

SKM 100 SKM 300 SKM 500

Part 1



TECHNISCHE DATEN

(Werte in Klammern entsprechen typischen Werten)

HF-TEIL

Frequenzaufbereitung	Phase-Locked-Loop (PLL)-Synthesizer
Frequenzbereiche	518 ... 550 MHz 630 ... 662 MHz 740 ... 772 MHz 790 ... 822 MHz 838 ... 870 MHz
Schaltbandbreite	max. 32 MHz
Kanalanzahl	SKM 500: 16, SKM 300: 8; SKM 100: 4
Frequenzraster	25 kHz
HF-Leistung am Antennenausgang	30 mW, -3 dB
Modulationsart	FM
Nennhub bei 1 kHz NF	±24 kHz
Spitzenhub bei 1 kHz NF	±48 kHz

NF-TEIL

Kompondersystem	HDX
NF-Frequenzgang (bei 1 kHz)	100 Hz ... 16 kHz; -3dB
Klirrfaktor bei 1 kHz und Nennhub	< 0,9% (0,5%)
S/N Verhältnis (A-bewertet)	≥ 100 dB

ALLGEMEIN

Nennspannung	9 V
Betriebsspannung	6,0 ... 10 V
Stromverbrauch bei Nennspannung	≤ 56 mA (52 mA)
Ruhestromaufnahme	≤ 100 µA
Batterie	IEC 6 LR 61 (9V Block Alkaline)
Betriebsdauer	≥ 8 Stunden (Varta Nr. 4022 oder 8022)
Zulassung	D810 002L RF / FCC ID: DMOH1EURH

TECHNICAL DATA

(Values in brackets are typical values)

RF STAGE

RF Generation and control _____	Phase-Locked-Loop (PLL)-Synthesizer
Frequency ranges _____	518 ... 550 MHz 630 ... 662 MHz 740 ... 772 MHz 790 ... 822 MHz 838 ... 870 MHz
Switching bandwidth _____	max. 32 MHz
Quantity of channels _____	SKM 500: 16, SKM 300: 8; SKM 100: 4
Channel grid _____	25 kHz
RF Power at antenna output _____	30 mW, -3 dB
Modulation _____	FM
Nominal deviation at 1 kHz AF _____	±24 kHz
Peak deviation at 1 kHz AF _____	±48 kHz

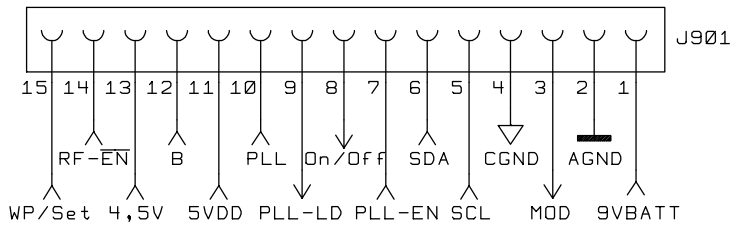
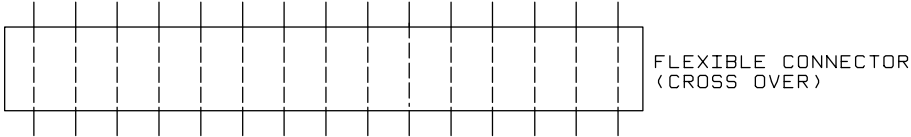
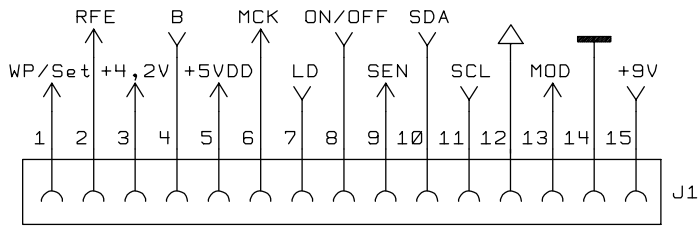
AF STAGE

Comander system _____	HDX
AF-Frequency response (Ref. 1 kHz) _____	100 Hz ... 16 kHz; -3dB
THD at 1 kHz and nominal deviation _____	< 0.9% (0.5%)
S/N A-weighted _____	≥ 100 dB

