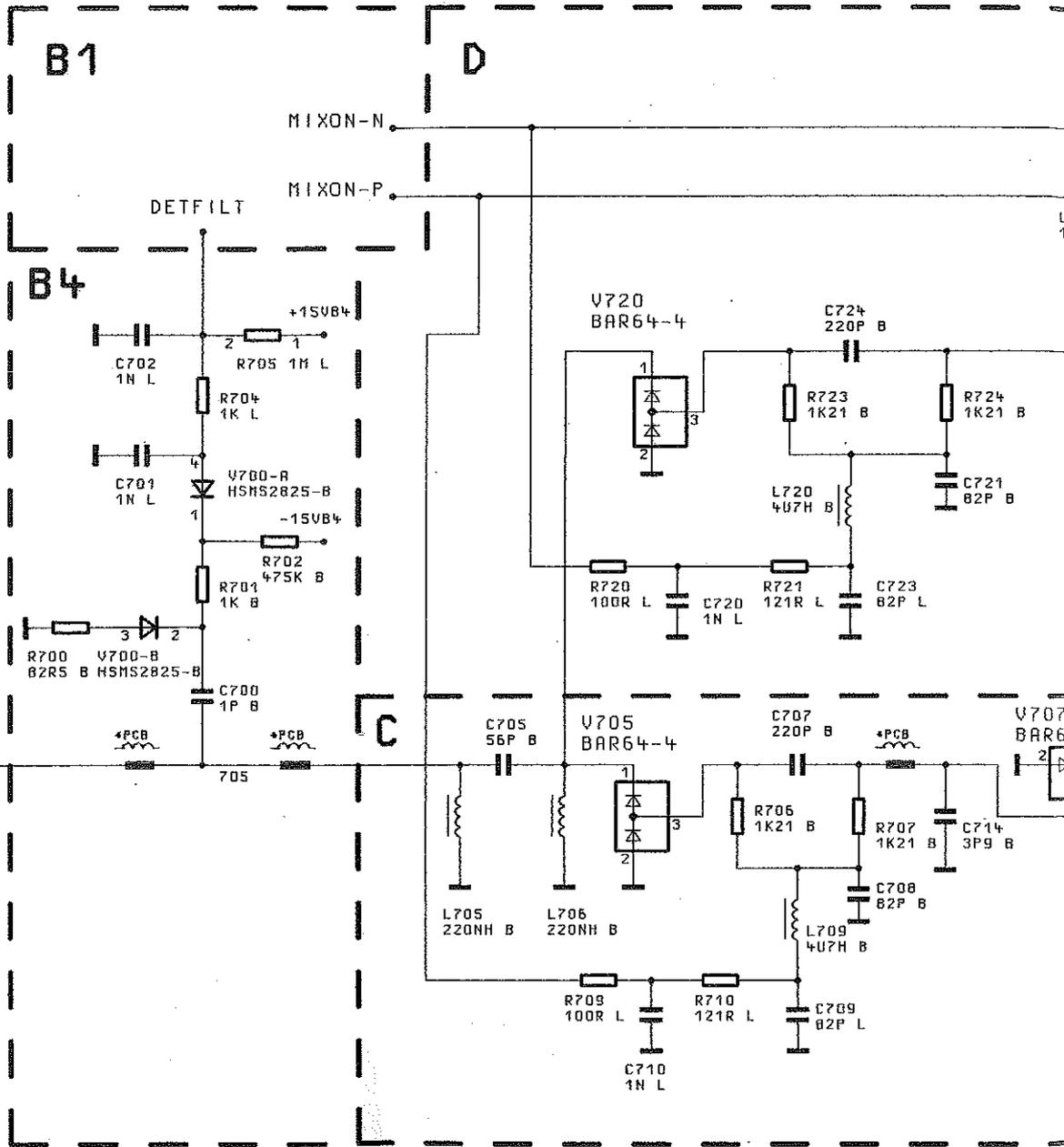


STROMLAUF GILT FUER VAR. 0
CIRCUIT DIAGRAM IS VALID FOR MOD. 02



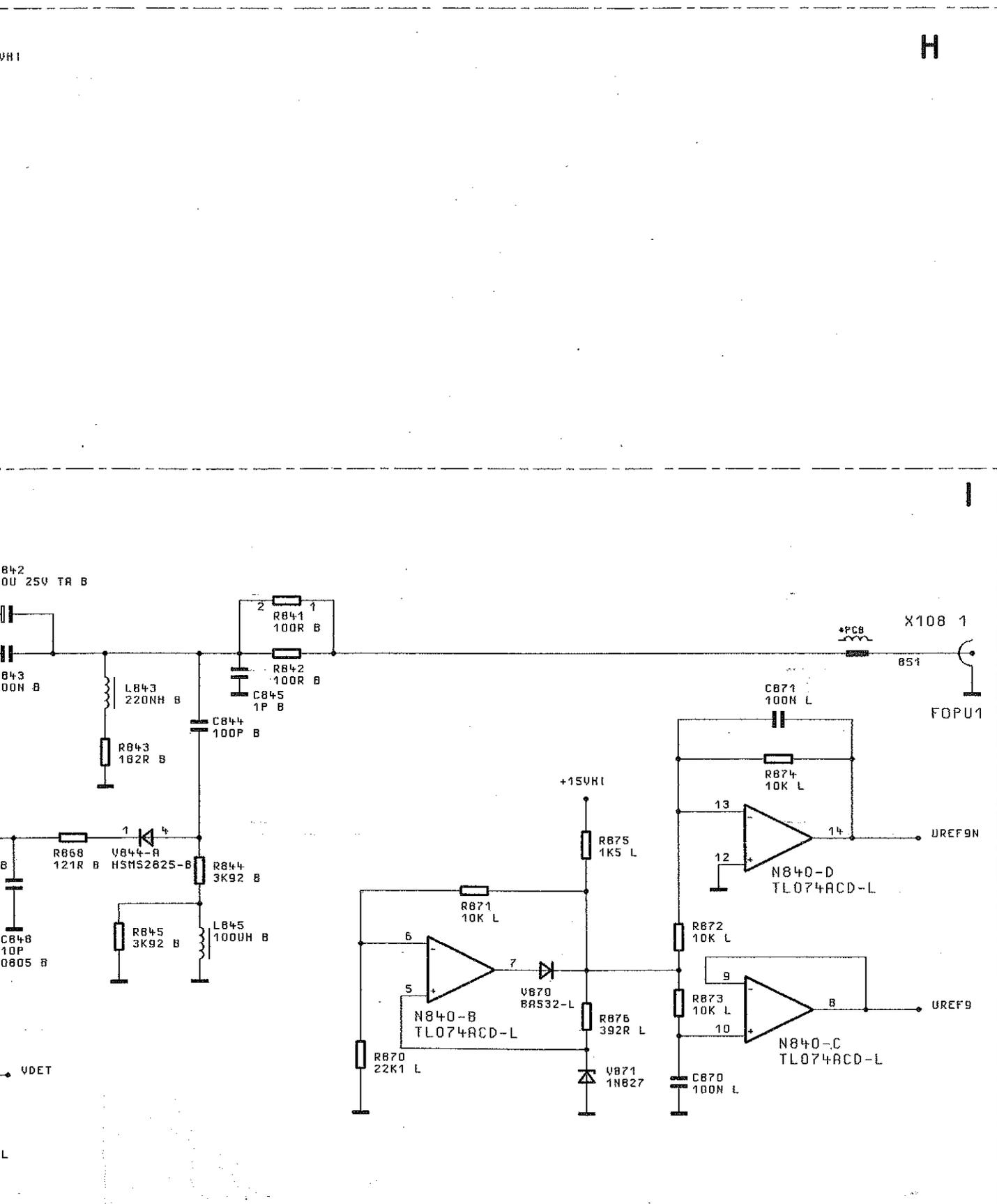
ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING.



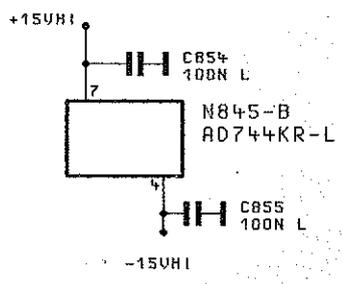
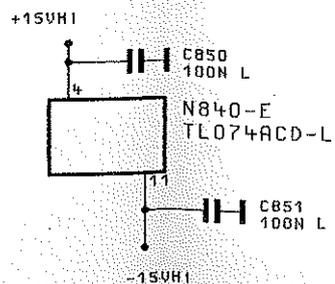
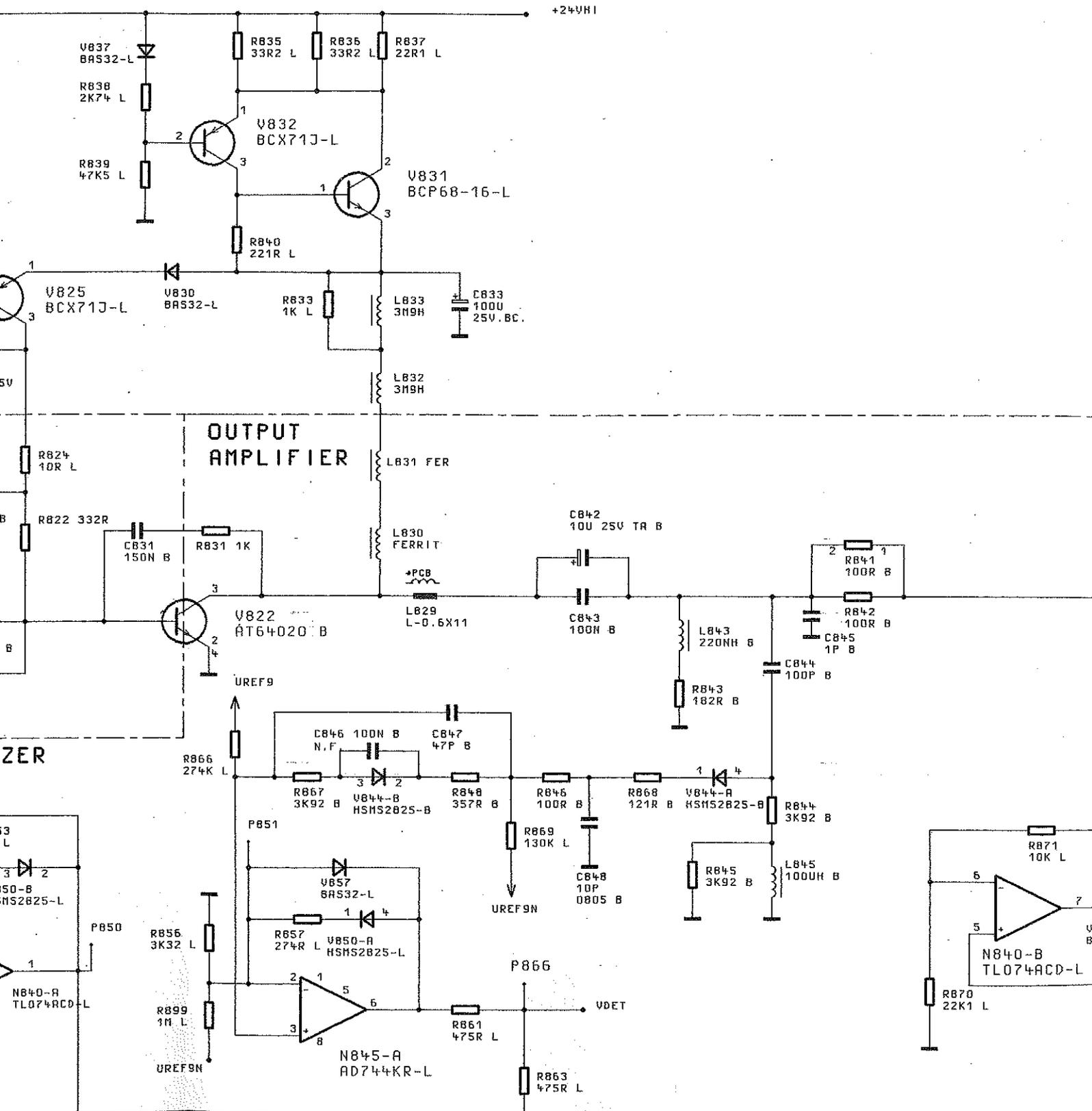


FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

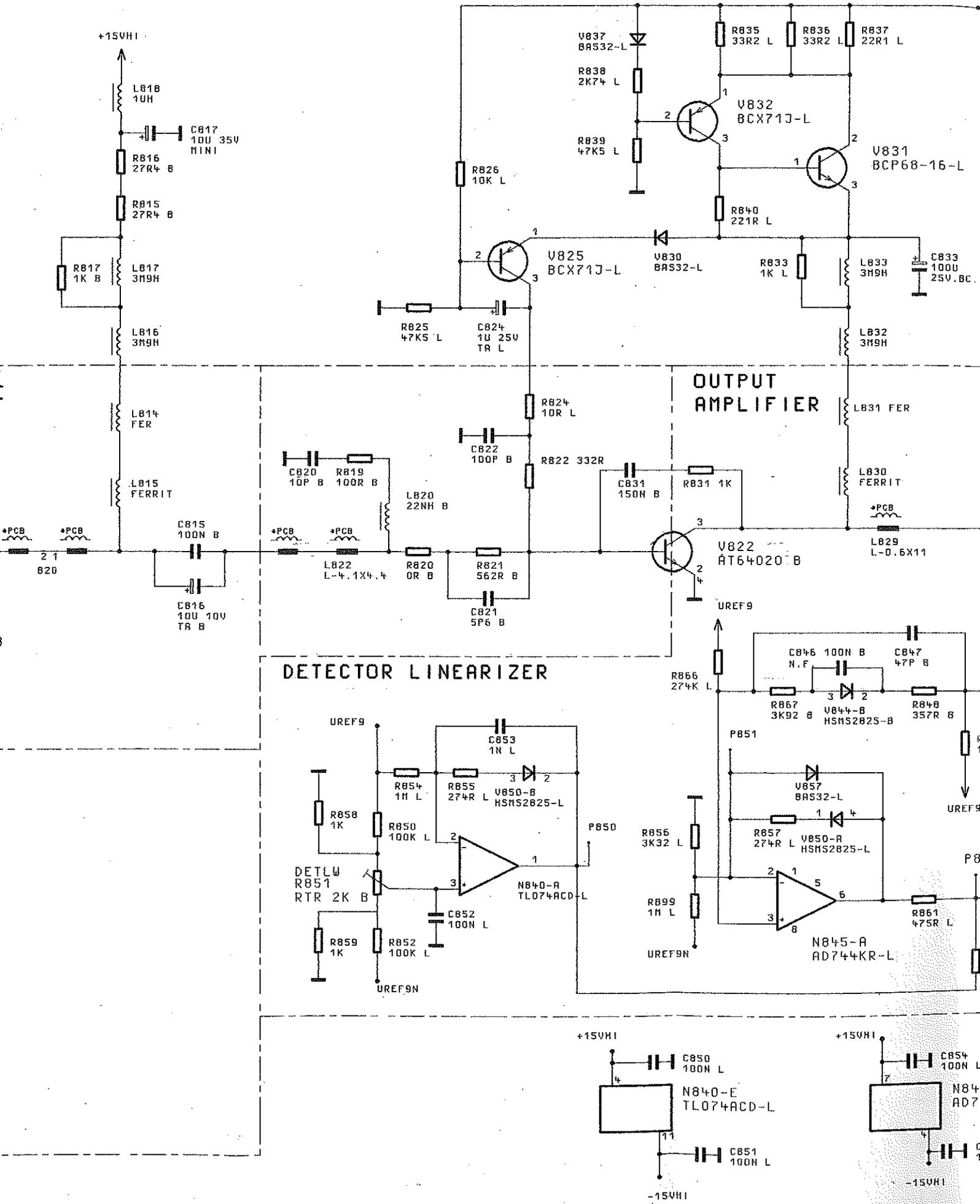
ZEICHN. - NR.



| | | | | | | | | |
|---------------|---------------------------|----------|------|---|---------------|-----------|---|-----------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NAME | BENENNUNG | |
| | | | | BEARB. | | DR | AUSGANGSTEIL 1.56GHZ OUTPUT UNIT 1.56GHZ | |
| | | | | GEPR. | | DR | | |
| | | | | NORN | | | | |
| | | | | PLOTT | 04.05.93 | | | |
| 02/06 | 48731/37 | 30.03.93 | BU |  ROHDE&SCHWARZ | ZEICHN.-NR. | | BLATT-NR. | |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAME | | 1038.7780.015 | | 9+ | |
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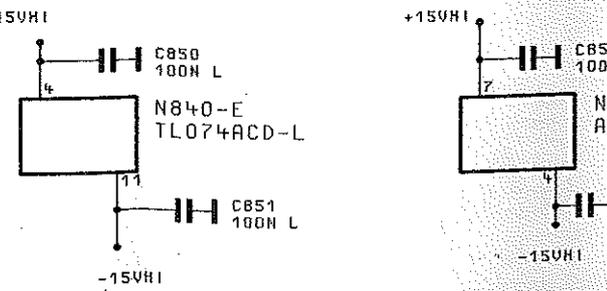
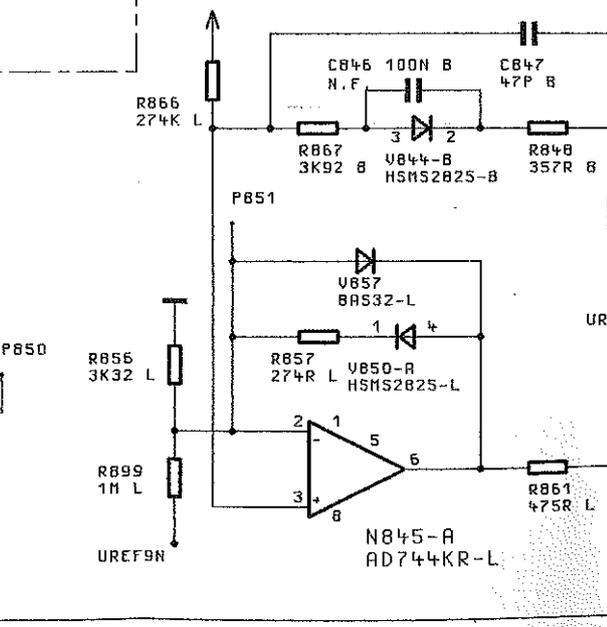
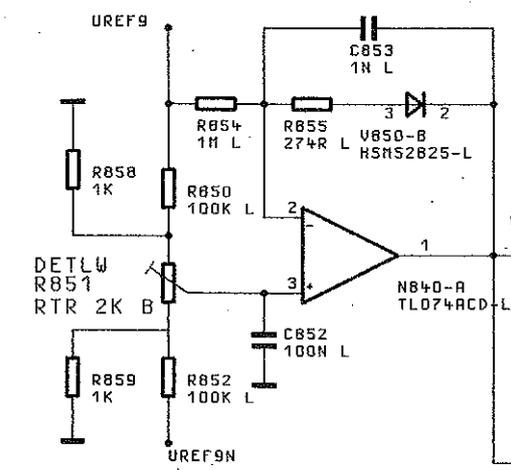


