

WITH A VNA, IF NECESSARY, ADJUST COILS LENGTHS FOR DESIRED CURVE

1200 W @ 50 OHMS = ~350 V PEAK & 7 A PEAK

INSIDE FILTER, MAX CURRENTS ~16 A PEAK & MAX VOLTAGES ~400 V PEAK

COILS WIRES: MINIMUM DIA. 20/10 mm (3.14 SQ.mm) ENAMELED, TINED, OR SILVER PLATED

COILS WIRES: OPTIMUM DIA. 2.86 mm (6.424 SQ.mm) ENAMELED, TINED, OR SILVER PLATED AWG 9

RF CAPACITORS: ATC 100-B EXTENDED VOLTAGE (1000 VOLTS)

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)

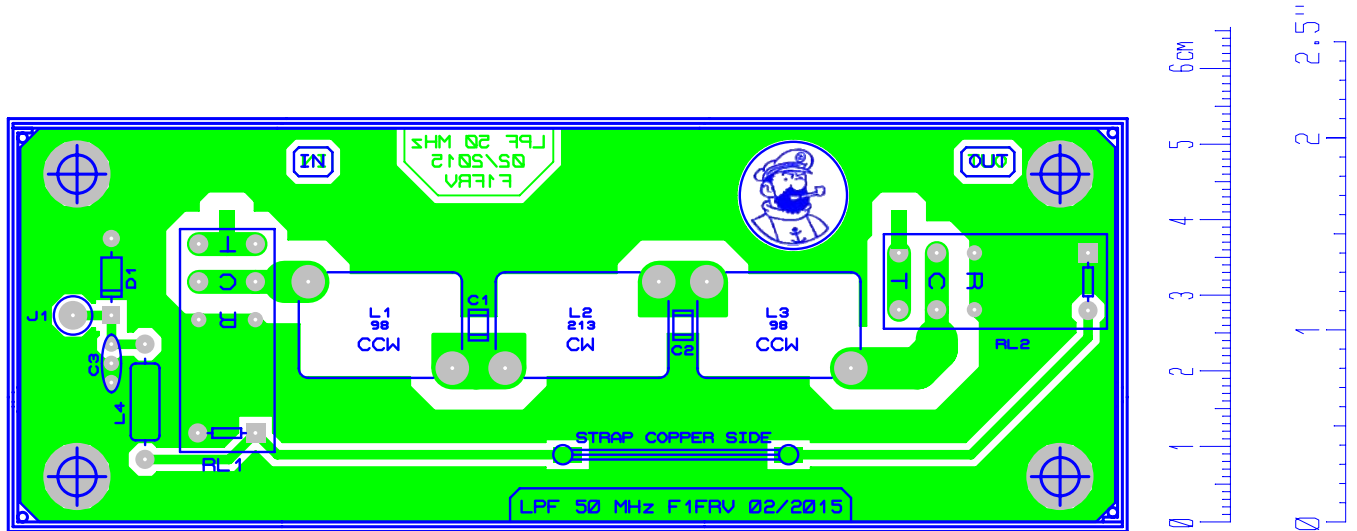
OR FOR 24 V SUPPLY & 12 V RELAYS, USE A SERIAL RESISTOR (USE OHM'S LAW, IF YOU HEARD ABOUT IT)

**FILTERS FOR 1.2 KW HF SSPA
50 MHz LOW PASS**

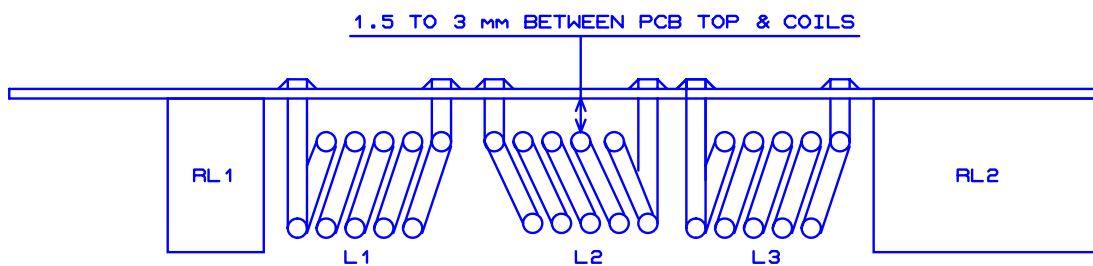
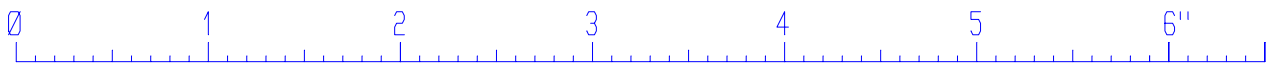
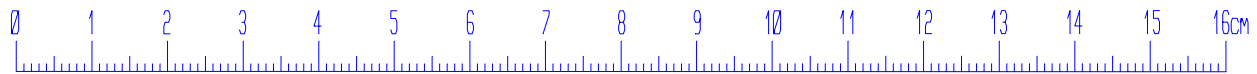
DATE: 02/2015 REV:0
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DOC N°: AMATEUR RADIO