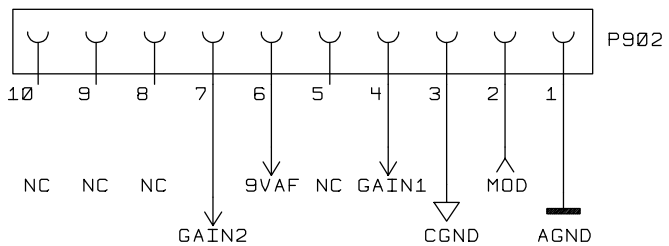
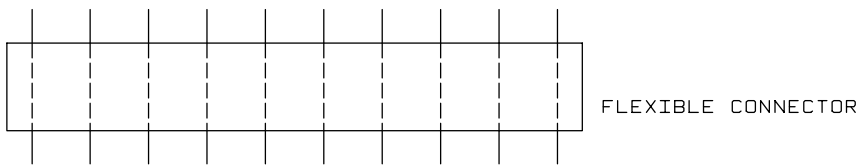
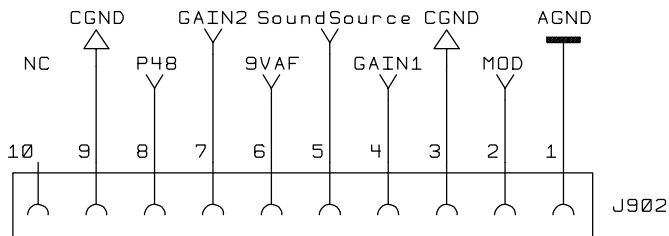
GENERAL

Nominal supply voltage _____	9 V
Operating voltage _____	6.0 ... 10 V
Current consumption at nominal voltage _____	≤ 56 mA (52 mA)
Stand-by current _____	≤ 100 μA
Battery _____	IEC 6 LR 61 (9V Block Alkaline)
Operating time _____	≥ 8 Hours (Varta No. 4022 or 8022)
Approbation _____	D810 002L RF / FCC ID: DMOH1EURH

