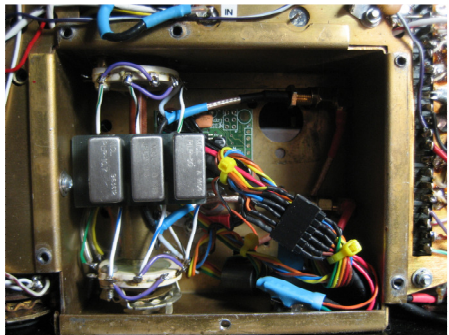
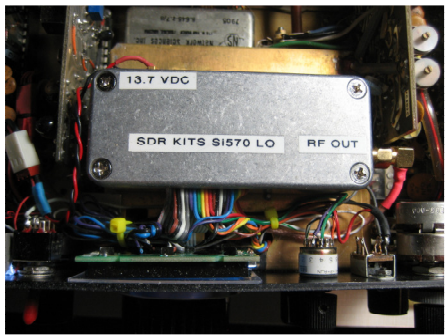
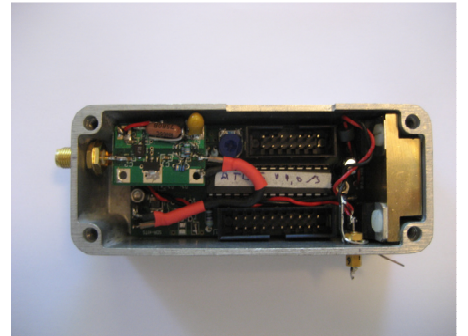
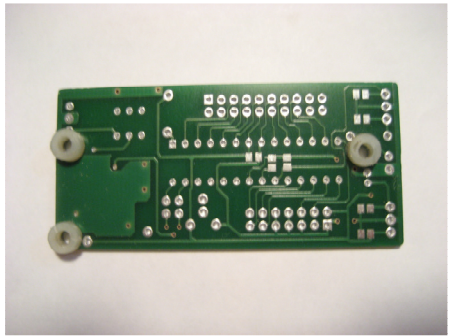