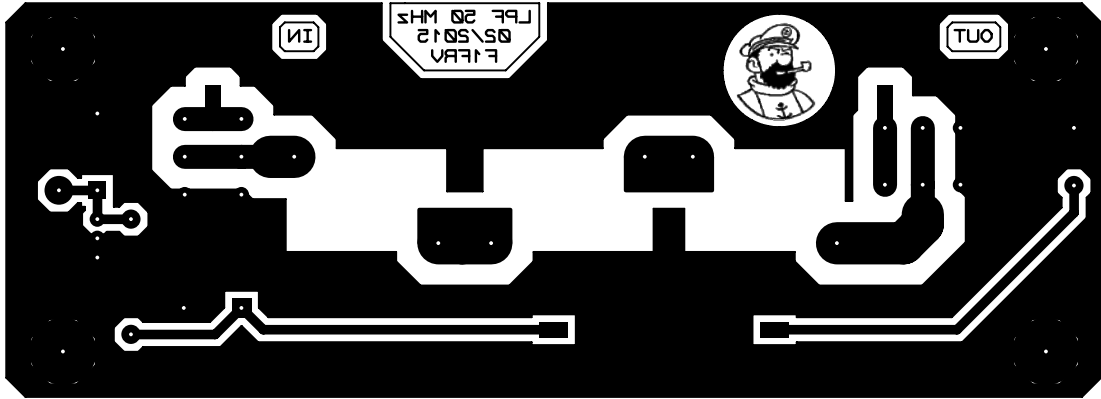
SINGLE SIDE PCB DIMENSIONS: 144.8 × 52.1 mm (5.7 × 2.05")
34 HOLES FIXATION: 4 × M4 SCREWS, AXYS 40 × 130 mm
PCB CAN BE PLACED INTO SCHUBERT TINY BOX 55 × 148 × 50 mm

NOTA: DUE TO VERY HIGH RF CURRENTS (~16 AMPS) INSIDE FILTER,
WHEN SOLDERING, PLACE MAXIMUM POSSIBLE SOLDER THICKNESS ON TRACKS



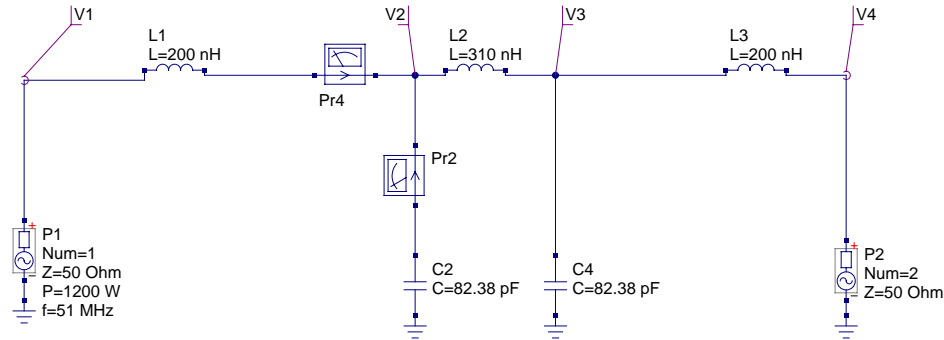
NOTA: BEFORE WINDING COILS, BE CAREFUL WITH WINDINGS DIRECTIONS





**simulation
en régime transitoire**

TR1
Type=lin
Start=0
Stop=5 us



**calcul
des paramètres s**

SP1
Type=log
Start=30MHz
Stop=160MHz

Équation
Eqn1
dB_S21=dB(S[2,1])
dB_S11=dB(S[1,1])

