

40 meter Bandpass Filter
 40m default configuration
 FL1, FL8 220 nH
 FL2, FL6 1000 pF COG 5% 100 Vdc
 FL3, FL7 1200 pF COG 5% 100 Vdc
 FL4 47 pF COG 5% 100 Vdc
 FL5 10 μH

 CBE 100 pF (40m)
 CEG 100 pF (40m)

Refer to test/trouble shoot voltage chart.

Voltages +/- 10%
 Measure DC voltage with the crystal removed, RF with 50 ohm load.

A 9V radio battery is NOT an adequate supply. A 9.6V lithium battery, such as those used with models Is.

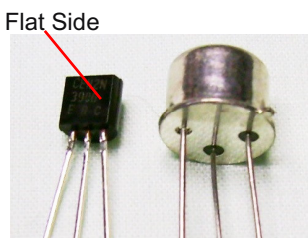
Note: This C value will put most parallel crystals close to the frequency marked on the can. Install a jumper if not wanted or needed.

V1 boards, a mod is needed to add the 22 pF cap to have the crystals close to marked value. Cut the trace between the crystal and junction of 82 pF and 2k2 resistor. Scrape the trace bare and tack the 22 pF cap to the trace ends..

***Offset "O"**
Key up, Q3 is OFF and the offset frequency is relative to the value of capacitor O. Select value for the desired offset frequency or optional VXO trimmer.

Key down, Q3 is ON and the crystal is effectively shorted to RF ground via the 0.1 uF cap and Q3. This is the fundamental transmit frequency.

** May be a house-marked version of the 2N3866



E B C PN2222
 C B E 2N3866

Sea Sprite Transceiver

W5USJ Drawing 9 May 2016