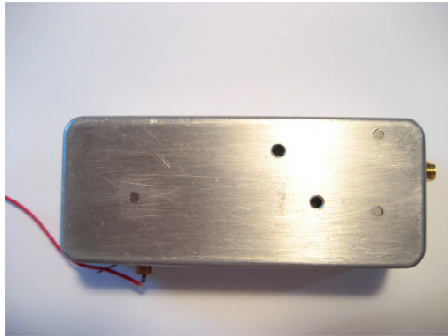
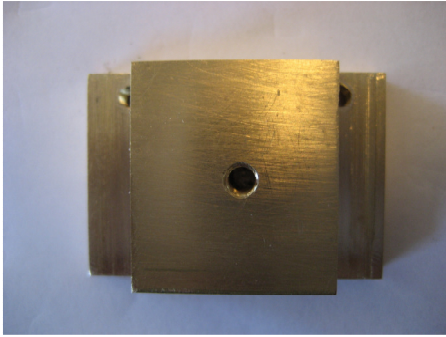
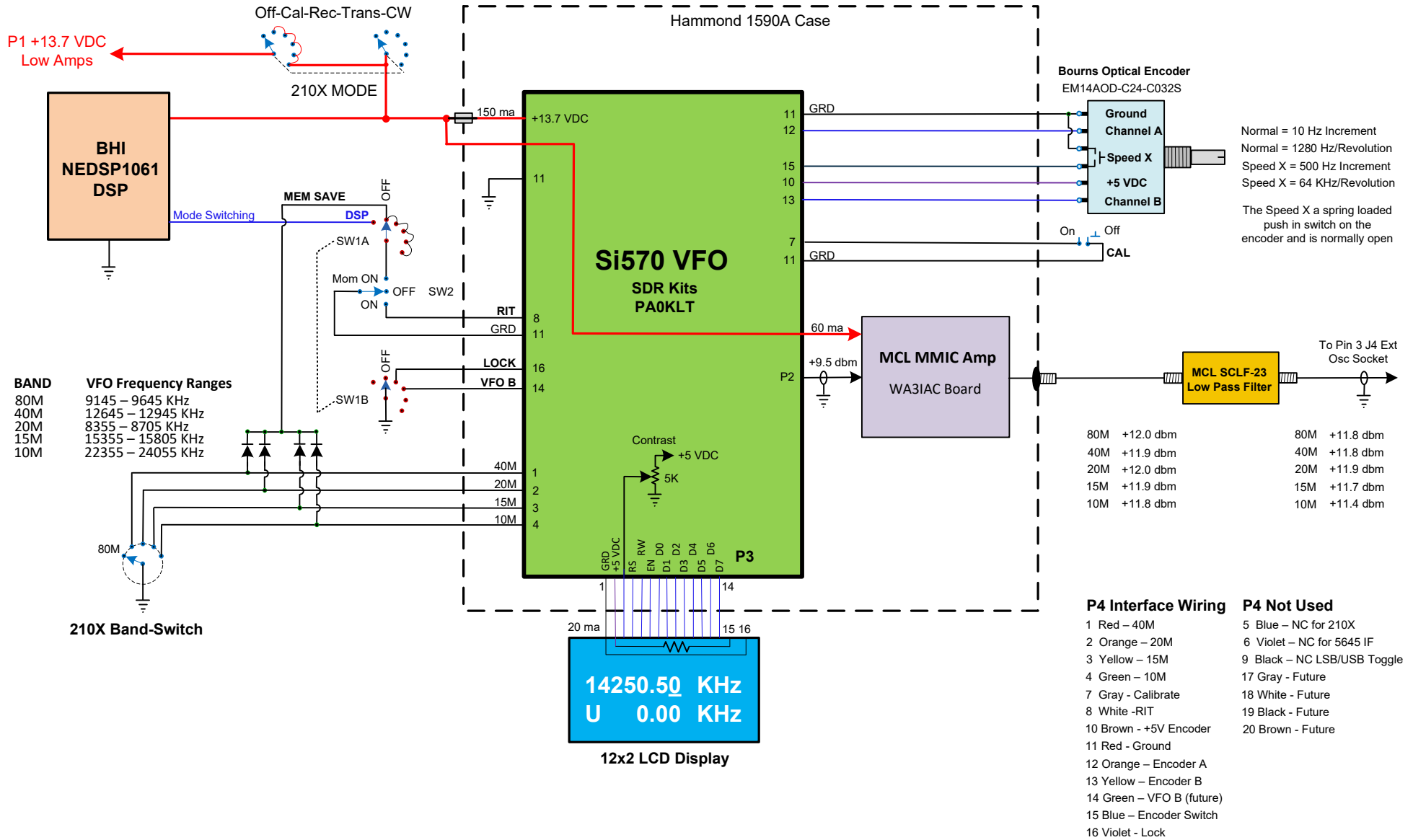