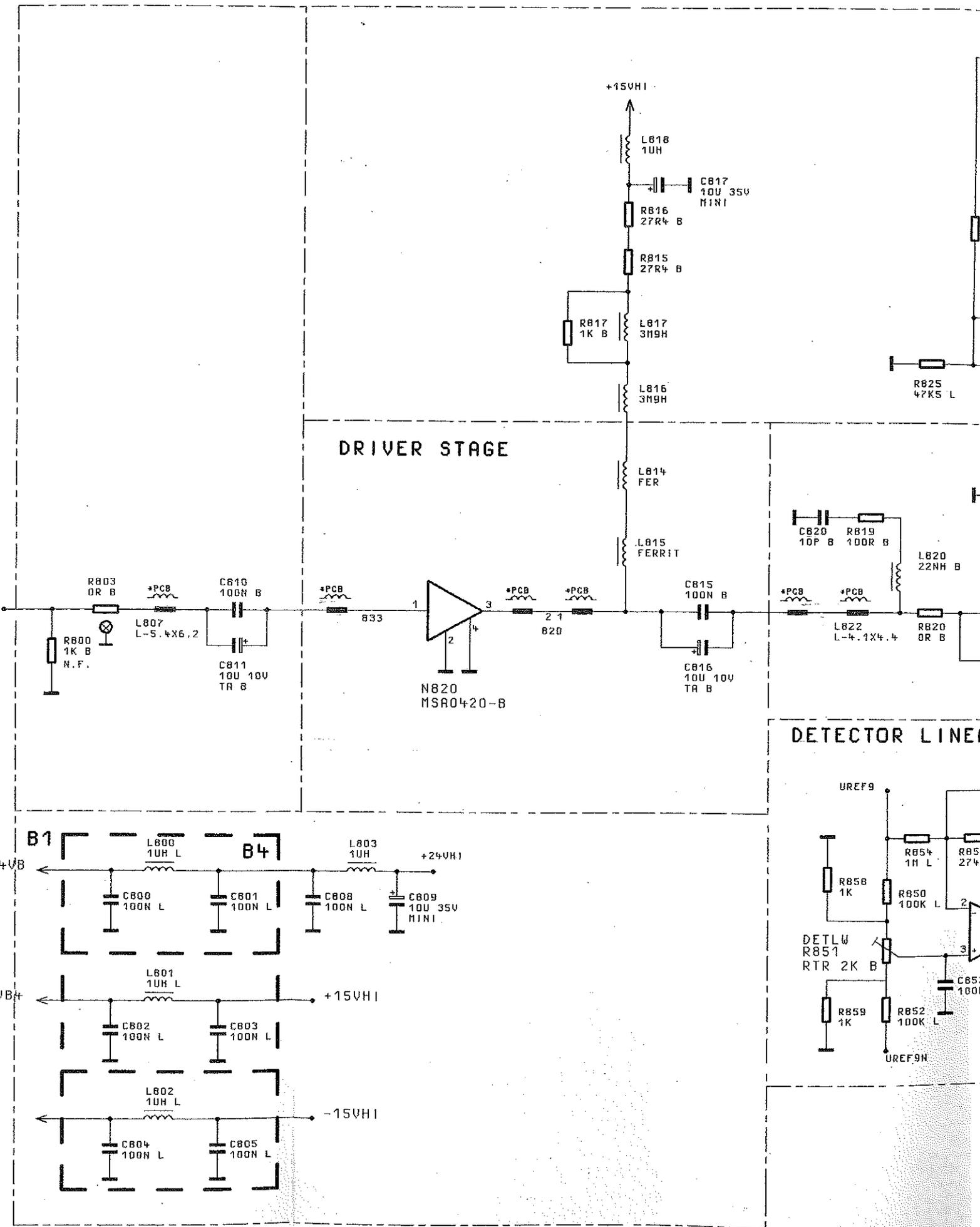
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| | | | | GEPR. | |
| | | | | NDRN | |
| | | | | PLOTT | 04.05.93 |
| 02/06 | 48731/37 | 30.03.93 | BU | | |
| REND. IND. | ÄNDERUNGS-MITTEILUNG | DATUM | NAME | | |
| | | | | ZU GERÄT | SME |

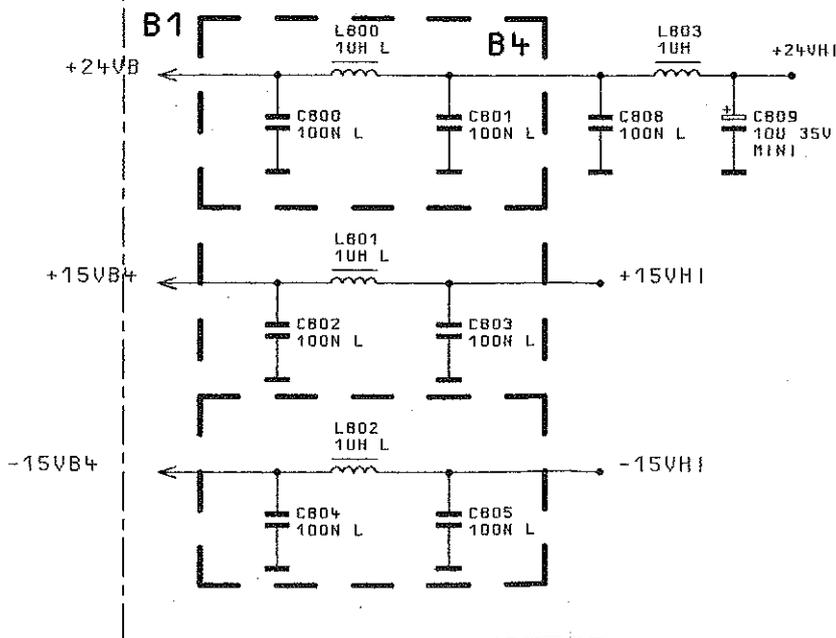
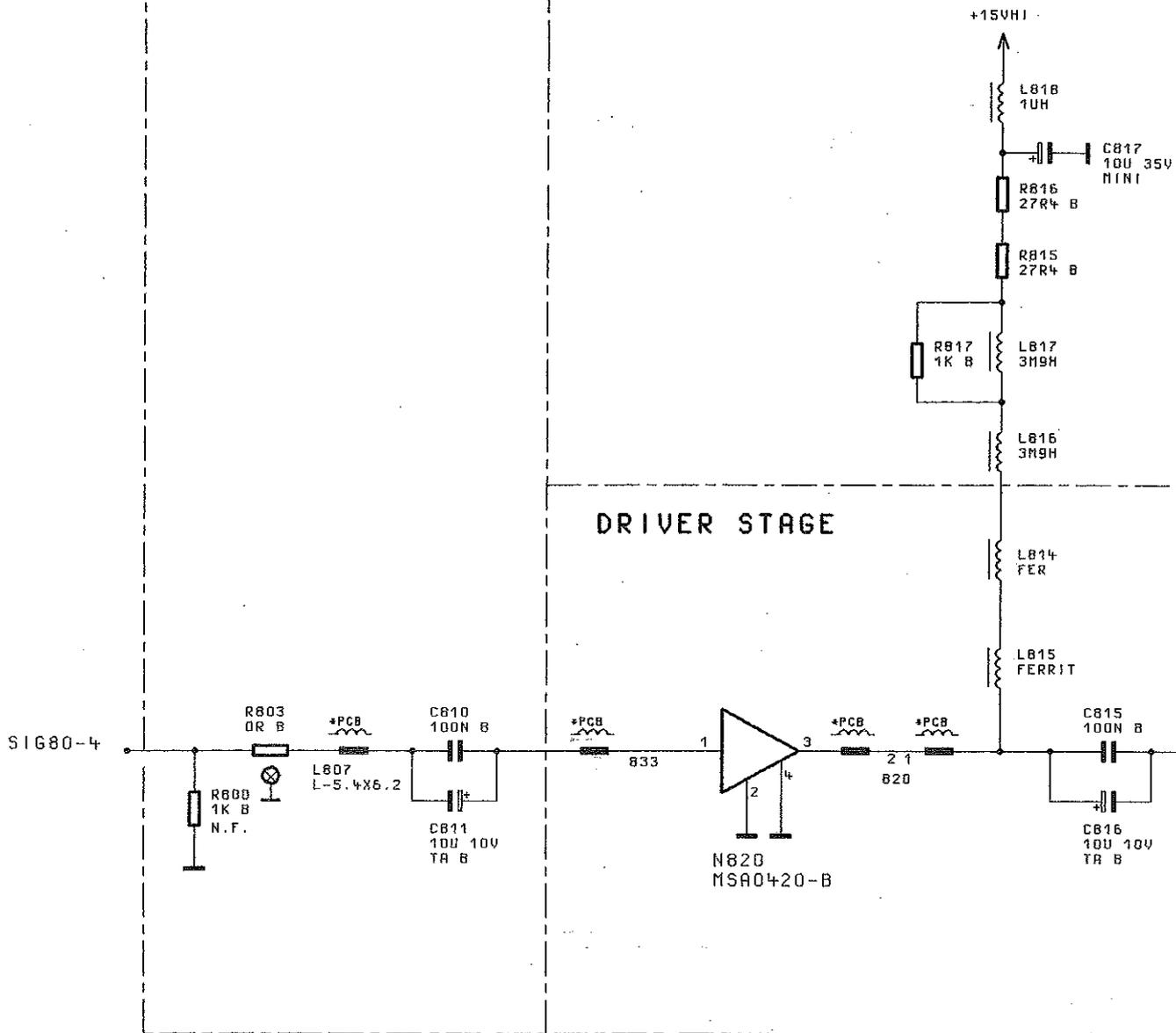


OUTPUT AMPLIFIER

DETECTOR LINEARIZER

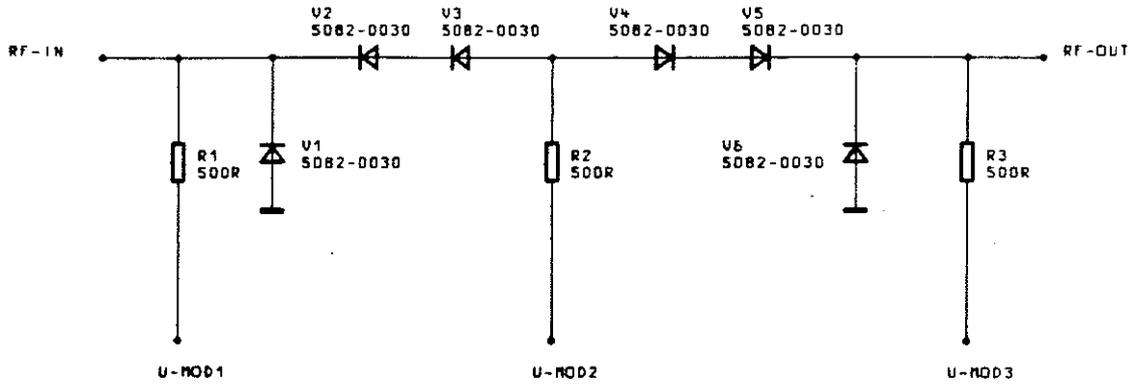






FÜR DIESE UNTERLAGE
BEHALTEN SICH UNS ALLE RECHTE VOR

ZEICHN.-NR.



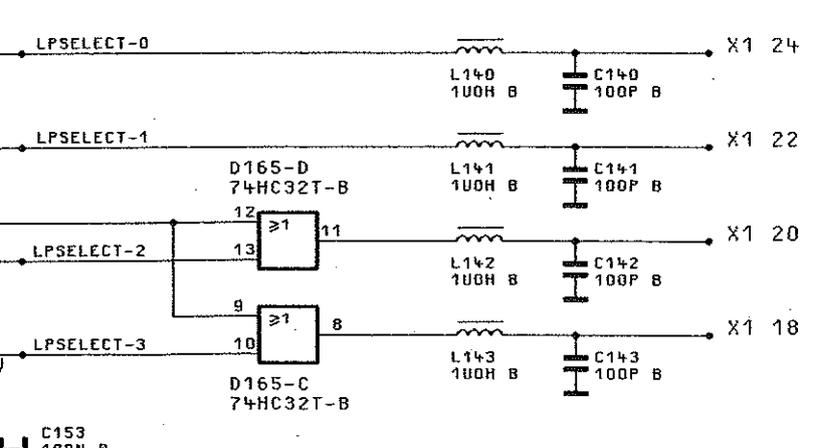
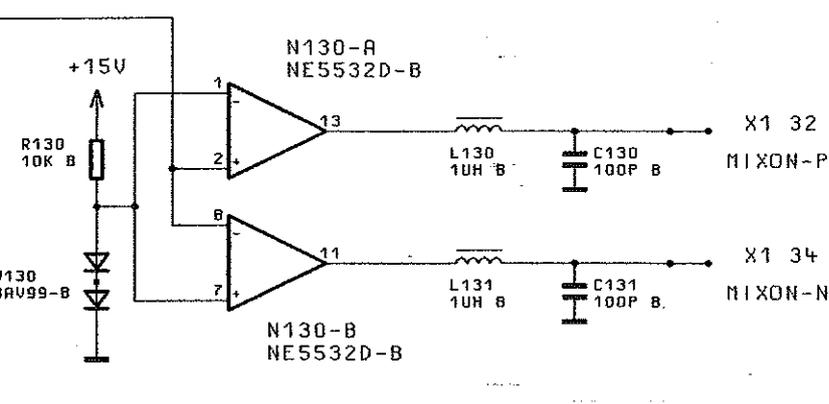
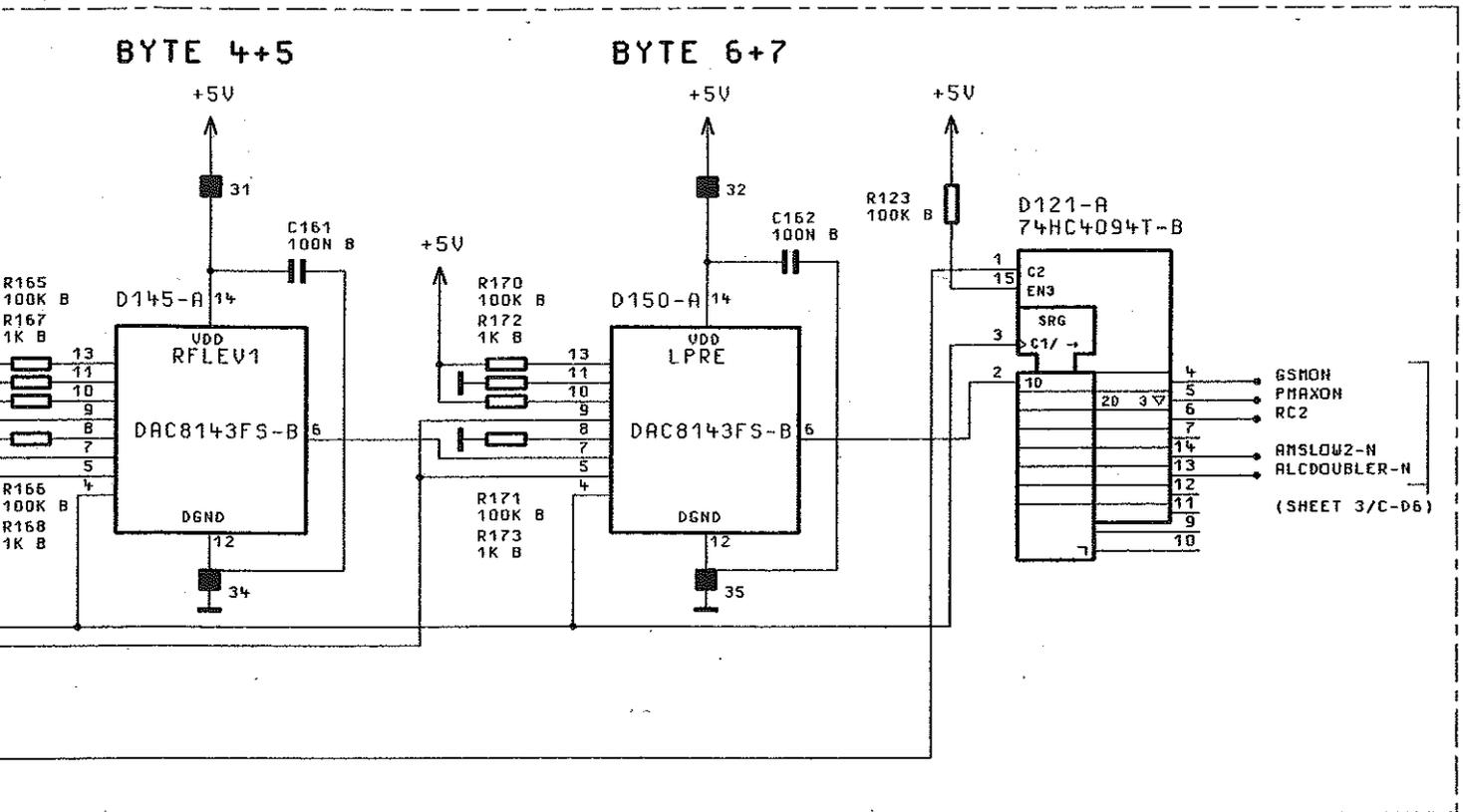
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BEHALTEN WIR UNS ALLE RECHTE VOR



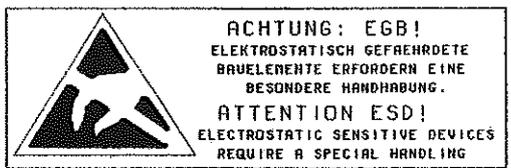
ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