RF MOD A022 DRAWING 79923



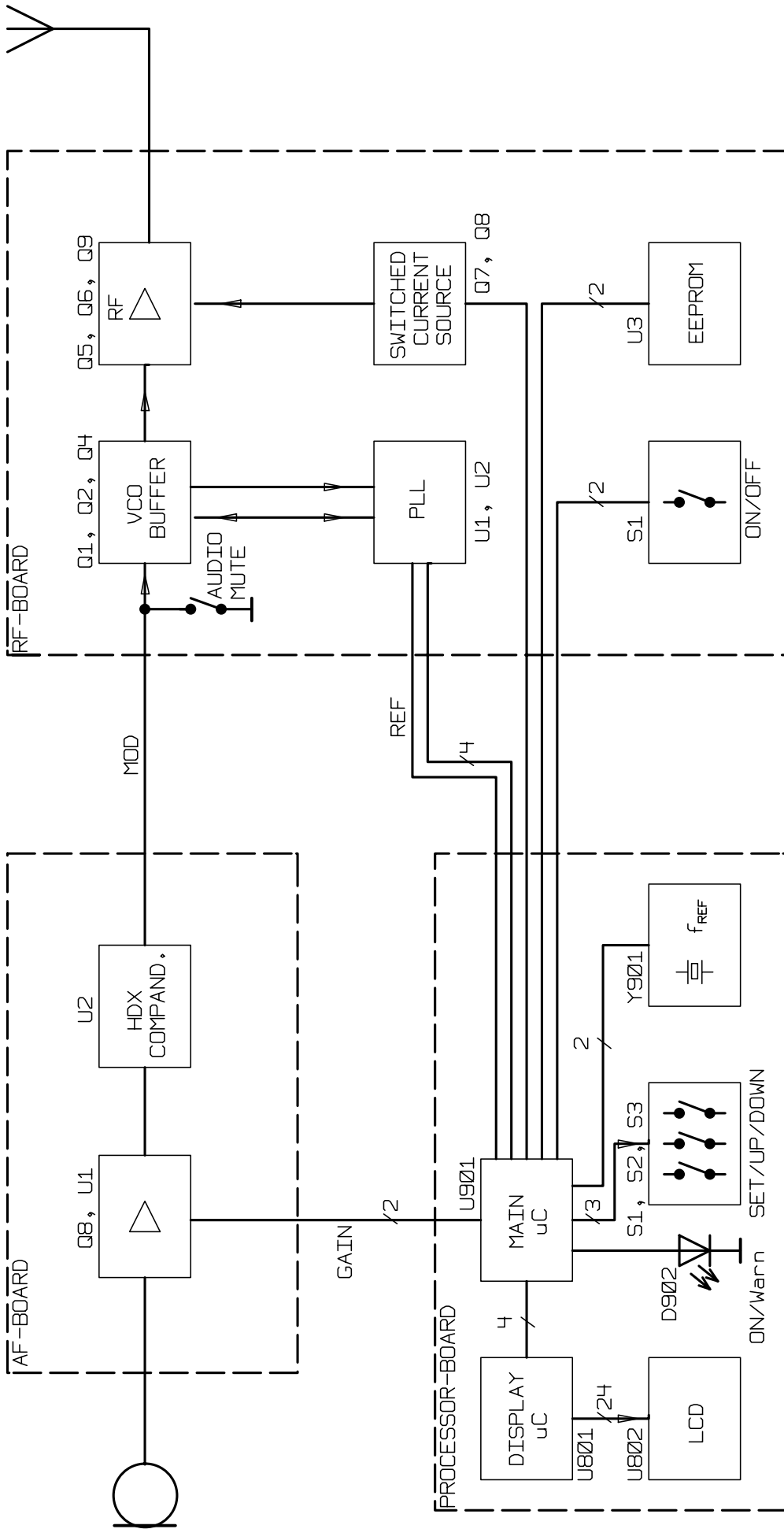
PROCESSOR MOD A023 DRAWING 79924



AF BOARD DRAWING 79960