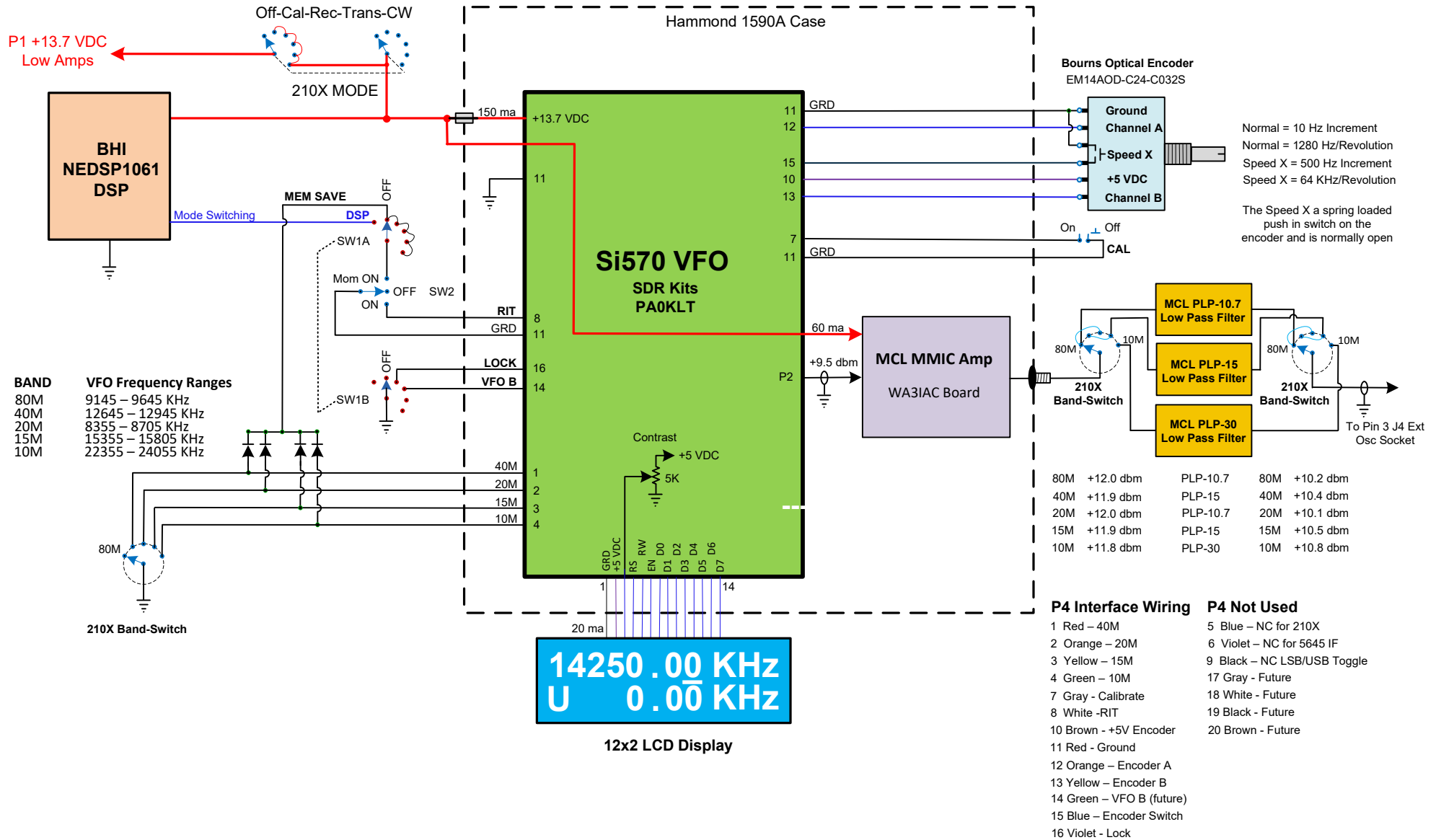
Si570 VFO MODULES



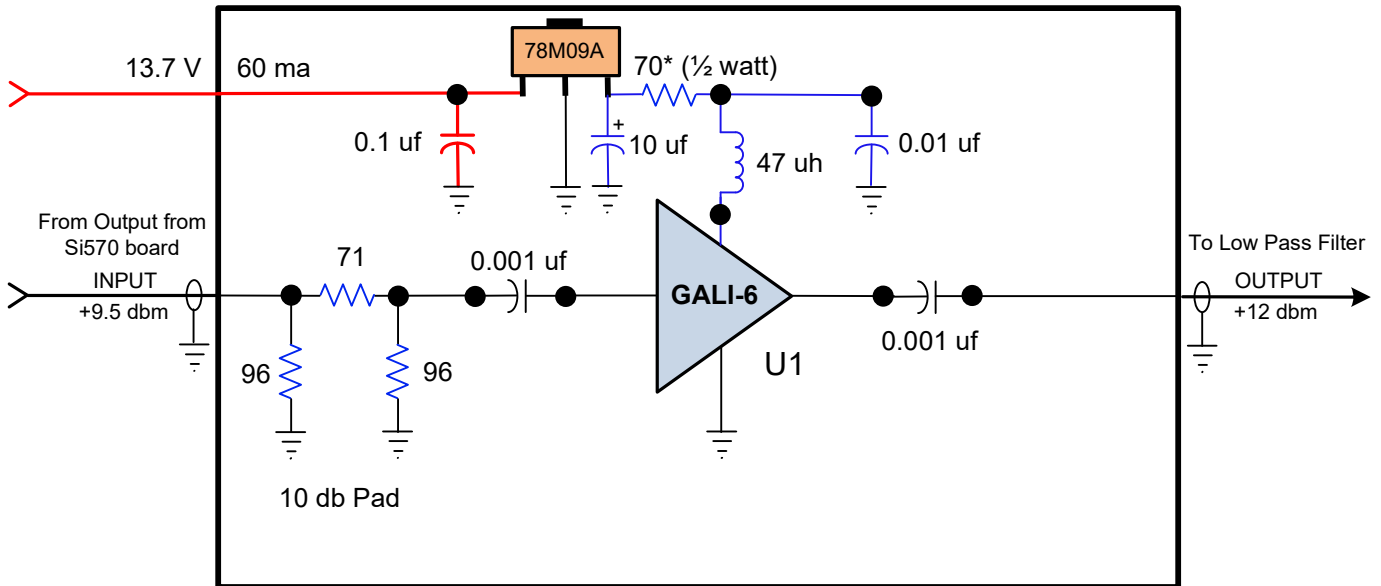
Si570 VFO Atlas 210X/215X