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

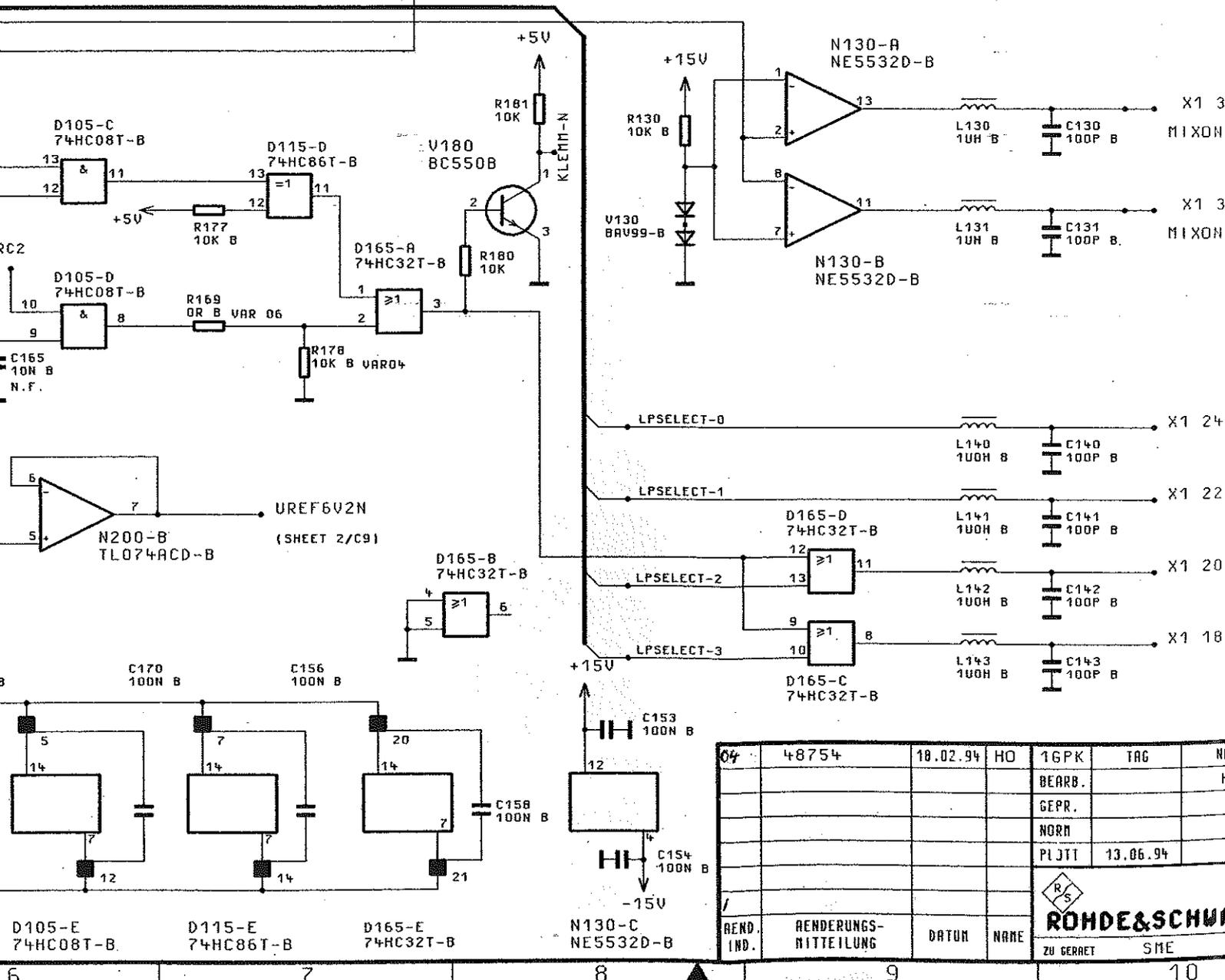
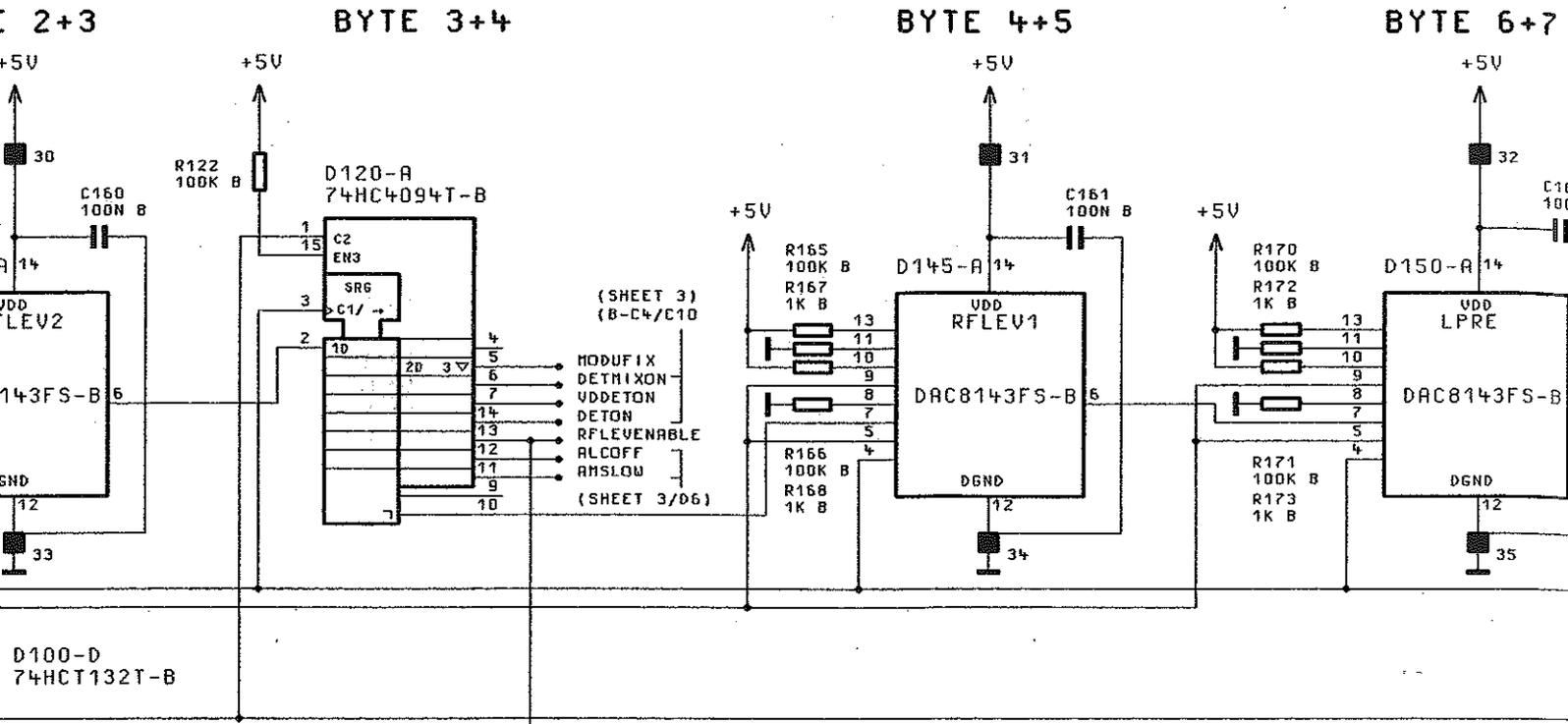
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|--------------|---------------------------|------|---|----------|--------|---------------------|----------------------|-----------|
| 01/00 | | | 1GPK | 1A6 | WARE | BENENNUNG | | |
| | | | BEAPB | | JN | AM-MODULATOR | | |
| | | | GEPR | | JN | | | |
| | | | NOPR | | | | | |
| | | | PLOTT | 05 05 93 | | | | |
| | | | ROHDE & SCHWARZ ZH 60007 S ME | | | ZEICHN.-NR. | | BLATT-NR. |
| RENO- IND | RENDERUNGS- MITTEILUNG | DRUM | | | | NRME | 1038.7444.015 | |
| | | | | | REG.-V | 1038 6002 | ERSTE Z | 1038 6002 |



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



| | | | | | | | | | |
|------------|-----------------------|----------|------|----------------------------|----------|------------|--------------------|----------------------|-----------|
| 04 | 48754 | 18.02.94 | HO | 1GPK | TAG | NARE | BENENNUNG | | |
| | | | | BEARB. | | HO | NF TEIL AF PART | | |
| | | | | GEPR. | | | | | |
| | | | | NORN | | | | | |
| | | | | PLJTT | 13.06.94 | | | | |
| | | | | ROHDE & SCHWARZ | | | ZEICHN.-NR. | BLATT-NR. | |
| | | | | | | | | 1038.7996.015 | 1+ |
| REND. IND. | RENDERUNGS-NITTEILUNG | DATUM | NARE | ZU GERÄT | SME | REG. I. V. | 1038.6002 | ERSTE Z. | 1038.7780 |



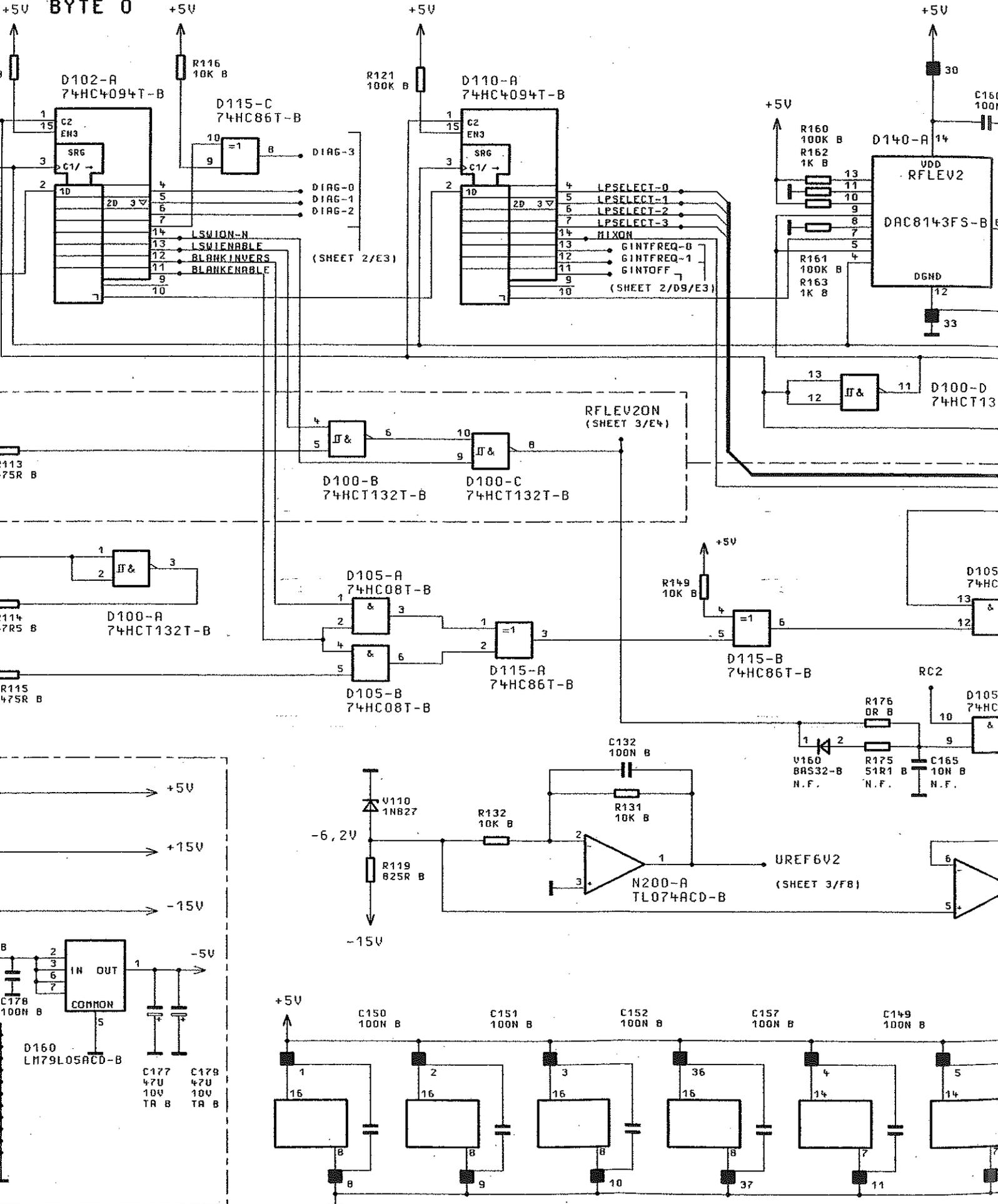
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| | | | | BEARB. | | |
| | | | | GEPR. | | |
| | | | | NORM | | |
| | | | | PLJTT | 13.06.94 | |
| | | | | | | |
| REND. IND. | RENDERUNGS-NITTEILUNG | DATUM | NAME | | | ZU GERÄT |

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BYTE 0

BYTE 1

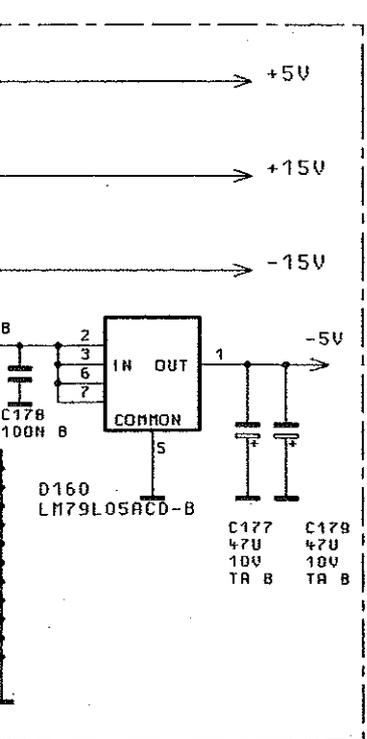
BYTE 2+3



R113
475R B

R114
475R B

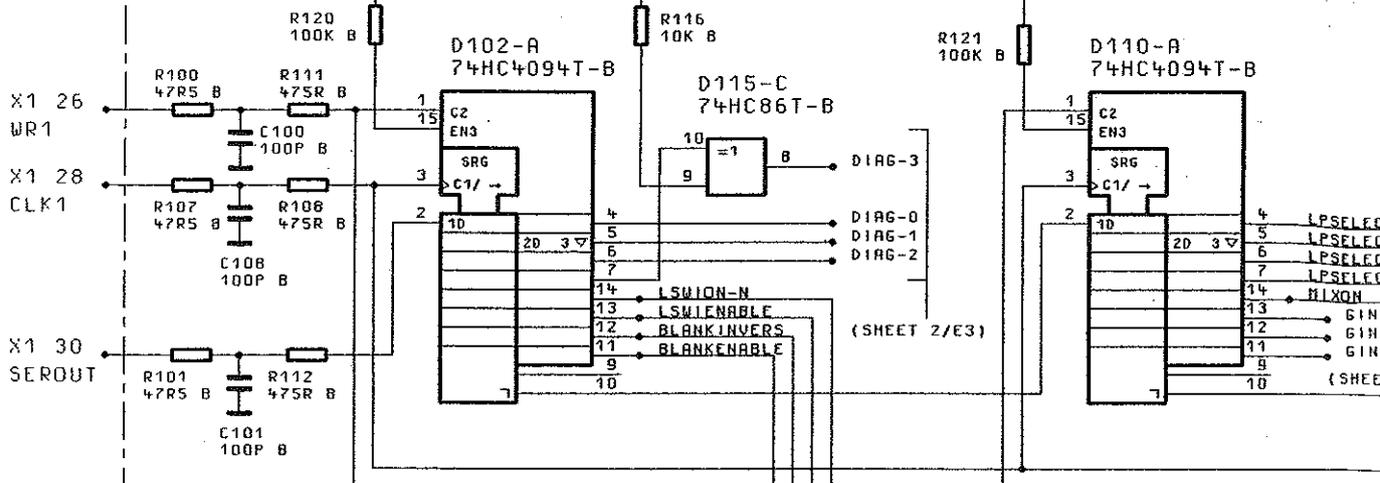
R115
475R B



- D102-B 74HC4094T-B
- D110-B 74HC4094T-B
- D120-B 74HC4094T-B
- D121-B 74HC4094T-B
- D100-E 74HC132T-B
- D105-E 74HC08T-B

SUBADDRESS 0
BYTE 0

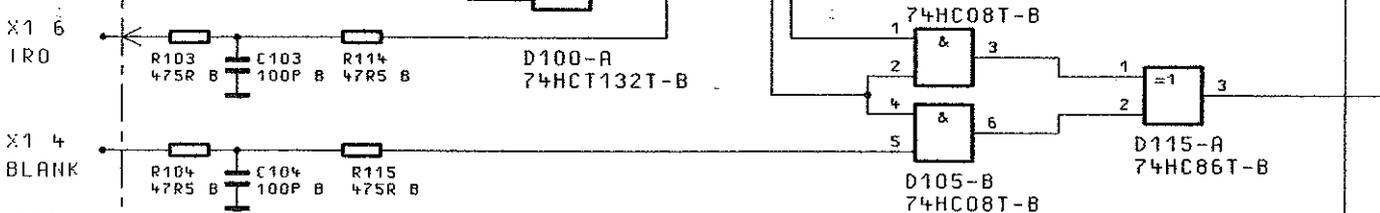
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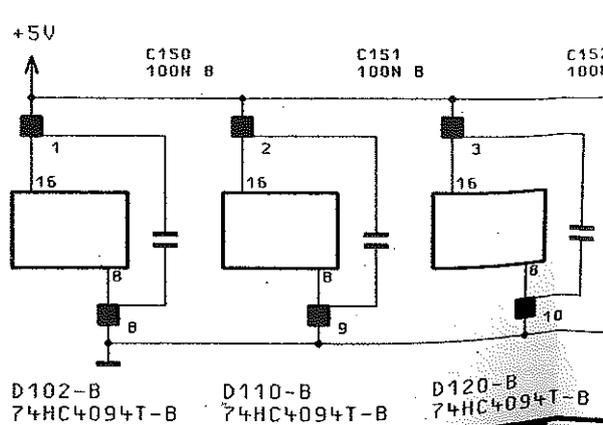
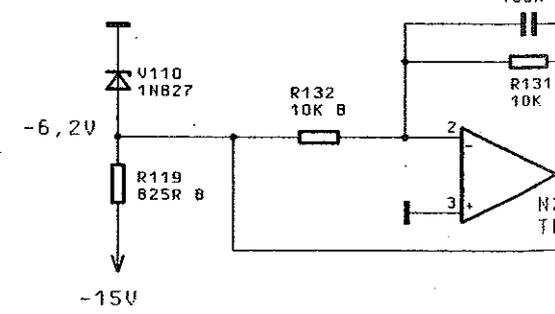
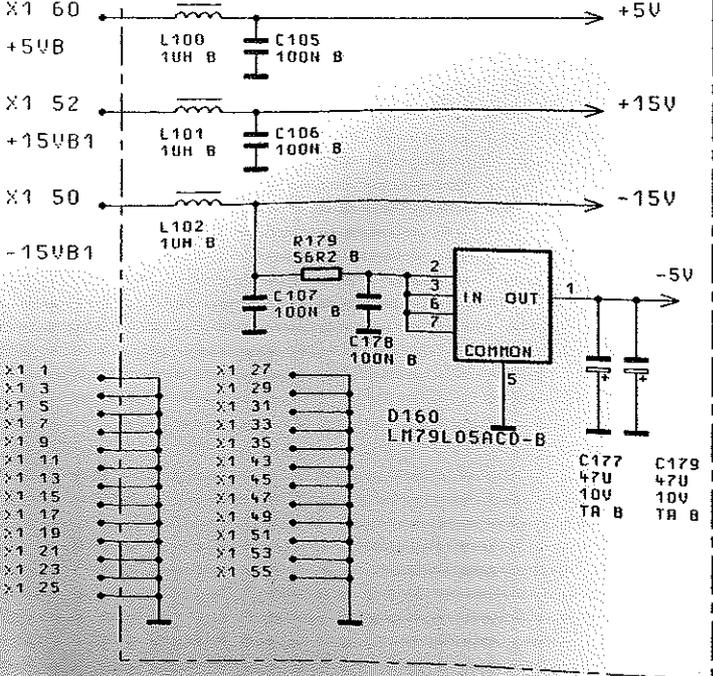
LSWI