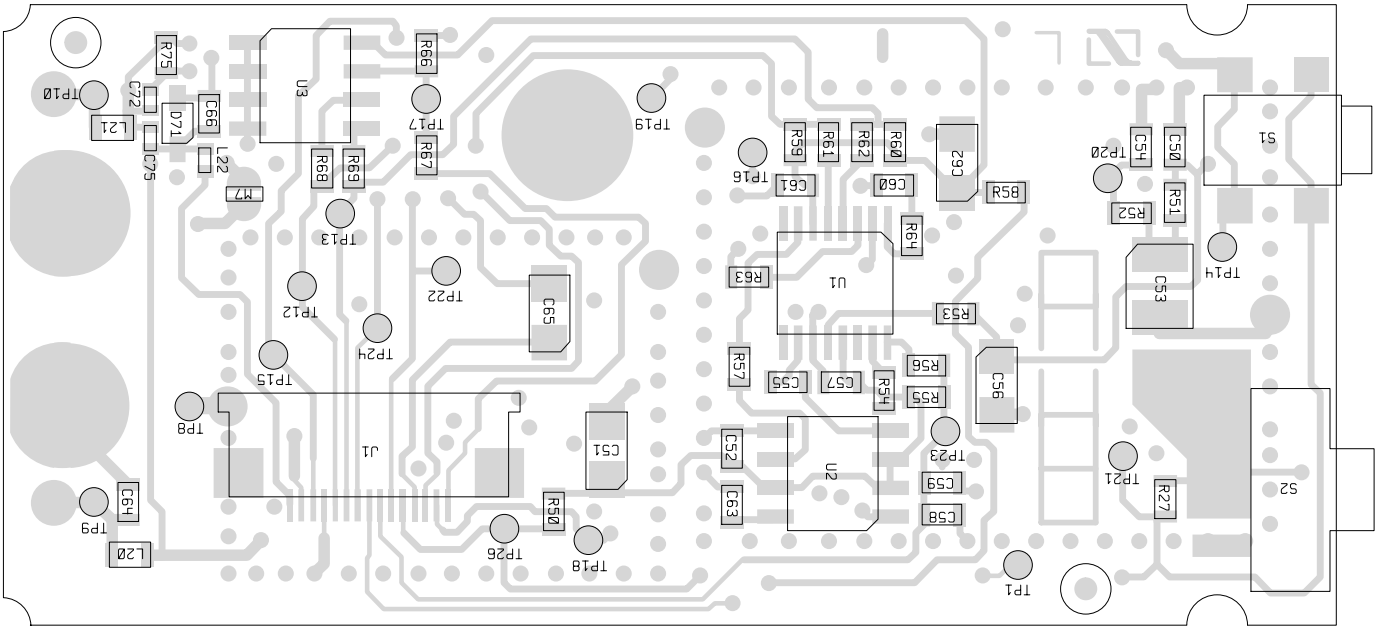
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SKM 100, SKM 300, SKM 500
SIGNALFLUSSZUWEISUNG
INTERCONNECTOR ASSIGNMENT