Si570 VFO Atlas 210X/215X



Mini Circuits Lab MMIC Amplifier



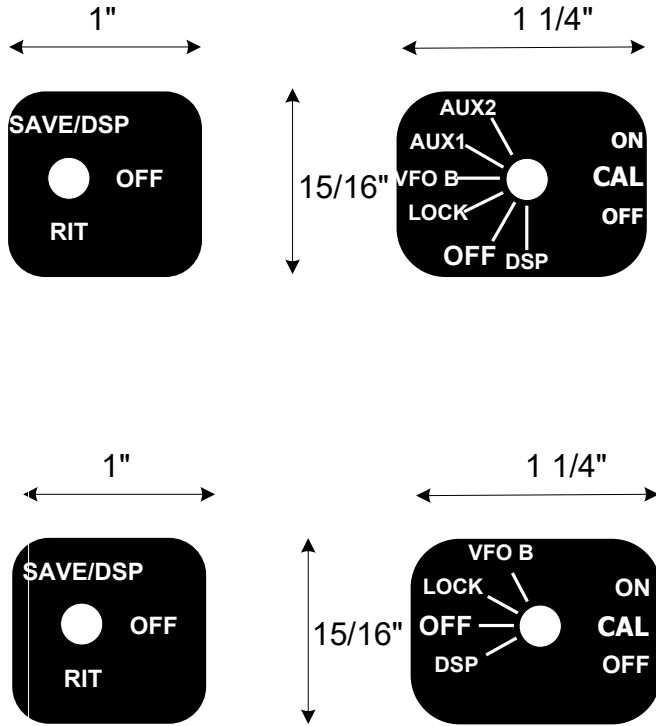
* adjust value for 60 – 70 ma of current