ALARM-N
(SHEET 2/C4)



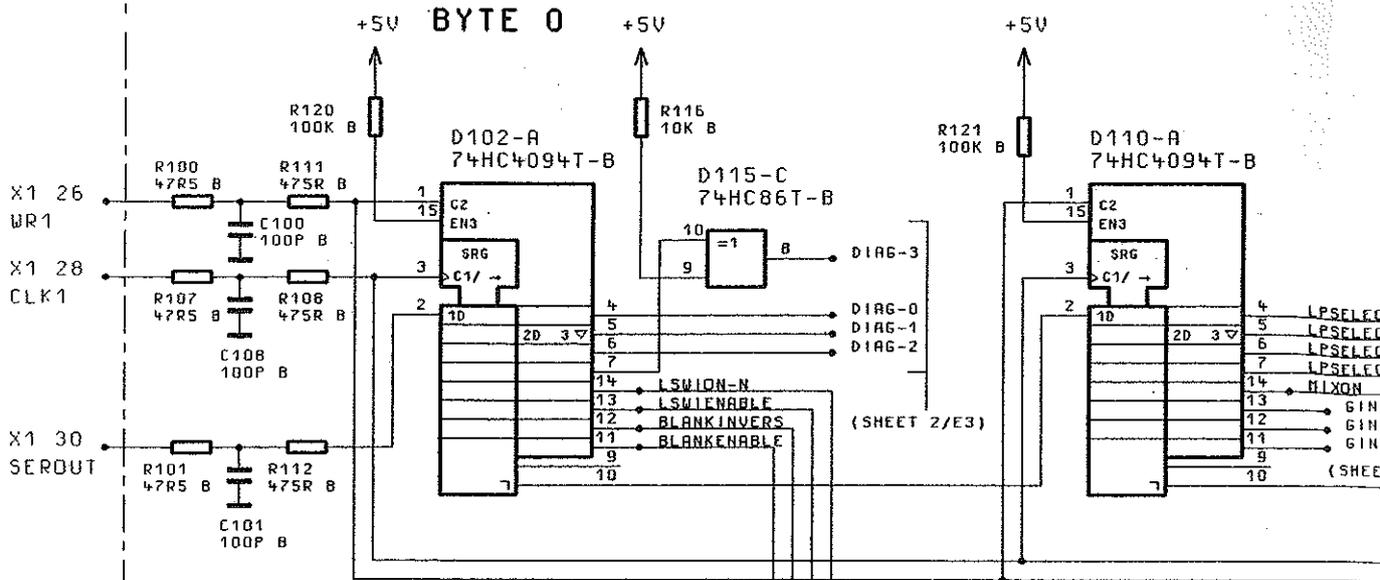
POWER



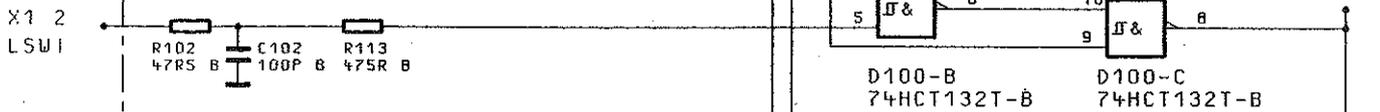
BEHALTEN WIP UNS ALLE RECHTE UOP

SUBADDRESS 0
BYTE 0

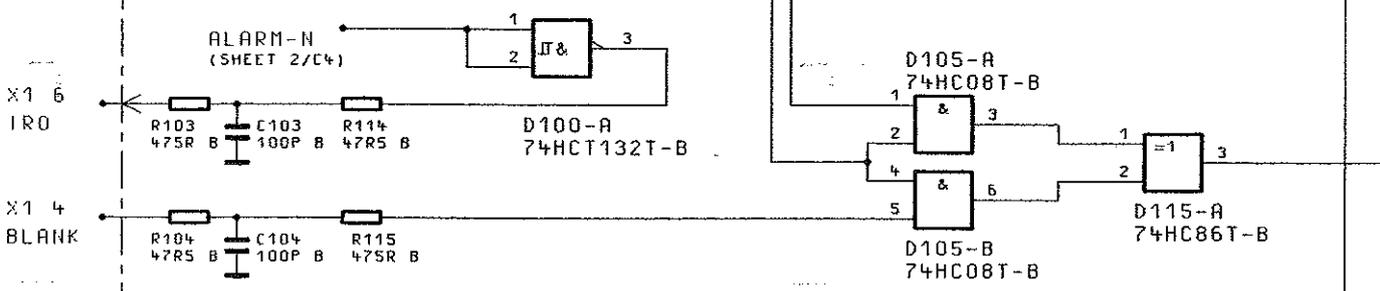
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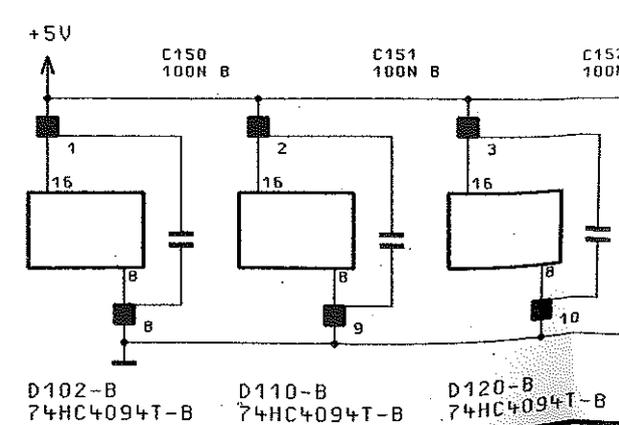
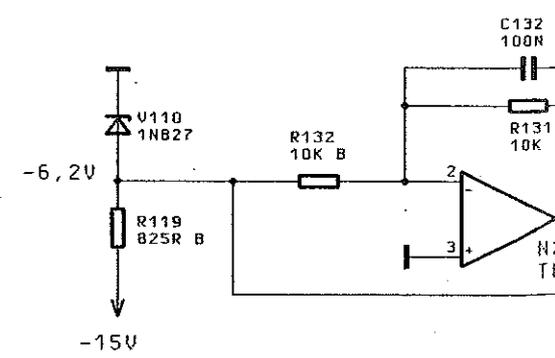
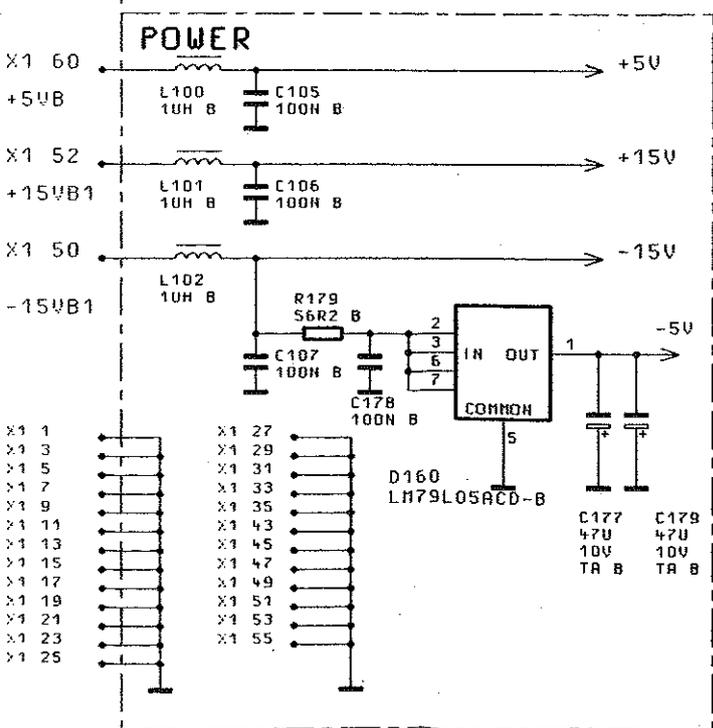
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ALARM-N
(SHEET 2/C4)



POWER

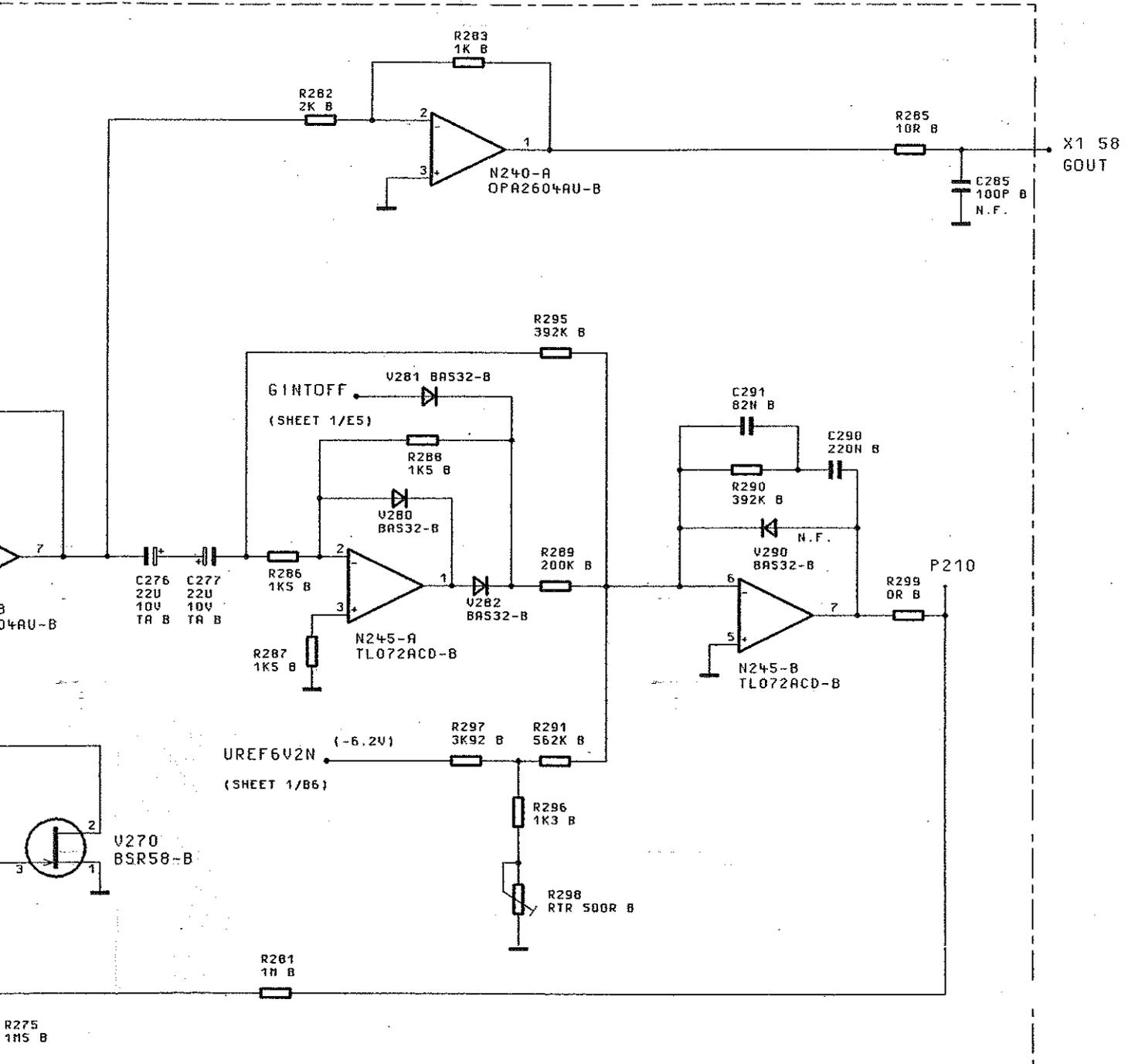


BEHALTEN WIP UNS ALLE RECHTE UOP
FUER DIESE UNTERLAGE

R298

P210

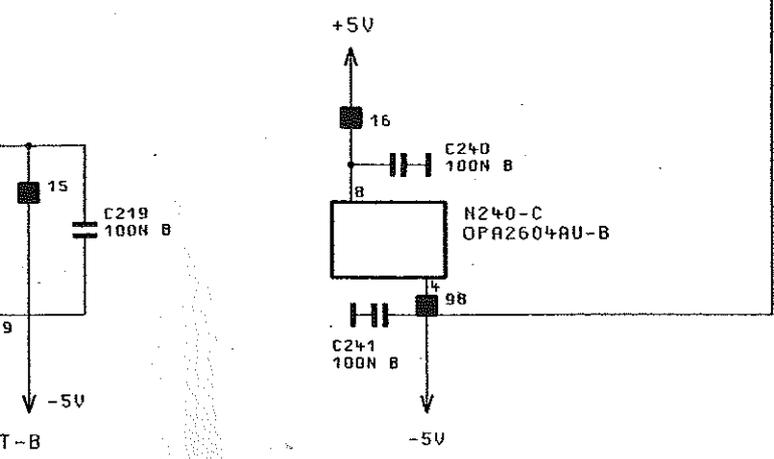
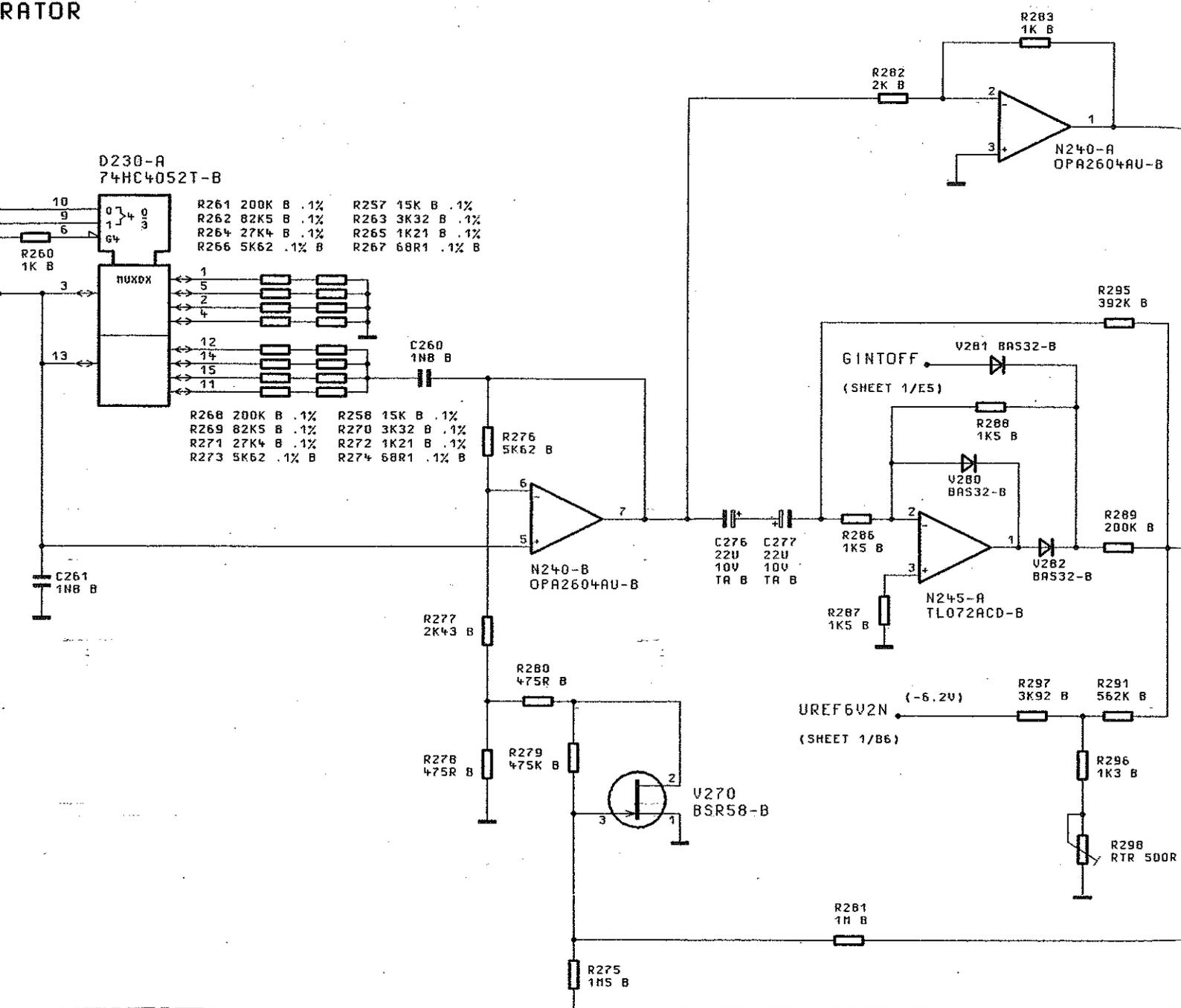
NF LEVEL



