

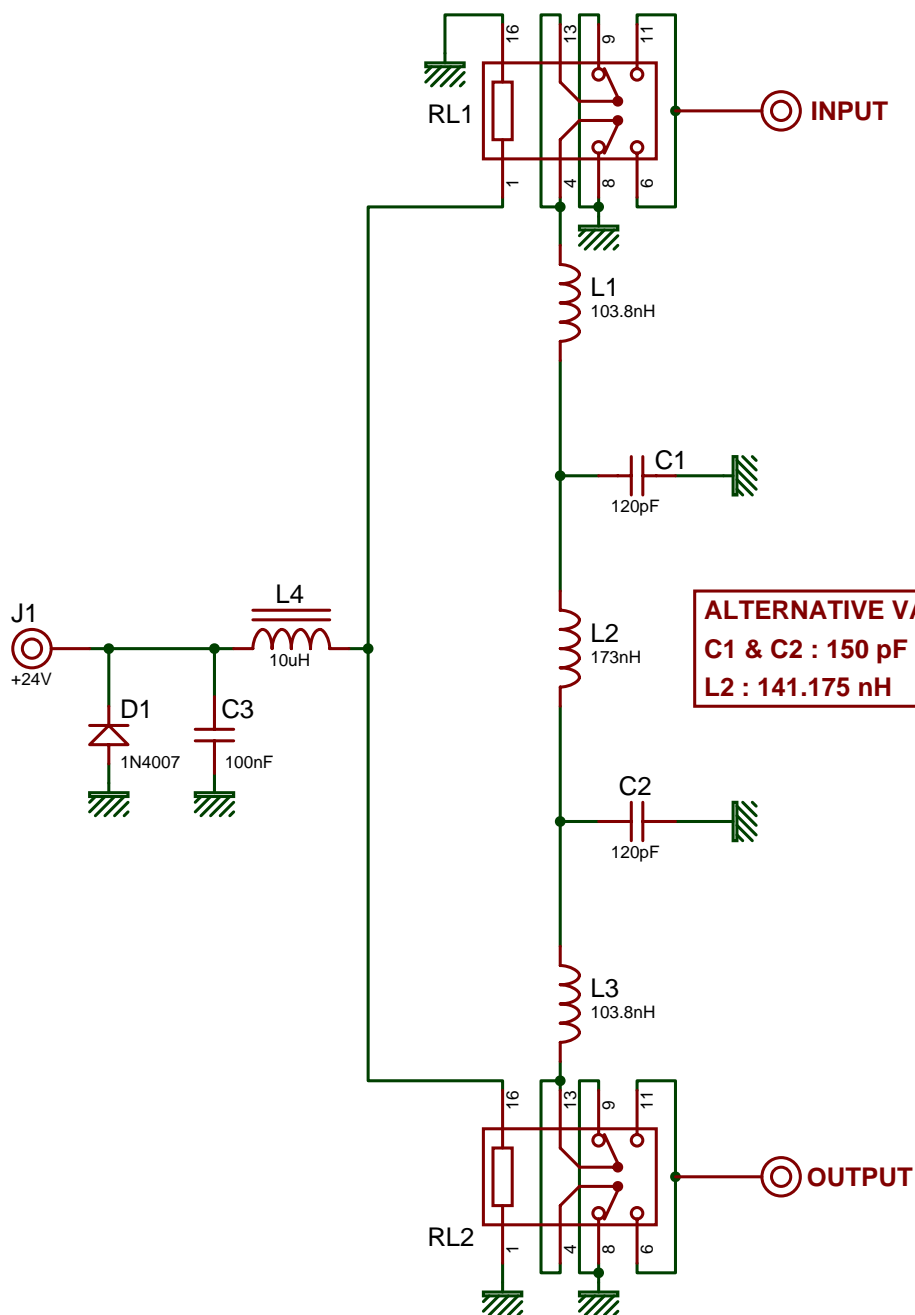
FILTERS FOR 1.2 KW HF SSPA

50 MHz LOW PASS

DOC N°: AMATEUR RADIO

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WITH A VNA, ADJUST COILS LENGTHS FOR DESIRED CURVE (MANDATORY).

FOR INFO: 1200 W @ 50 OHMS = ~350 V PEAK & 7 A~MPS PEAK

INSIDE FILTER, CAPACITORS MAX CURRENTS ~16 A PEAK & MAX VOLTAGES ~400 V PEAK
RF CAPACITORS: ATC 100-B EXTENDED VOLTAGE (1000 VOLTS)

INSIDE FILTER, COILS MAX CURRENTS ~7 A PEAK & MAX VOLTAGES ~400 V PEAK
COILS WIRES: OPTIMUM DIA. 20/10 mm (3.14 SQ.mm) ENAMELED, TINED, OR SILVER PLATED

RELAYS: SPDT MADE FOR 16 AMPS AC

OMRON G2RL-1-E, G2R-1-E, FINDER 40-61, OR EQUIVALENT.

USE PREFERABLY LOW PROFILE RELAYS TO MINIMIZE INDUCTANCES (BETTER SWR).

COIL 24 V DC (SAME AS OTHER SSPA BOARDS & ANTENNA RELAYS)

OR FOR 24 V SUPPLY & 12 V RELAYS, USE A SERIAL RESISTOR (USE OHM's LAW, IF YOU HEARD ABOUT IT)