<https://www.minicircuits.com/pdfs/GALI-6+.pdf>

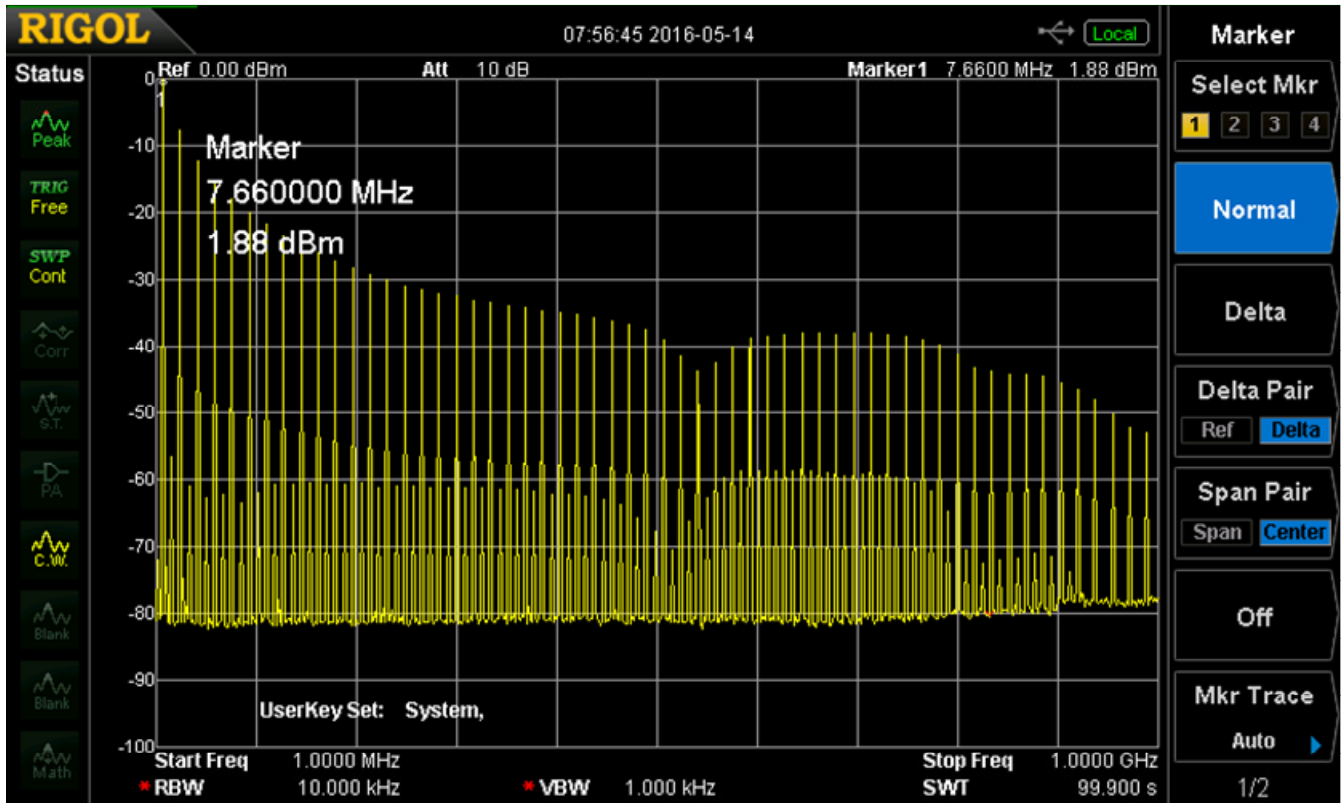
MMIC board available from WA3IAC

MMIC board available from RFExtra on eBay