R275
1MS B

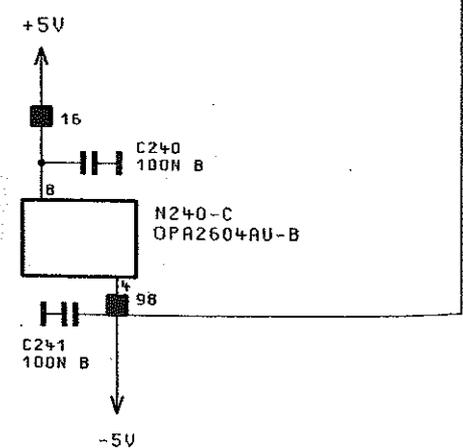
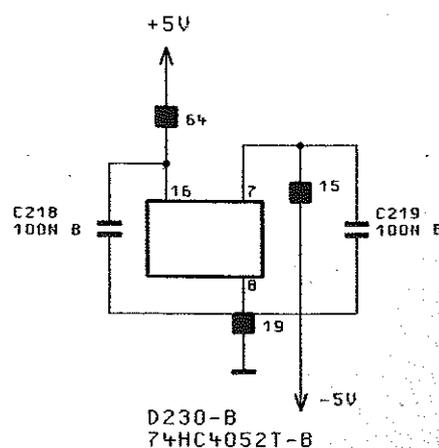
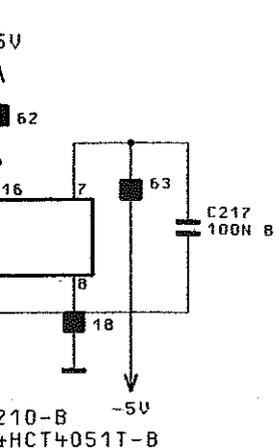
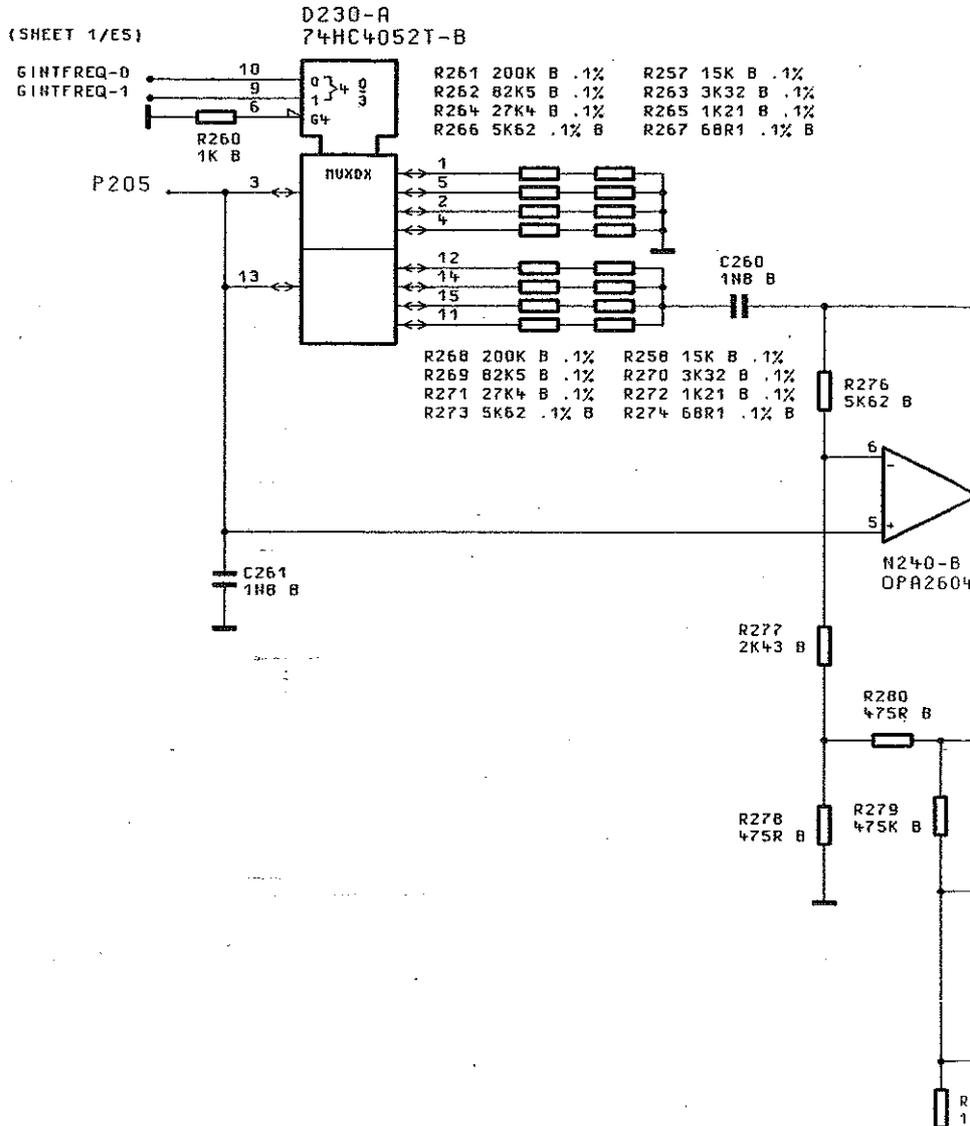
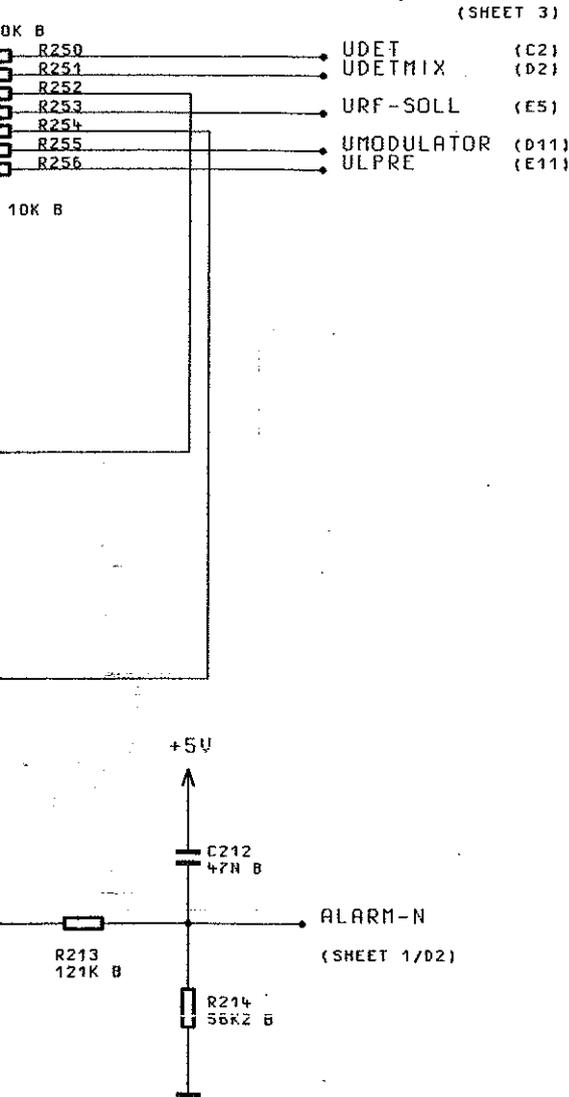
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|---------------|---------------------------|----------|------|---|----------|-----------|--------------------|----------|-----------|
| 04 | 48754 | 18.02.94 | HO | 1GPK | TAG | NAME | BENENNUNG | | |
| | | | | BEARB. | | HO | NF TEIL AF PART | | |
| | | | | GEPR. | | | | | |
| | | | | NORM | | | | | |
| | | | | PLOTT | 13.06.94 | | | | |
| | | | |  ROHDE & SCHWARZ | | | ZEICHN.-NR. | | BLATT-NR. |
| | | | | | | | 1038.7996.015 | | 2+ |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAME | ZU GERÄT | SME | REG.-I.V. | 1038.6002 | ERSTE Z. | 1038.7780 |
| | | 9 | | | 10 | | 11 | | 12 |

RATOR



| | | | | | |
|------------|----------------------|-------|--------|--------------|----|
| 48754 | 18.02.94 | HO | 1GPK | TAG | NA |
| | | | BEARB. | | H |
| | | | GEPR. | | |
| | | | NORM | | |
| | | | PLOTT | 13.06.94 | |
| | | | | | |
| REND. IND. | ÄNDERUNGS-MITTEILUNG | DATUM | NAMEN | ZU GERÄT SME | |

NF-GENERATOR

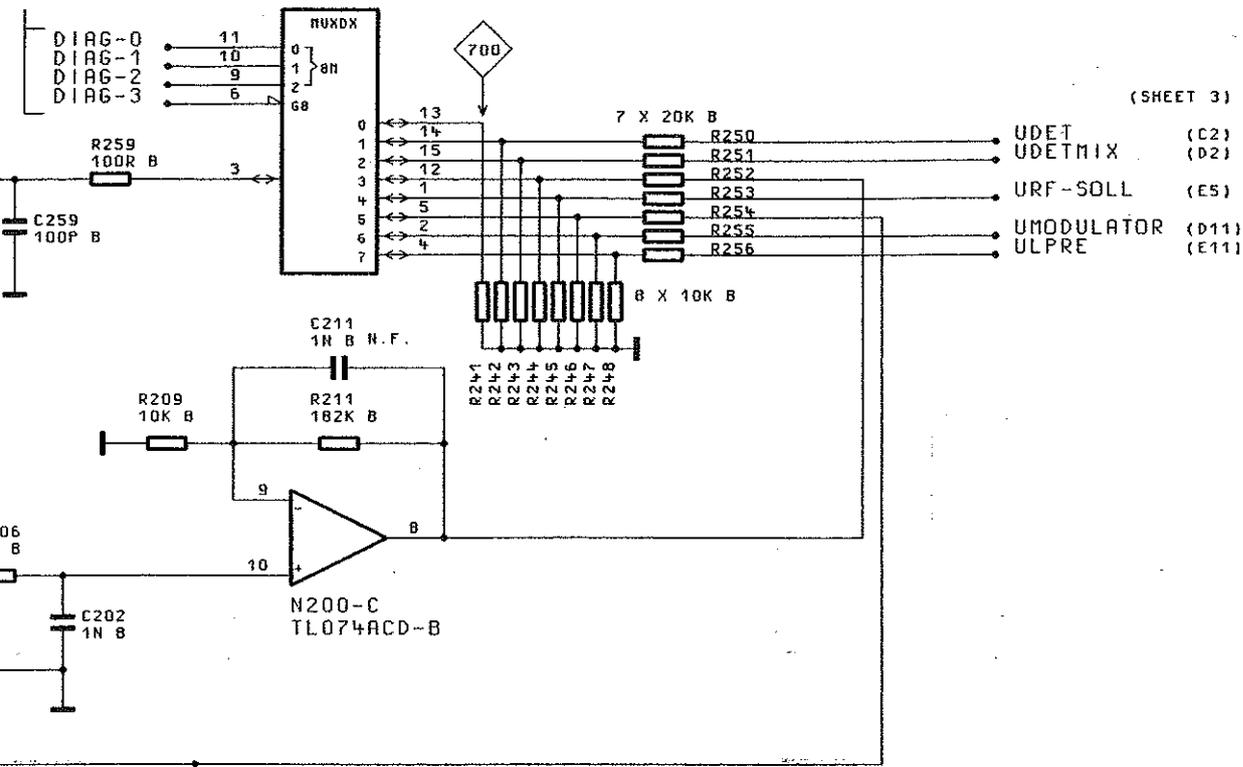


DIAGNOSE

NF-GENERATOR

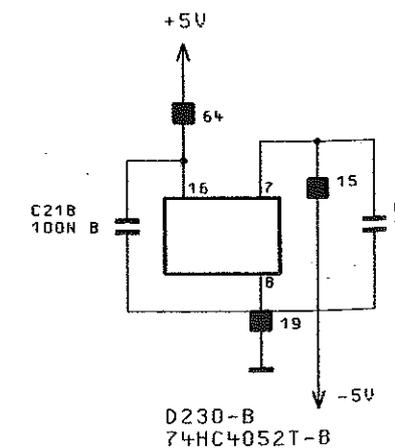
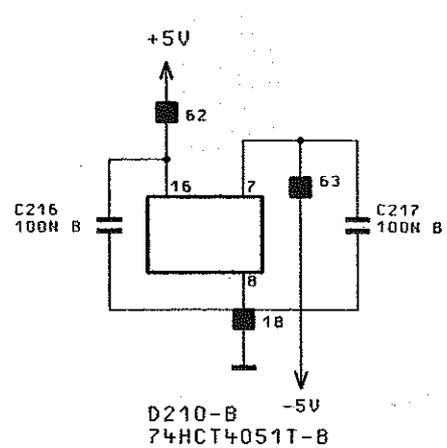
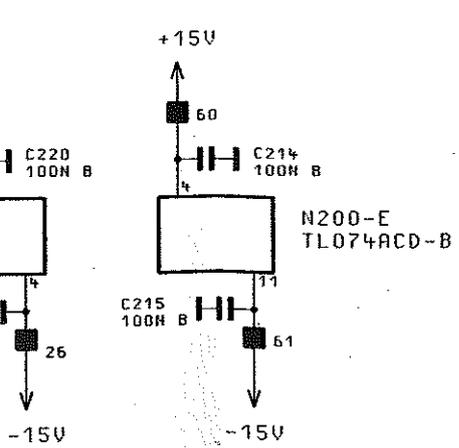
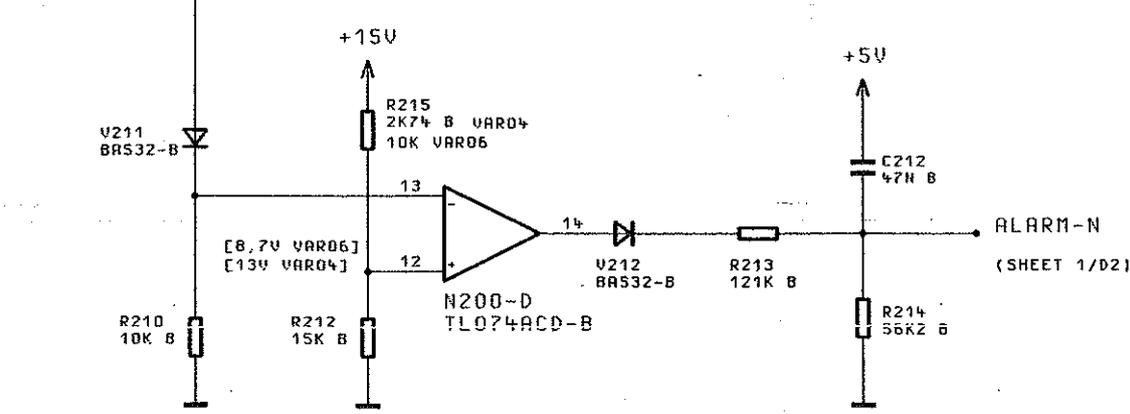
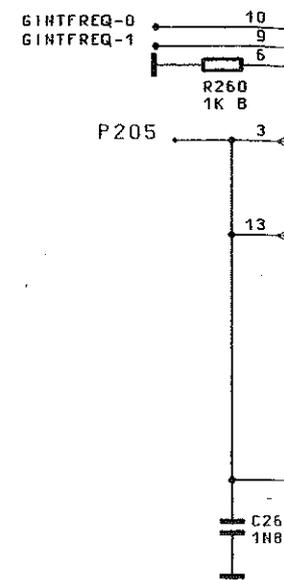
(SHEET 2/E3)

D210-A
74HCT4051T-B



(SHEET 3)

(SHEET 1/E5)



DIAGNOSE

(SHEET 2/E3)

D210-A
74HCT4051T-B

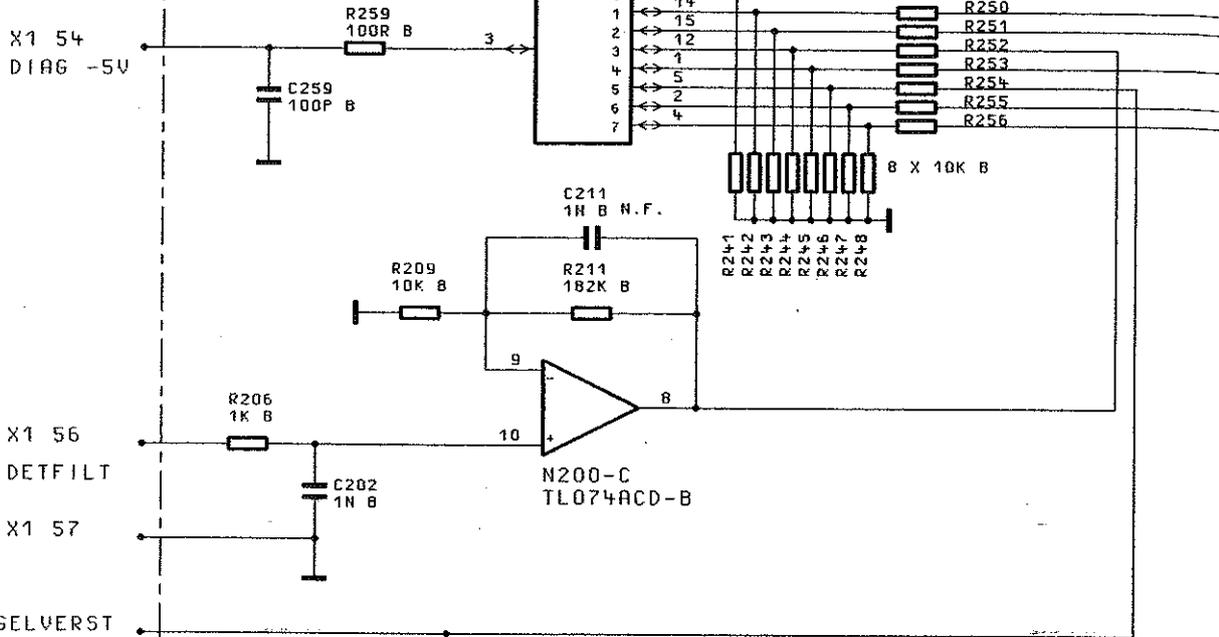


X1 54
DIAG -5V

X1 56
DEFILT

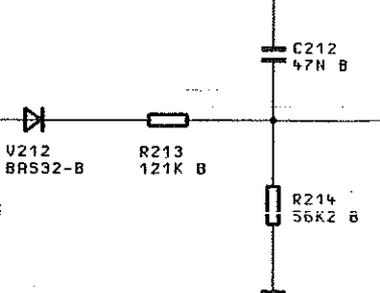
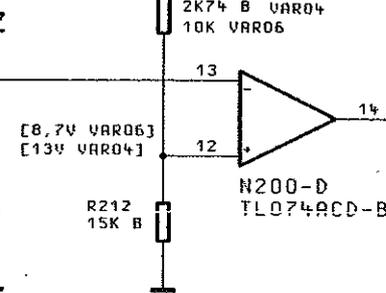
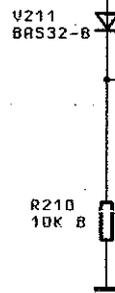
X1 57