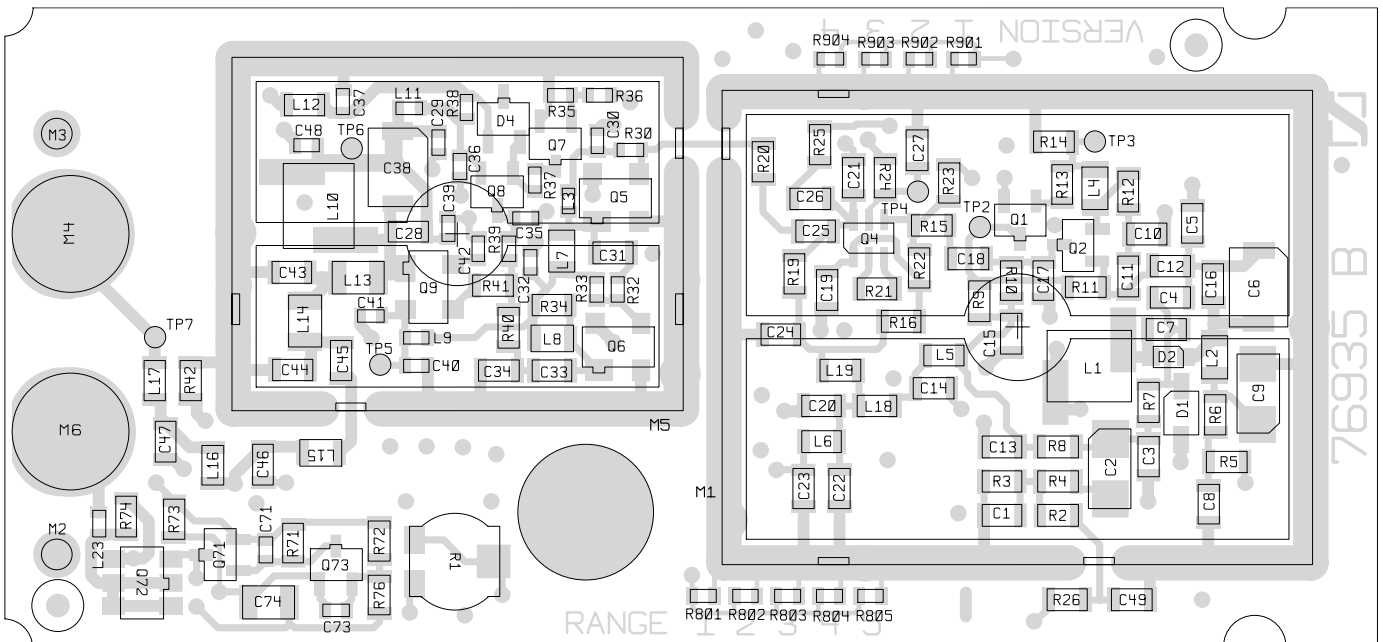


BLOCKDIAGRAM SKM 100 / 300 / 500

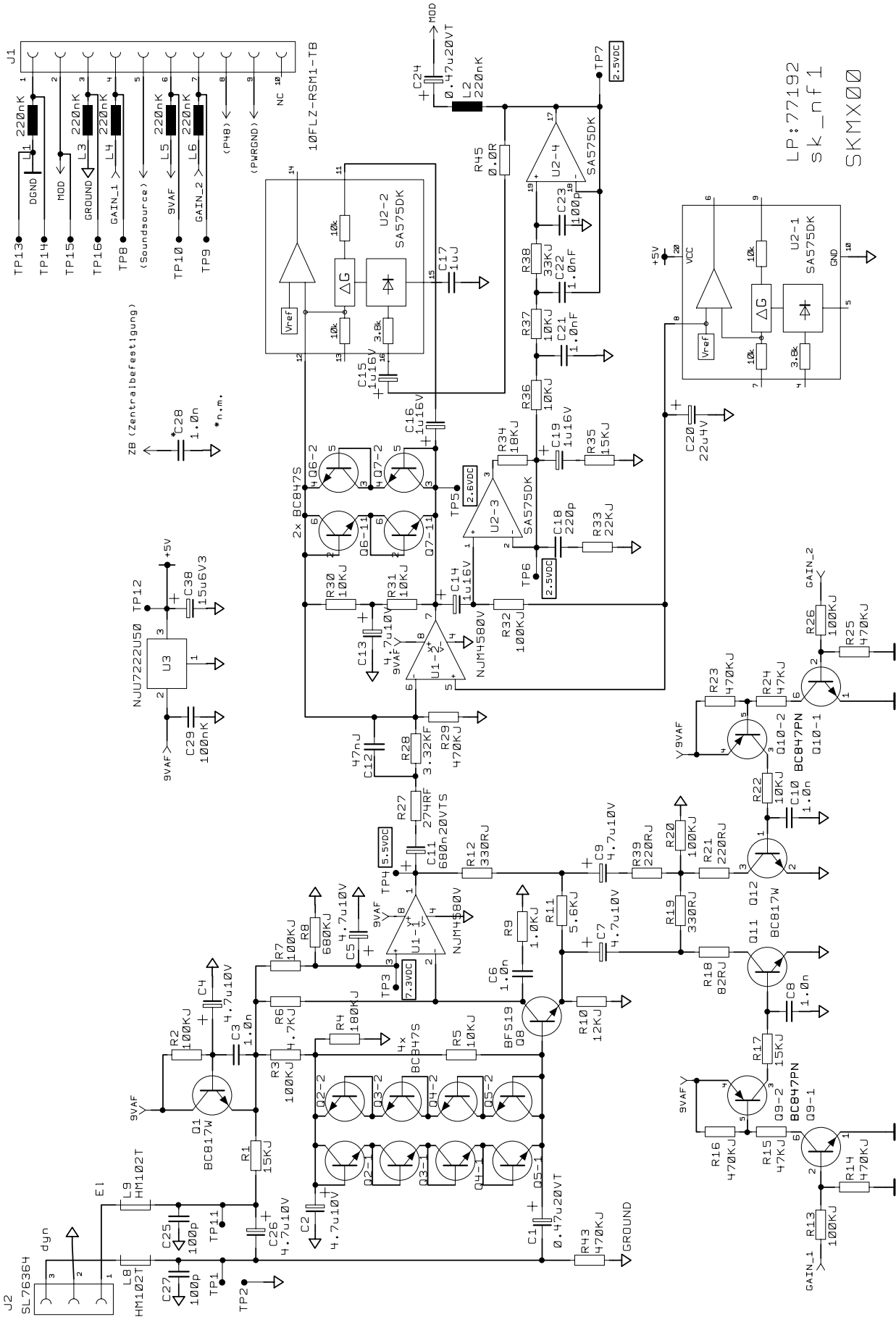
**SKM 100, SKM 300, SKM 500
HF-MODUL, BLOCKSCHALTBILD
RF MODULE, BLOCK DIAGRAM**