ATLAS FRONT PANEL OVERLAY PLATES



Si570 Output Signal No Output Filtering

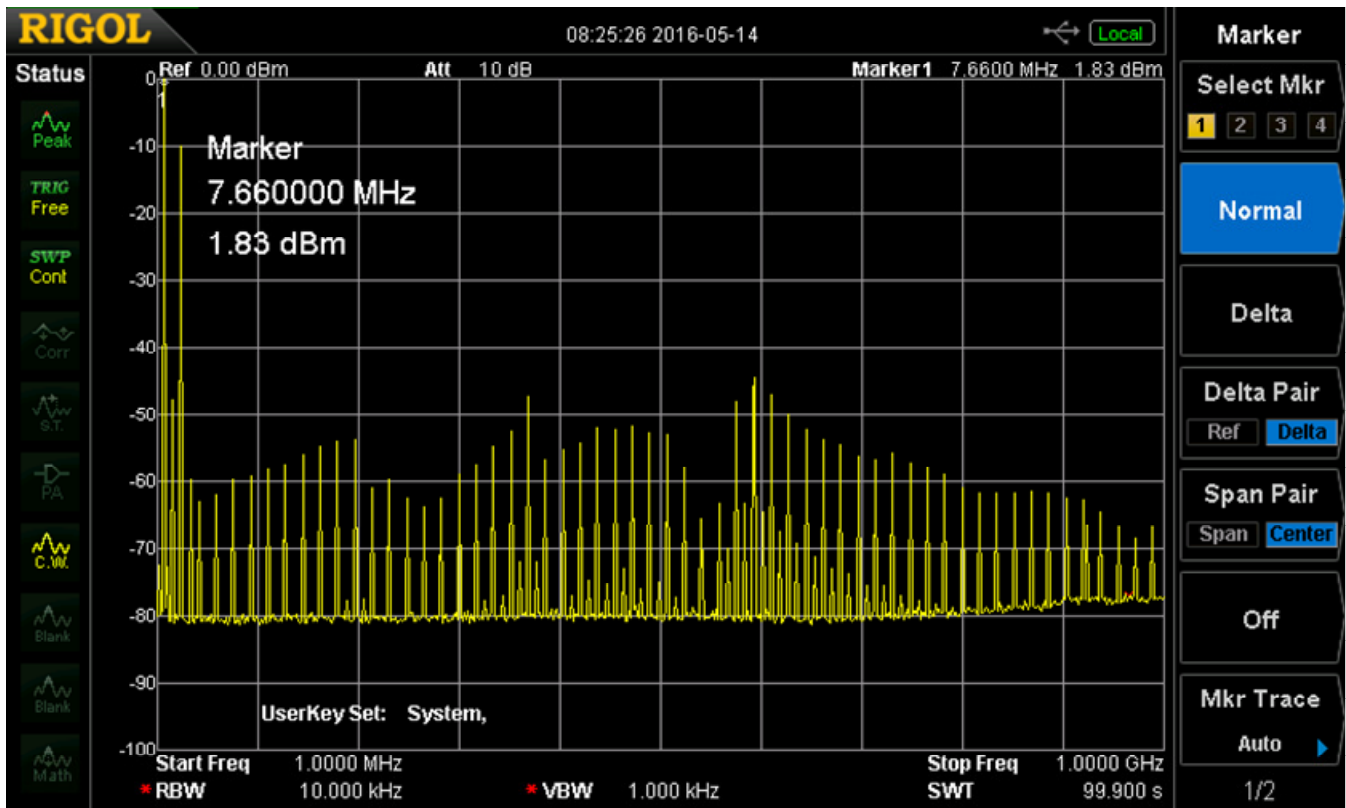


20M Fundamental