UREGELVERST
(SHEET 3/B11)



+15V

+5V



+15V

+15V

+5V

N245-C
TL072ACD-B

N200-E
TL074ACD-B

D210-B
74HCT4051T-B

C220 100N B

C214 100N B

C216 100N B

C217 100N B

C221 100N B

C215 100N B

-15V

-15V

-5V

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN. - N

1

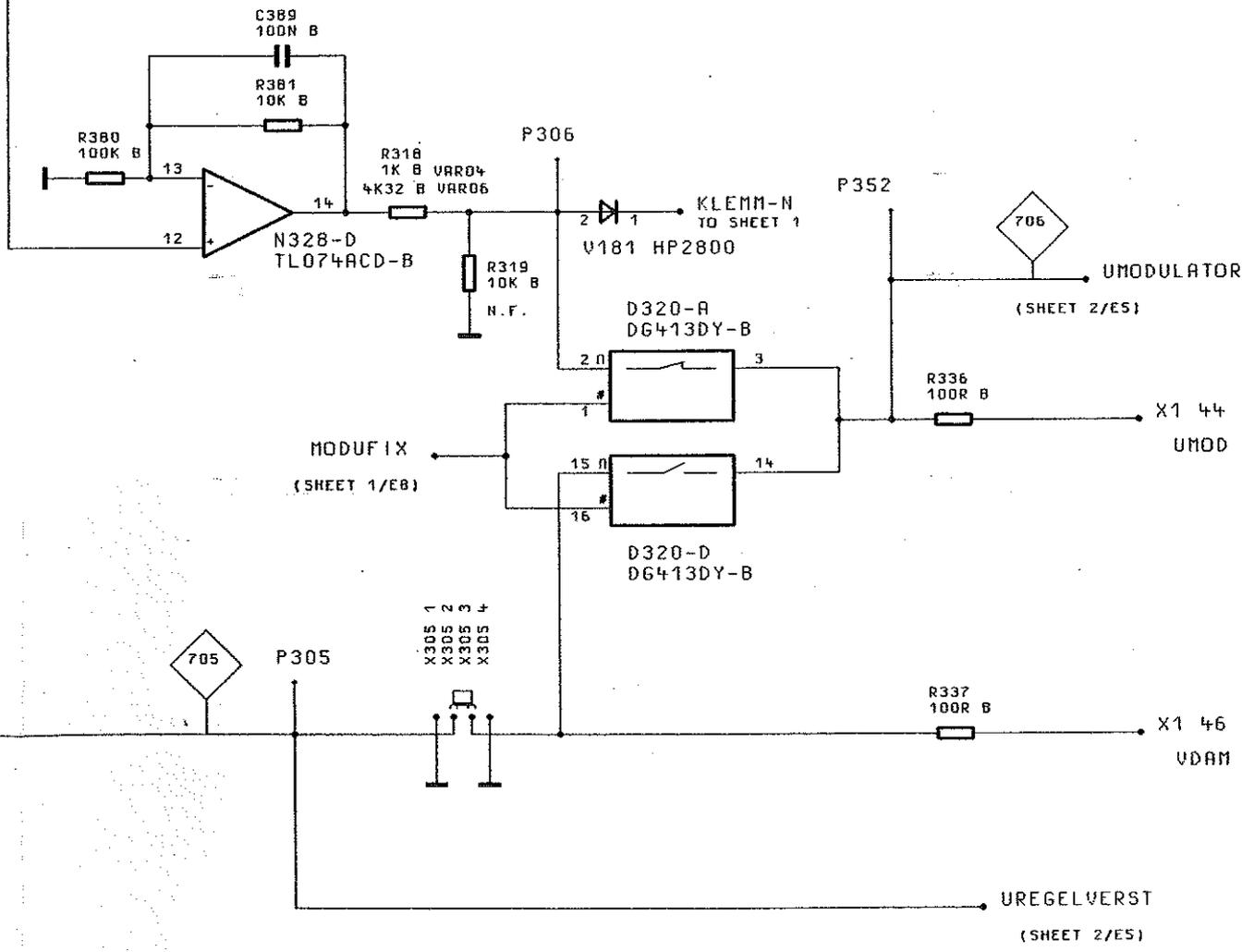
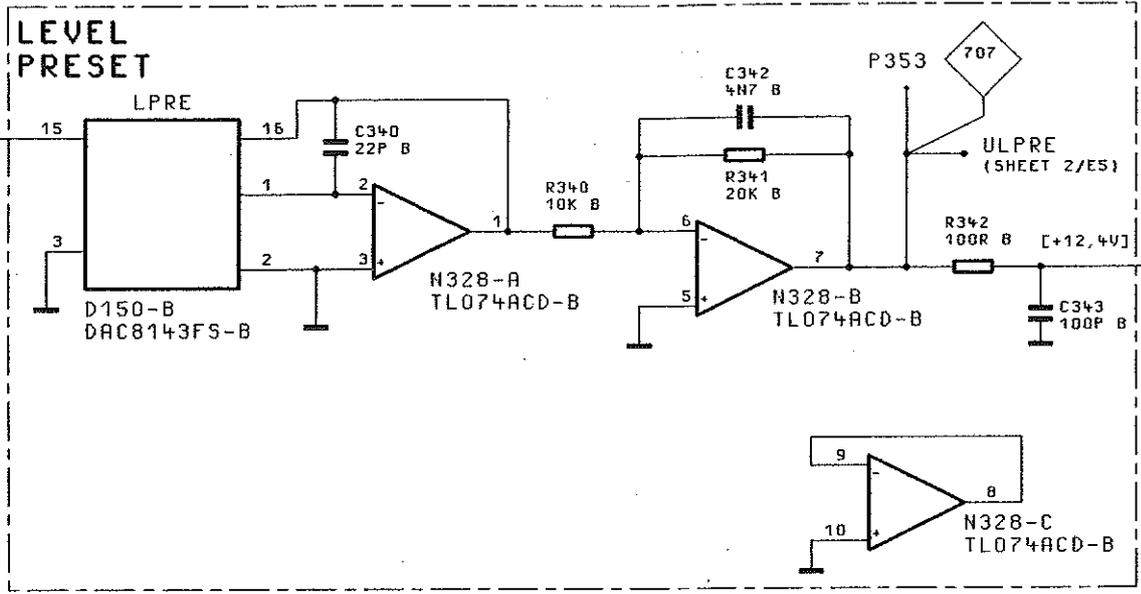
2

3

4

P306
P305

P353
P352



| | | | | | | | |
|------------|----------------------|----------|------|----------------------------|----------|------------|----------------------|
| 04 | 48754 | 18.02.94 | HO | 1GPK | TAG | NAME | BENENNUNG |
| | | | | BEARB. | | HO | NF TEIL AF PART |
| | | | | GEPR. | | | |
| | | | | NORN | | | |
| | | | | PLOTT | 13.06.94 | | |
| | | | | ROHDE & SCHWARZ | | | ZEICHN.-NR. |
| | | | | | | | 1038.7996.015 |
| REND. IND. | ÄNDERUNGS-NITTEILUNG | DATUM | NAME | ZU GERÄT | SME | RES. I. V. | ERSTE Z. |
| | | | | | | 1038.6002 | 1038.7780 |

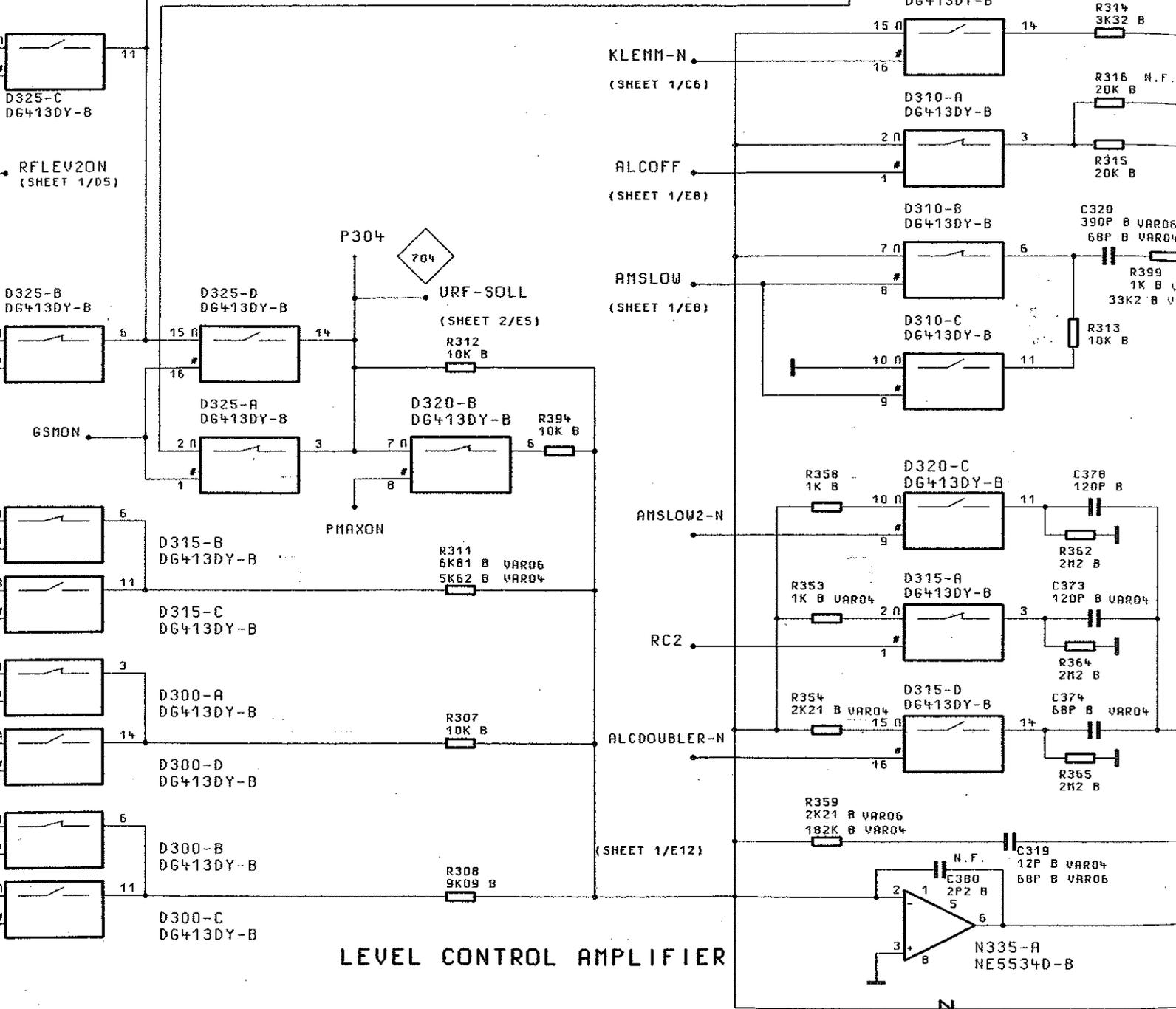
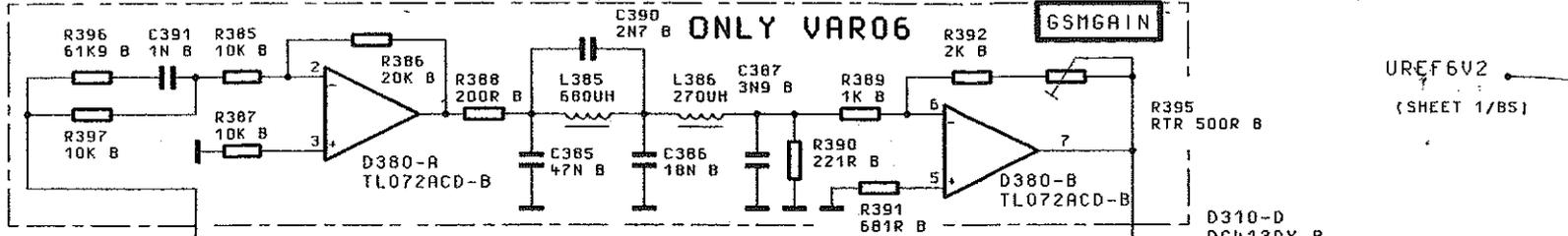
P304

R395

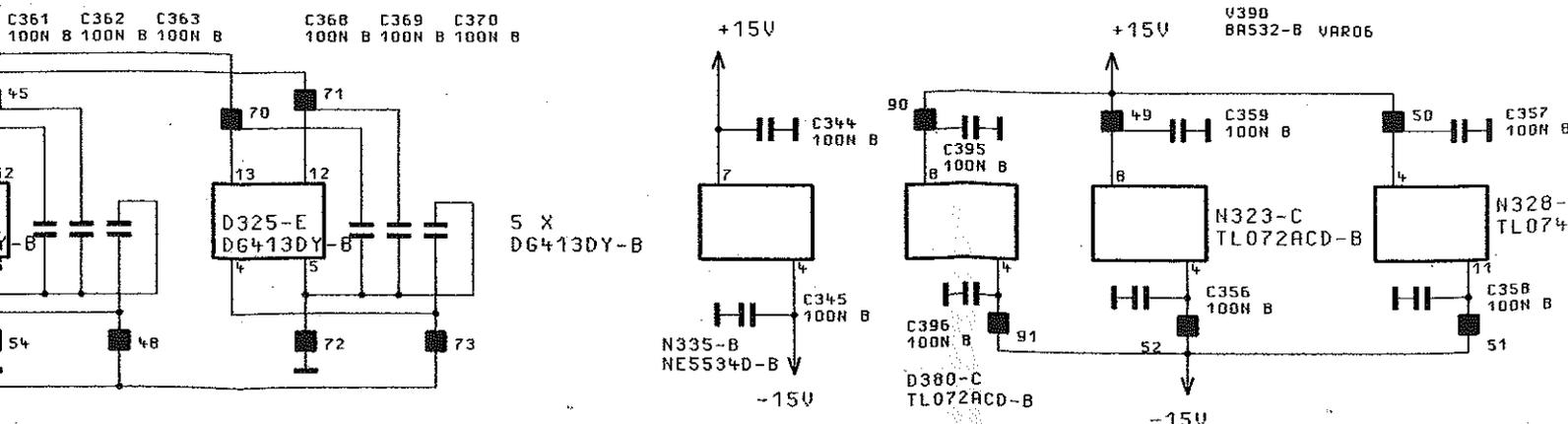
ONLY VAR06

GSMGAIN

UREF6V2
(SHEET 1/BS1)

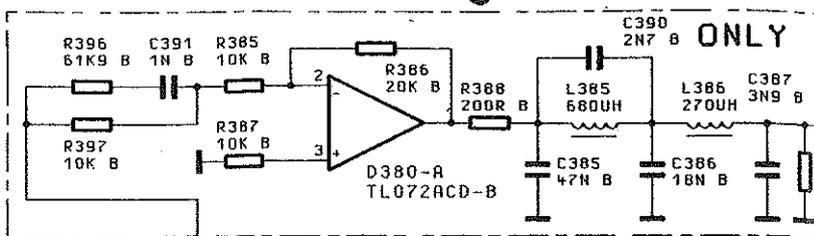
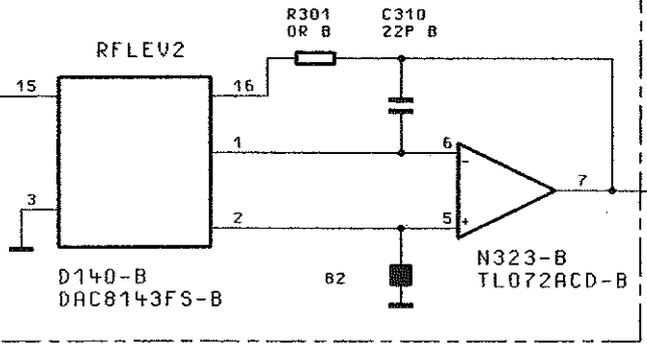
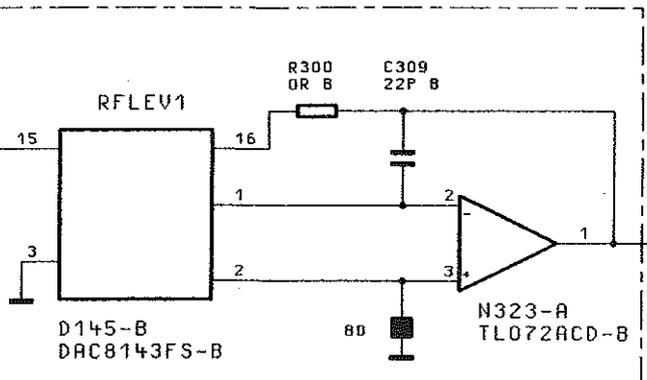