SKM 100, SKM 300, SKM 500
HF-MODUL, GEDRUCKTE SCHALTUNG, LÖTSEITE
RF MODULE, PRINTED CIRCUIT BOARD, SOLDER SIDE

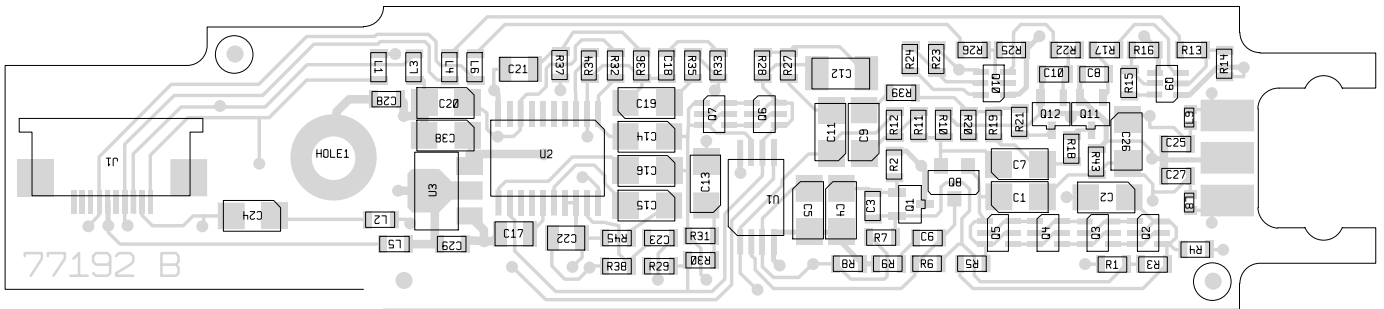


SKM 100, SKM 300, SKM 500
HF-MODUL, GEDRUCKTE SCHALTUNG, BESTÜCKUNGSSEITE
RF MODULE, PRINTED CIRCUIT BOARD, COMPONENT SIDE

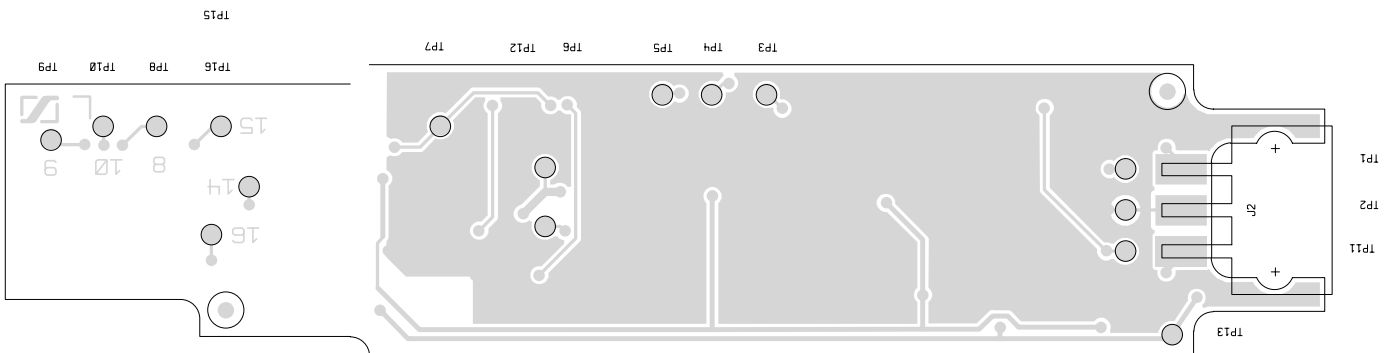


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SKMX00

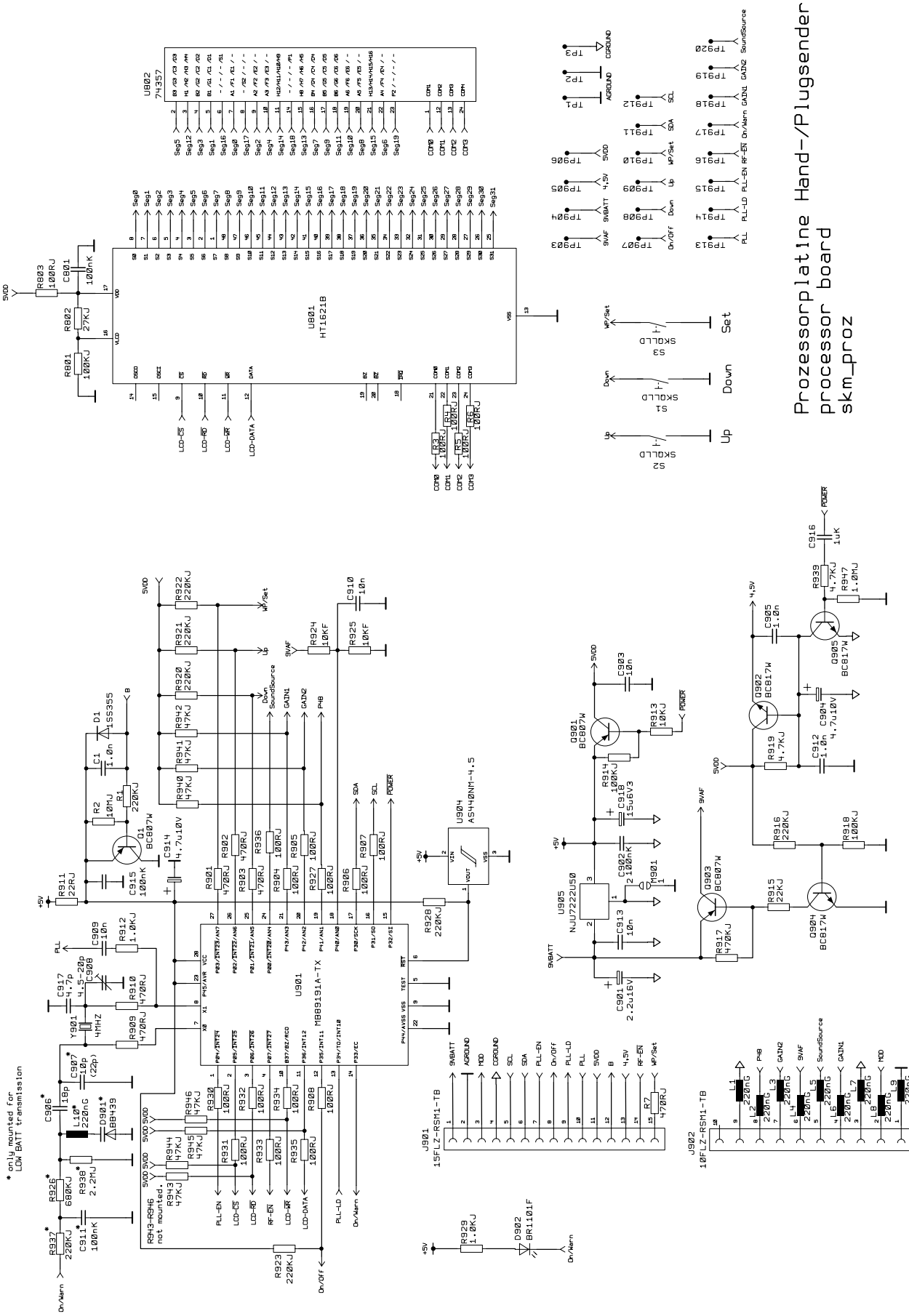
**SKM 100, SKM 300, SKM 500
NF-MODUL, STROMLAUFPLAN
AF MODULE, CIRCUIT DIAGRAM**



**SKM 100, SKM 300, SKM 500
 NF-MODUL, GEDRUCKTE SCHALTUNG, BESTÜCKUNGSSEITE
 AF MODULE, PRINTED CIRCUIT BOARD, COMPONENT SIDE**