LEVEL CONTROL AMPLIFIER



P300
P301

P304



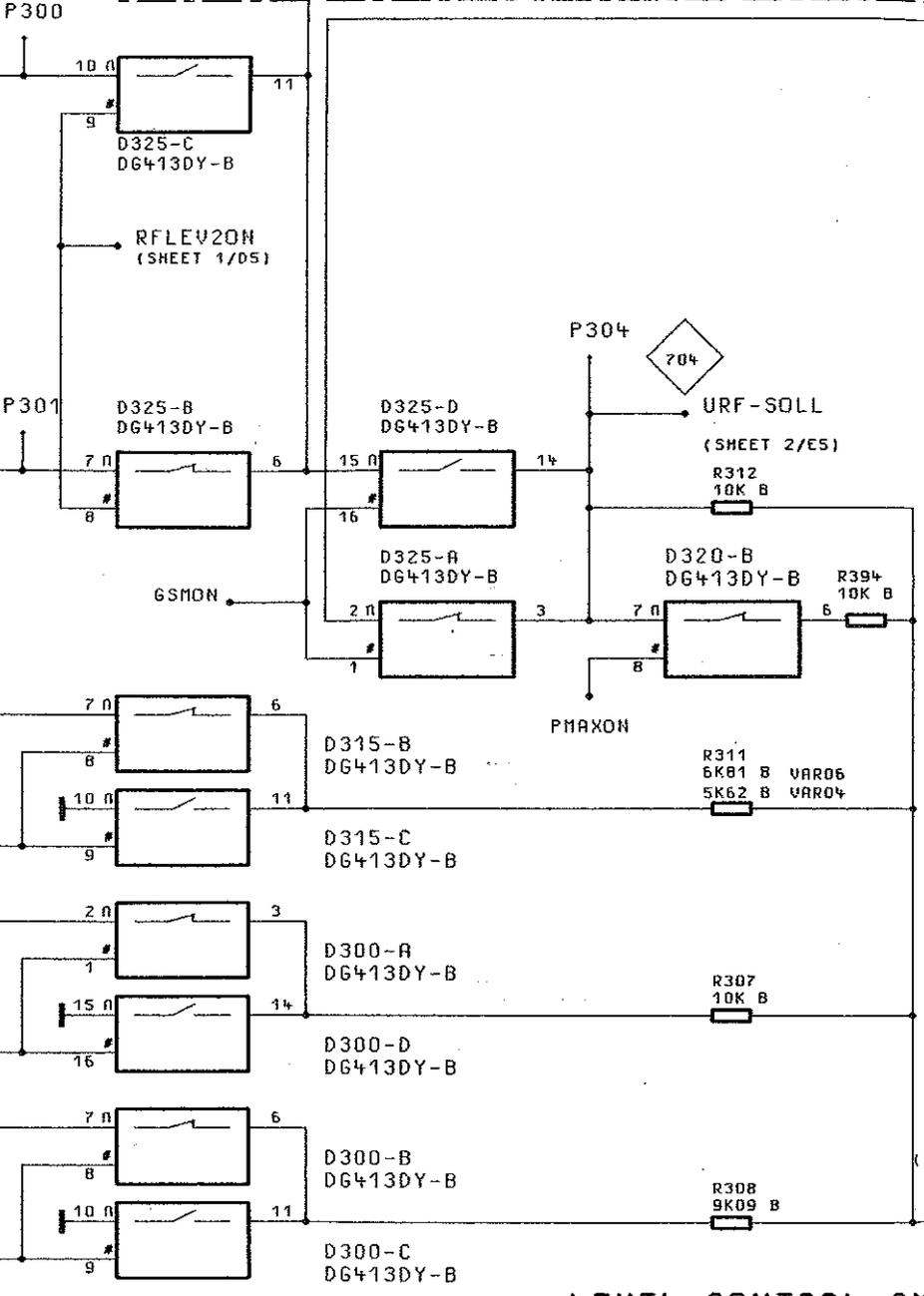
UDET MIX (SHEET 2/E5) 702

UDET (SHEET 2/E5) 701

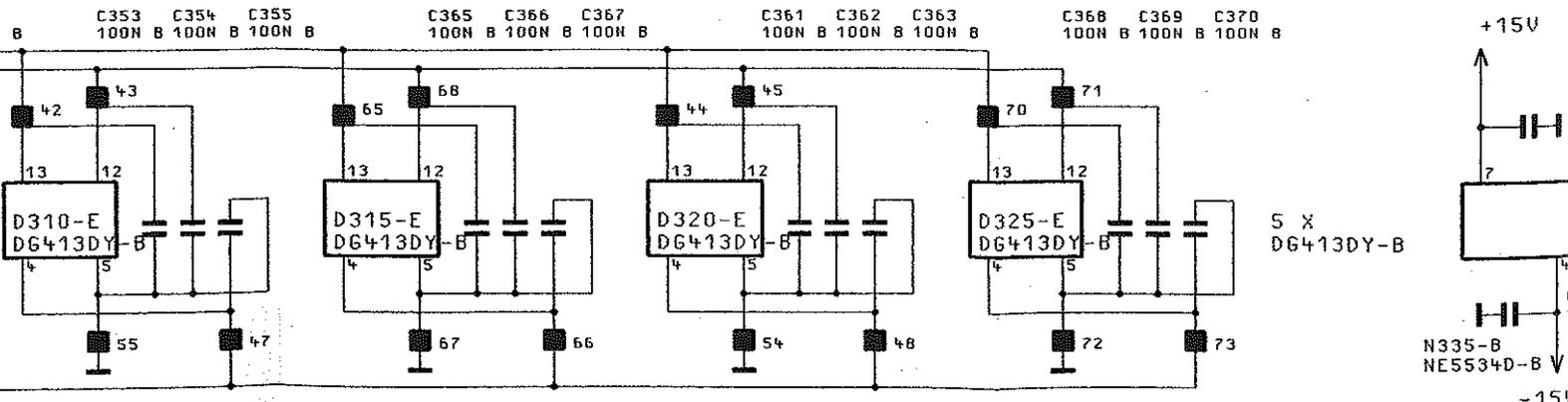
DETMIXON (SHEET 1/E8)

VDETTON (SHEET 1/E8)

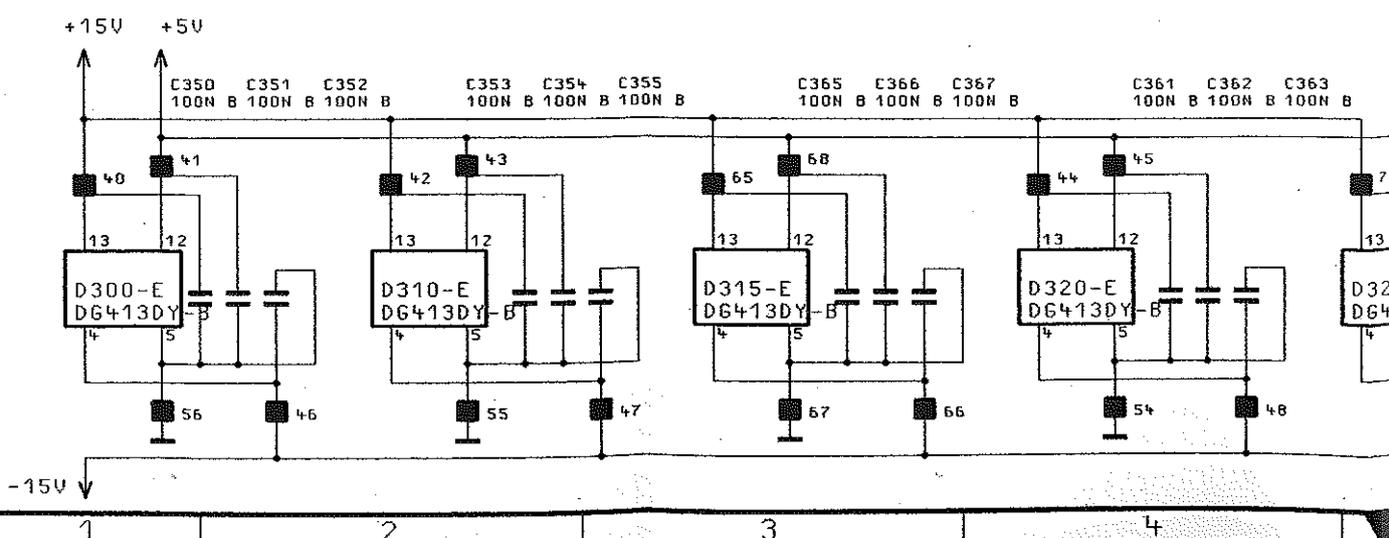
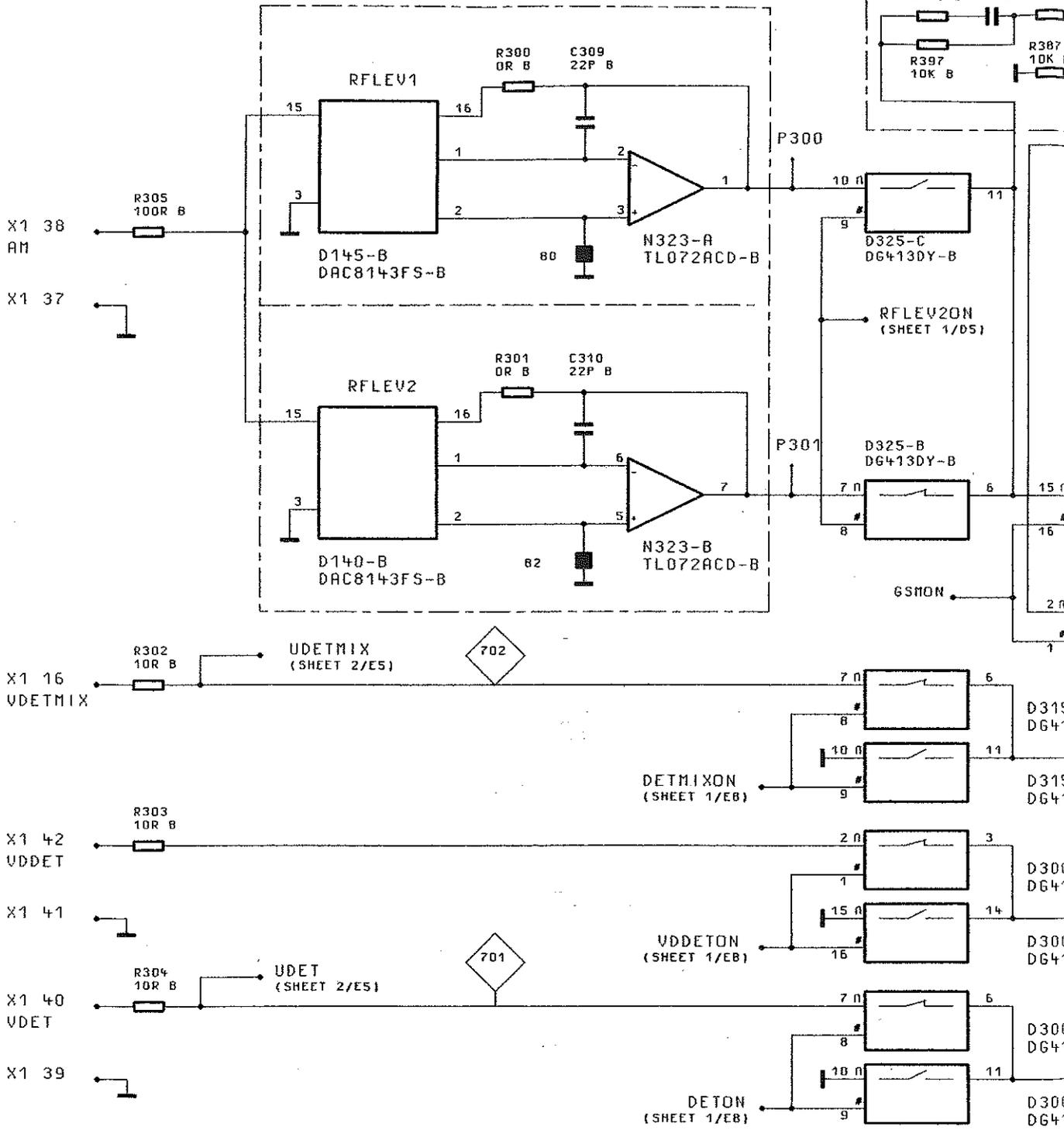
DETON (SHEET 1/E8)



LEVEL CONTROL AM

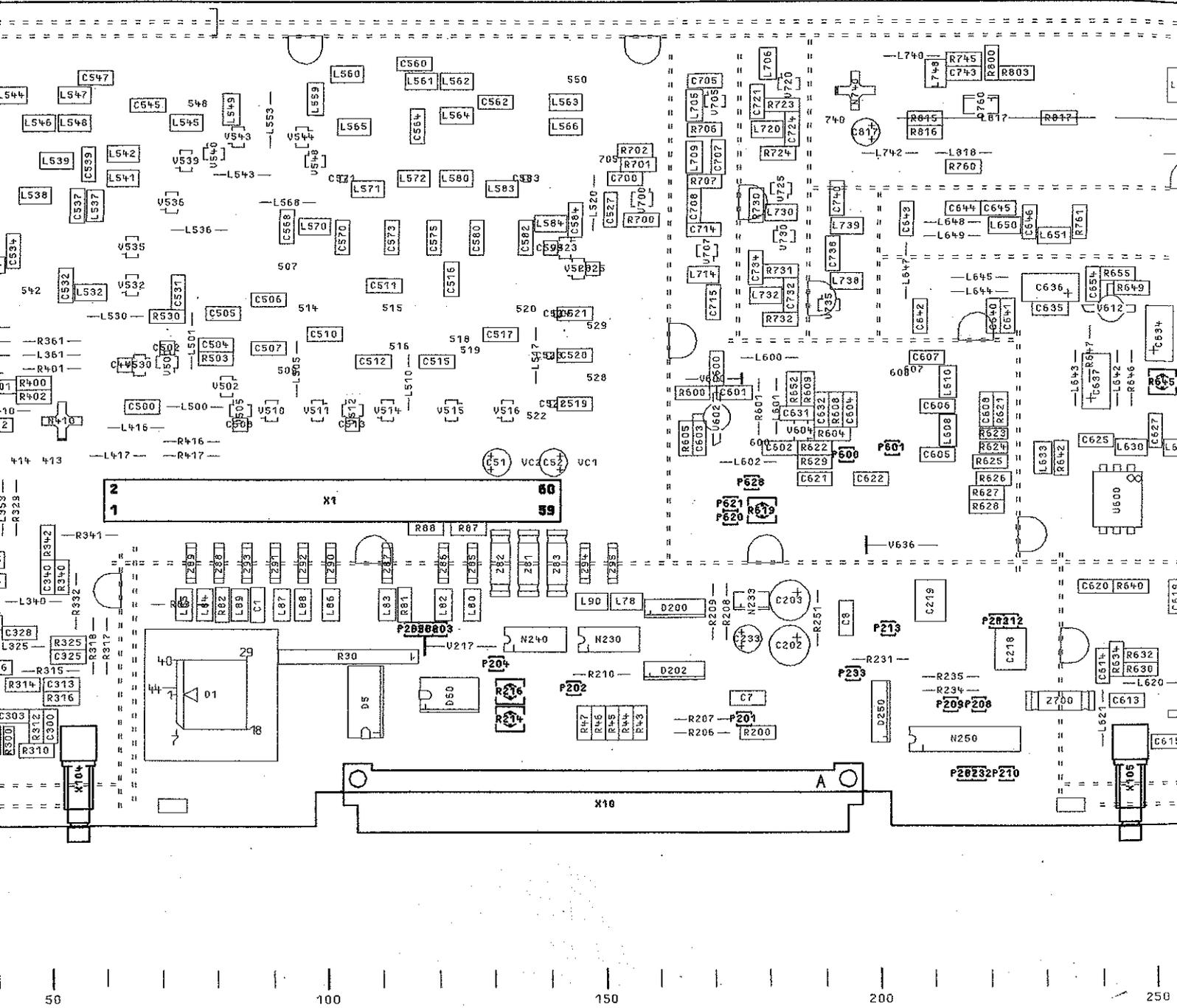


P300
P301



FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

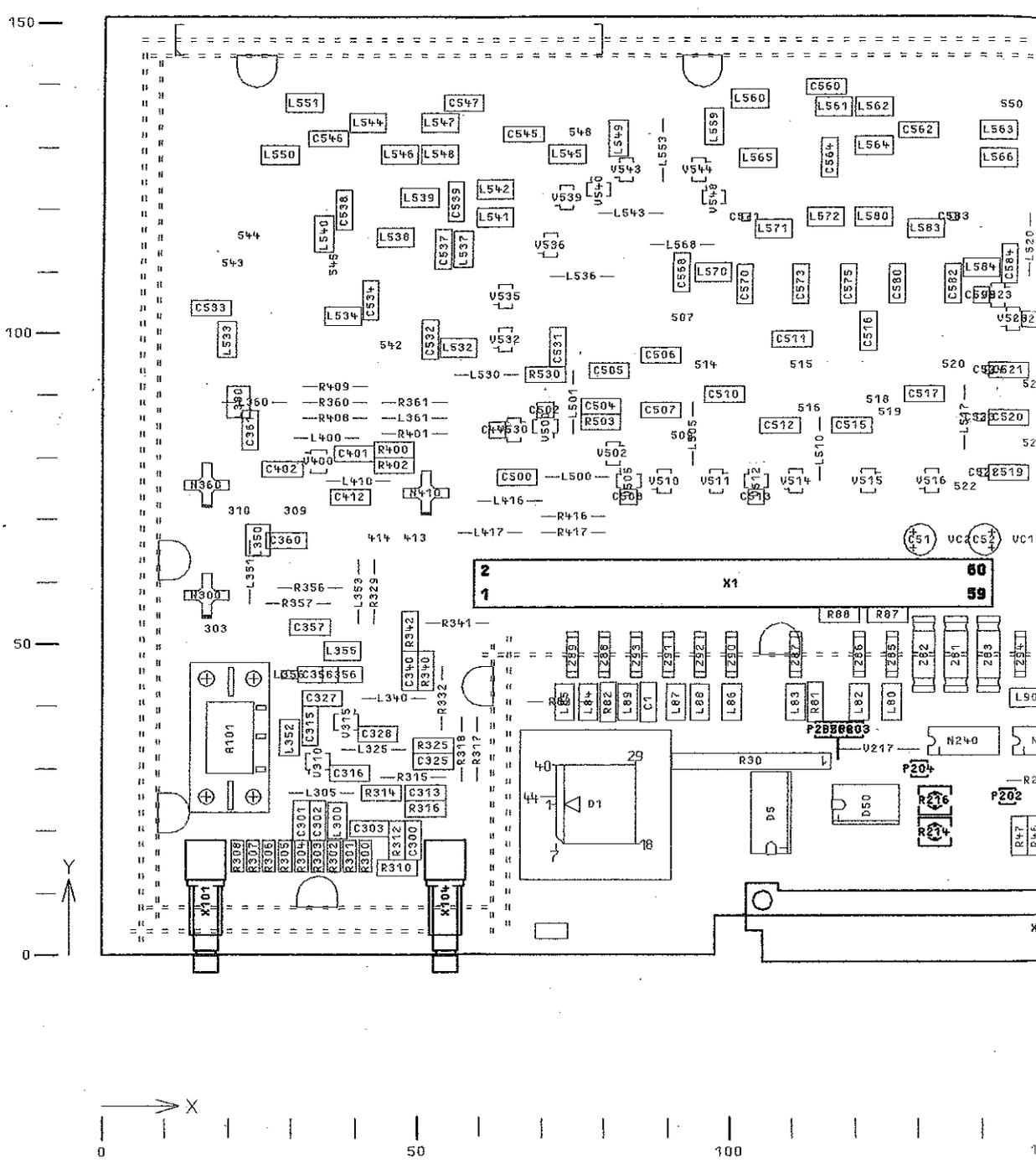
ZEICHN. - N



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

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

| | | | |
|---------------|---------------------------|----------|--|
| 01/00 | 48731 | 04.05.93 | |
| 02/03 | 48731 | 30.03.93 | |
| REND. IND. | RENDERUNGS- MITTE/LUNG | DATUM | |

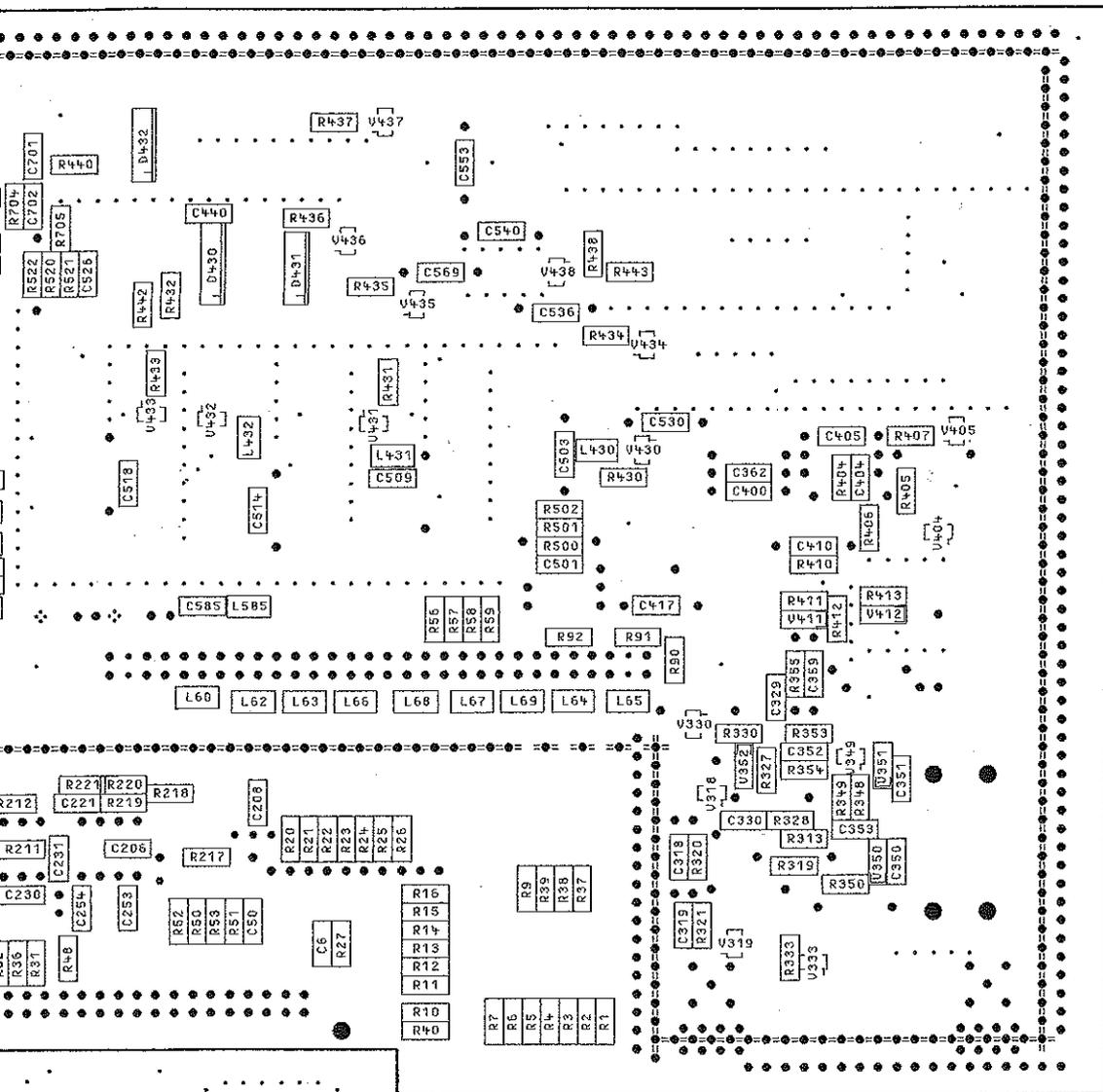


DIESE ZEICHNUNG IST EIN RECHNERDRUCK. BERÜHRUNGEN KÖNNEN NUR DURCH ÄNDERN DES DRUCKSatzES ERFOLGEN.
 FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR.

DARSTELLUNG SEITE B
VIEW ON SIDE B

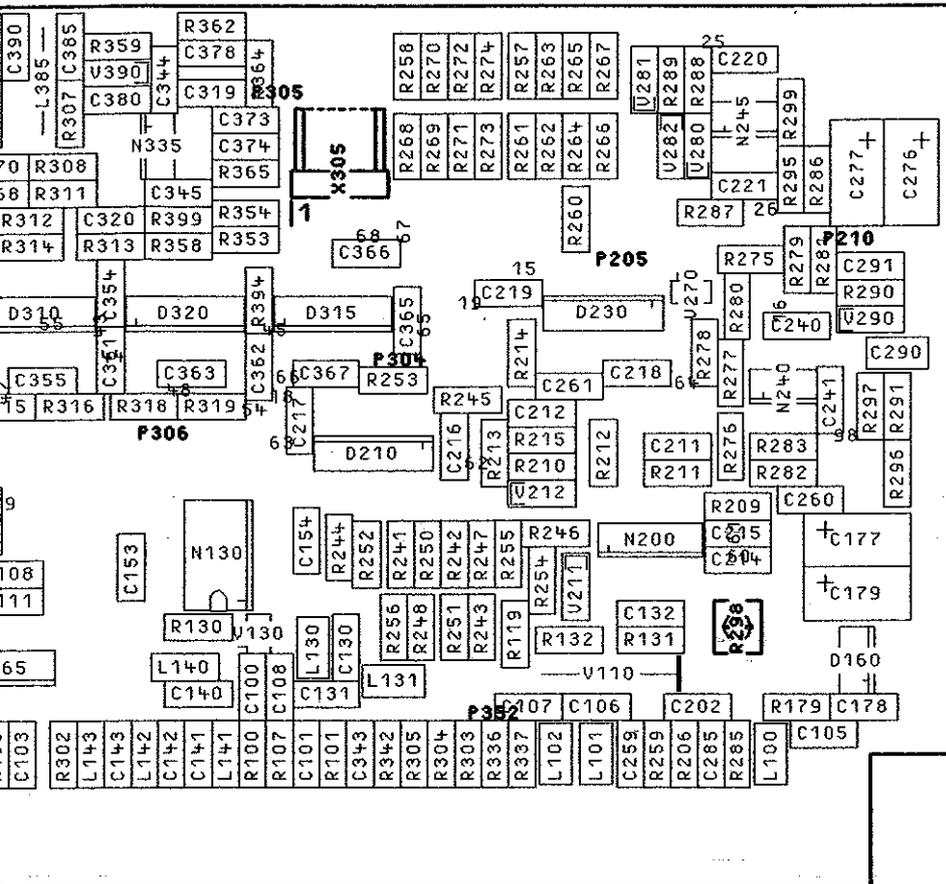
ACHTUNG: EGB!
 ELEKTROSTATISCH GEFÄHRDETE
 BAUTEILE ERFORDERN EINE
 BESONDERE HANDLUNG.
ATTENTION ESD!
 ELECTROSTATIC SENSITIVE DEVICES
 REQUIRE A SPECIAL HANDLING

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



959

| | | | | | | | | |
|-------|--------------------------|----------|-------|---|-------------|-----------------|---|--------------------|
| 03/00 | 48731 | 04.05.93 | JN | 1GPK | TAG | NARE | BENENNUNG | Z |
| | | | | BEARR. | | DR | AUSGANGSTEIL 1.56GHZ OUTPUT UNIT 1.56GHZ | |
| | | | | GEPR. | | DR | | |
| | | | | NORM | | | | |
| | | | | PL011 | 04.05.93 | | | |
| 02/03 | 48731 | 30.03.93 | BU |  ROHDE & SCHWARZ | ZEICHN.-NR. | 1038.7780.01-EE | BLATT-NR. 2+ | |
| IND. | ÄNDERUNGS- MITTEILUNG | DATUM | NAMEN | | ZU GEHÖRT | SME | 1038.6002 | ERSTE Z. 1038.6048 |



100

150

| | | | | | | | | |
|---------------|---------------------------|----------|------|---|----------|-------------|--------------------|-----------|
| D3/ | 48754 | 18.02.94 | HO | 1GPK | TAG | NAME | BENENNUNG | Z |
| | | | | BEARB. | | JN | NF TEIL AF PART | |
| | | | | GEPR. | | | | |
| | | | | NORM | | | | |
| | | | | PLOTT | 10.11.94 | | | |
| | | | |  ROHDE&SCHWARZ | | ZEICHN.-NR. | 1038.7996.01 EE | BLATT-NR. |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAME | ZU GERÄT | SME | REG. I. V. | | 1038.6002 |
| | | | | | | | | 1+ |
| | | | | | | | | v. BL. |

5

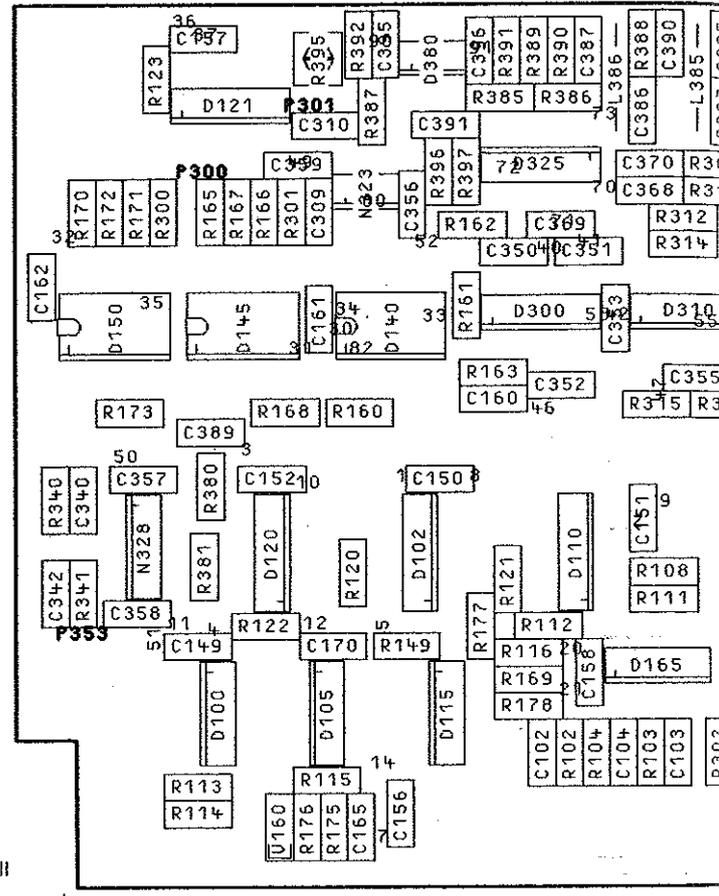
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7

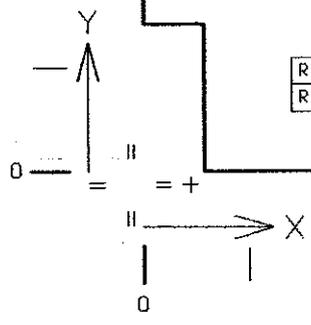
8

DIESE ZEICHNUNG IST EIN RECHNERAUSDRUCK, ÄNDERUNGEN KÖNNEN NUR DURCH ÄNDEREN DES DATENSATZES ERFOLGEN

F
E
D
C
B



50



V180
P180

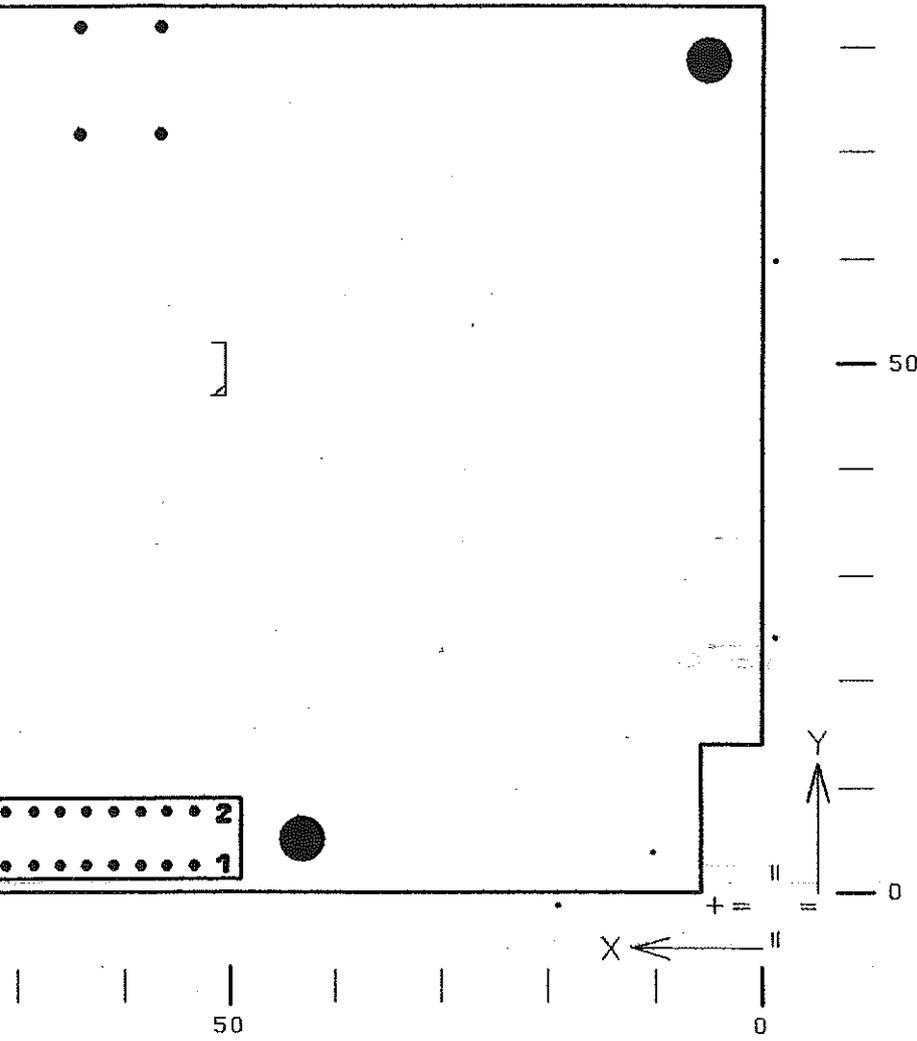
DARSTELLUNG SEITE B
VIEW ON SIDE B

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

ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

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

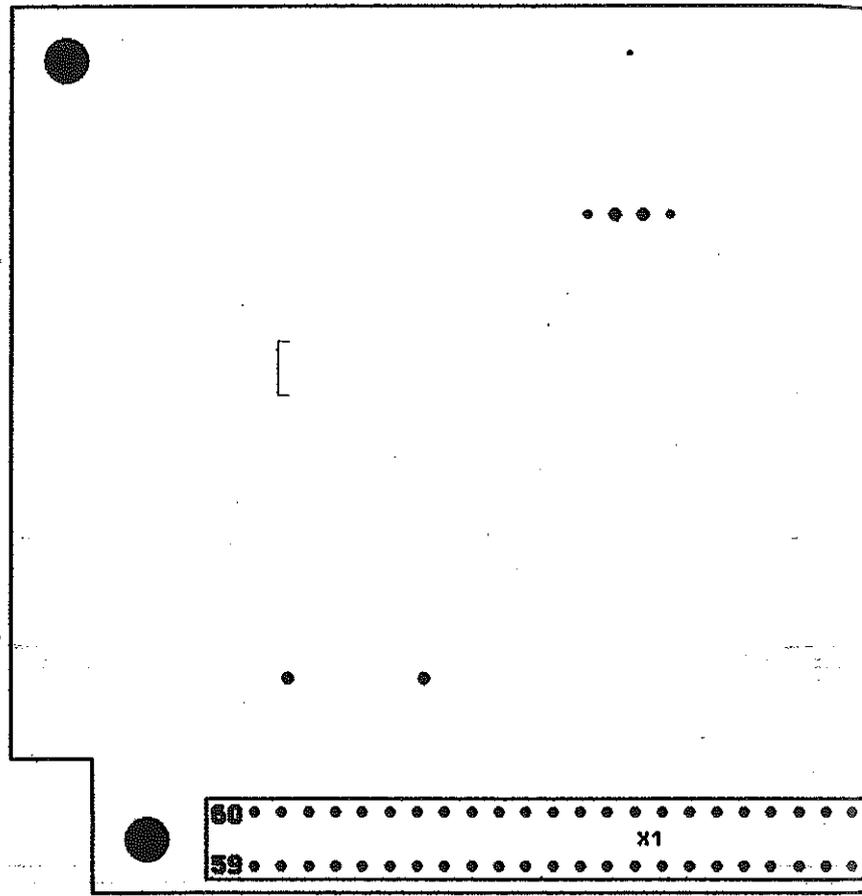
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST



| | | | | | | | | | |
|---------------|---------------------------|----------|-------|--------------------------------|----------|--------------|--------------------|------------|-----------|
| 03/ | 48754 | 18.02.94 | HO | 1GPK | TAG | NONE | BENENNUNG | | Z |
| | | | | BEARB. | | HO | NF TEIL AF PART | | |
| | | | | GEPR. | | HO | | | |
| | | | | NORM | | | | | |
| | | | | PLOTT | 25.04.94 | | ZEICHN.-NR. | | BLATT-NR. |
| | | | | ROHDE & SCHWARZ | | 1038.7996.01 | | EE | 2- |
| REND. IND. | RENDERUNGS- MITTEILUNG | DATUM | NAMEN | | | ZU GERÄT | SME | REG. I. V. | 1038.6002 |

FUER DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR
DIESE ZEICHNUNG IST FÜR DRUCKRECHNUNG, REPARATUR UND REPARATUR DES DATENSATZES ERFOLGEN

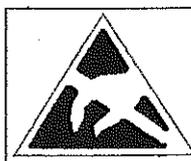
F
E
D
C
B
A



150

100

DARSTELLUNG SEITE A
VIEW ON SIDE A



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

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