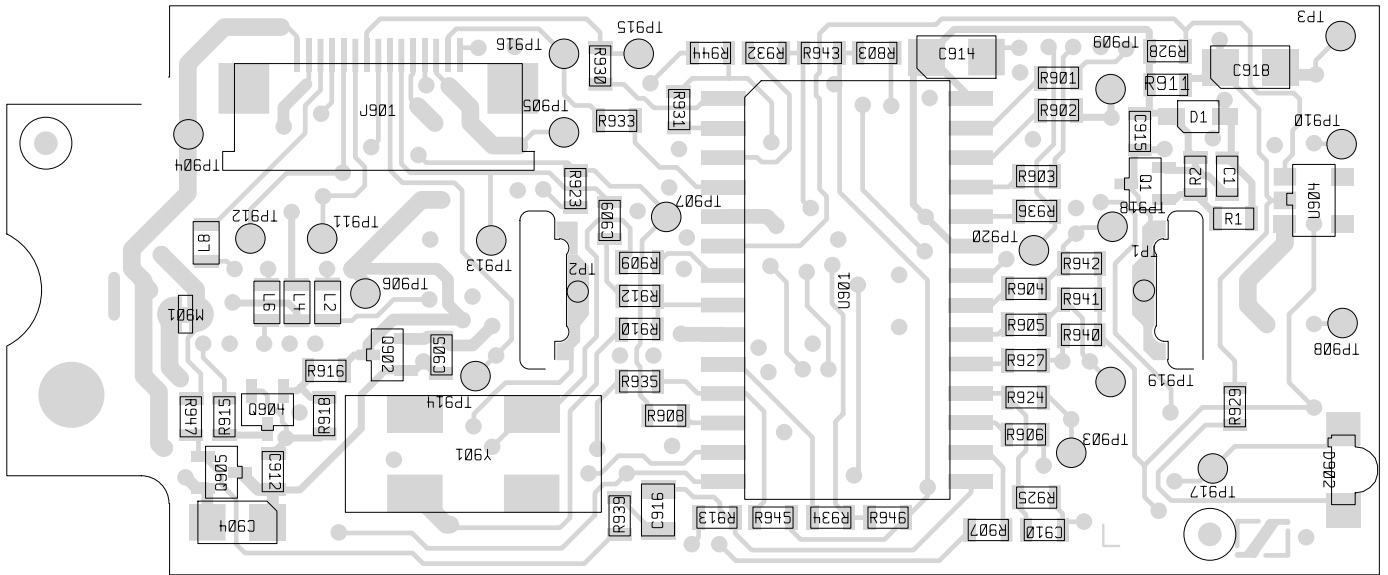


**SKM 100, SKM 300, SKM 500
 NF-MODUL, GEDRUCKTE SCHALTUNG, LÖTSEITE
 AF MODULE, PRINTED CIRCUIT BOARD, SOLDER SIDE**

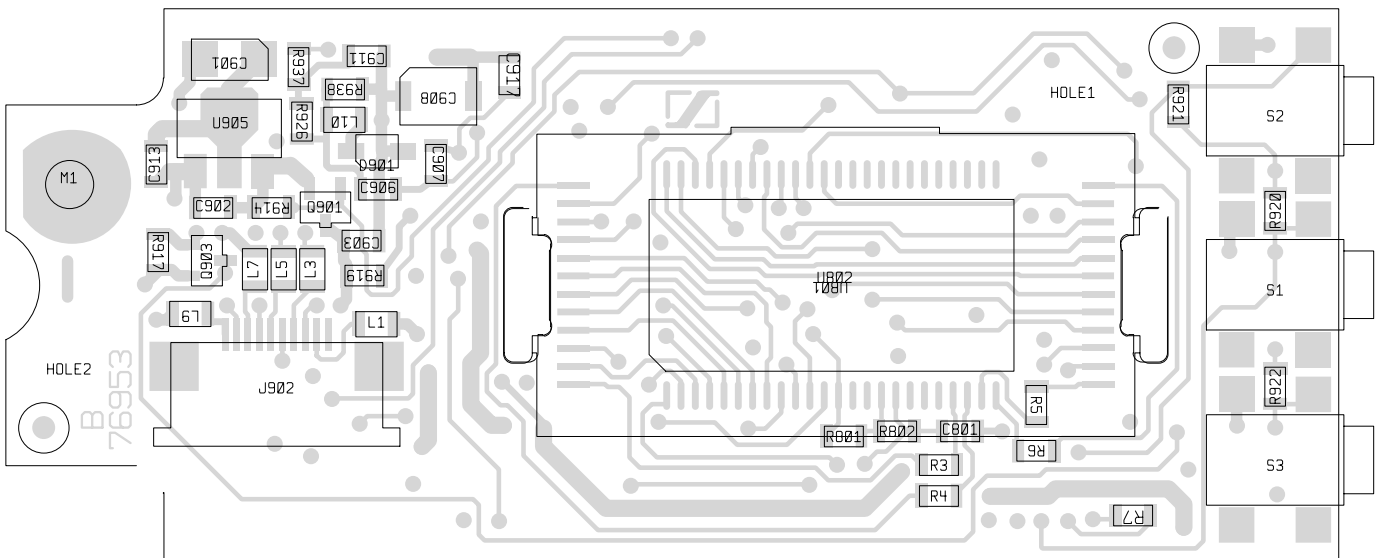


**SKM 100, SKM 300, SKM 500
PROZESSORPLATINE, STROMLAUFPLAN
PROCESSOR BOARD, CIRCUIT DIAGRAM**

Processorplatine Hand-/Plugsender
processor board
skm_proz



SKM 100, SKM 300, SKM 500
PROZESSORPLATINE, GEDRUCKTE SCHALTUNG, LÖTSEITE
PROCESSOR BOARD, PRINTED CIRCUIT BOARD, SOLDER SIDE



SKM 100, SKM 300, SKM 500
PROZESSORPLATINE, GEDRUCKTE SCHALTUNG, BESTÜCKUNGSSEITE
PROCESSOR BOARD, PRINTED CIRCUIT BOARD, COMPONENT SIDE