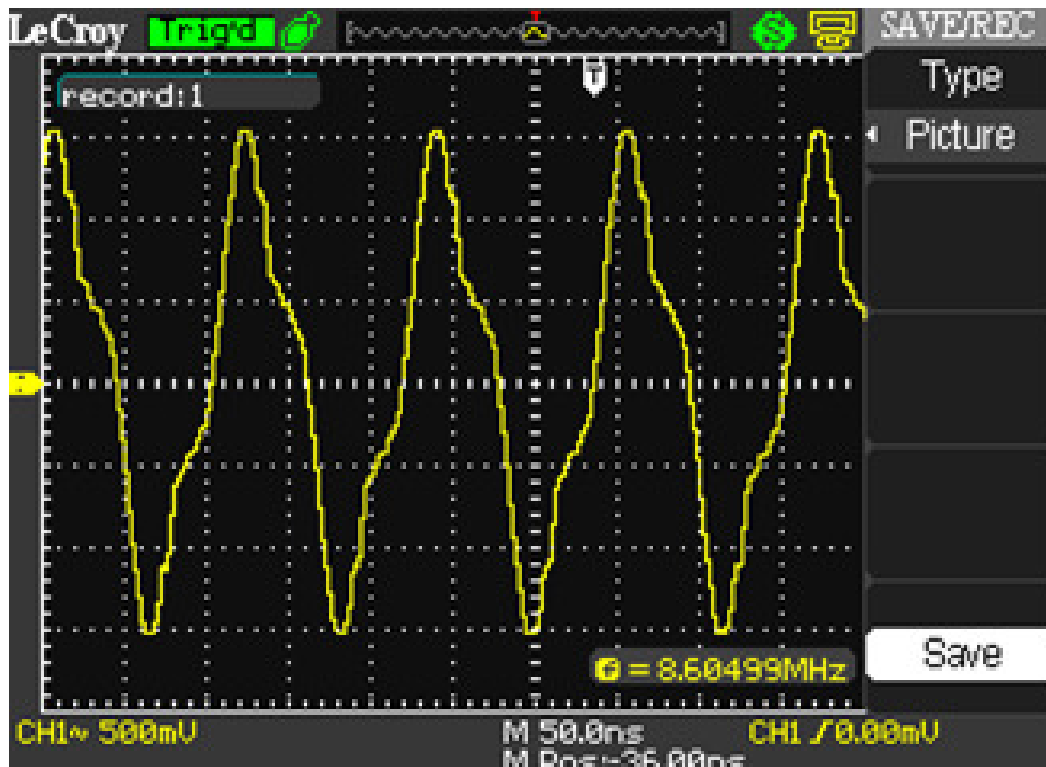


20M Waveform

Si570 Output Signal SCLF-23 LPF

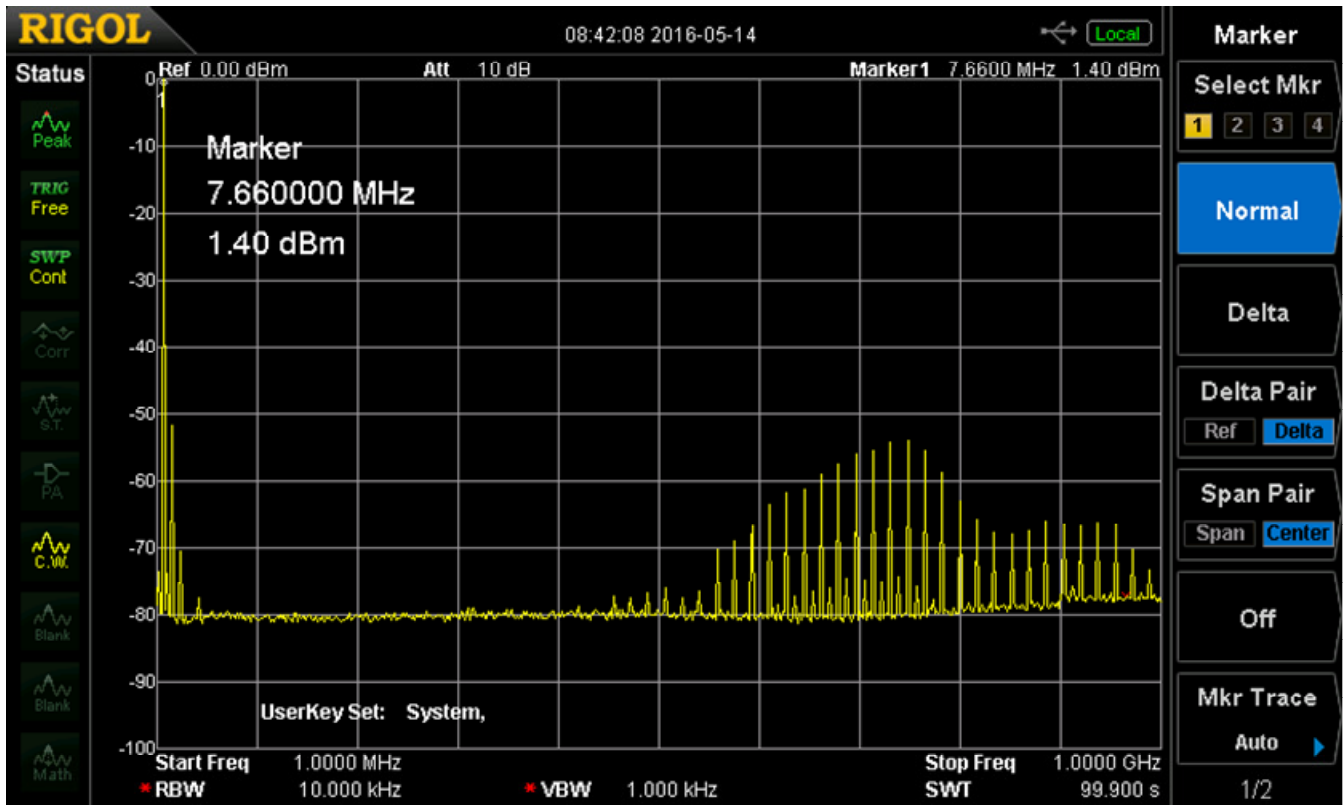


20M Fundamental

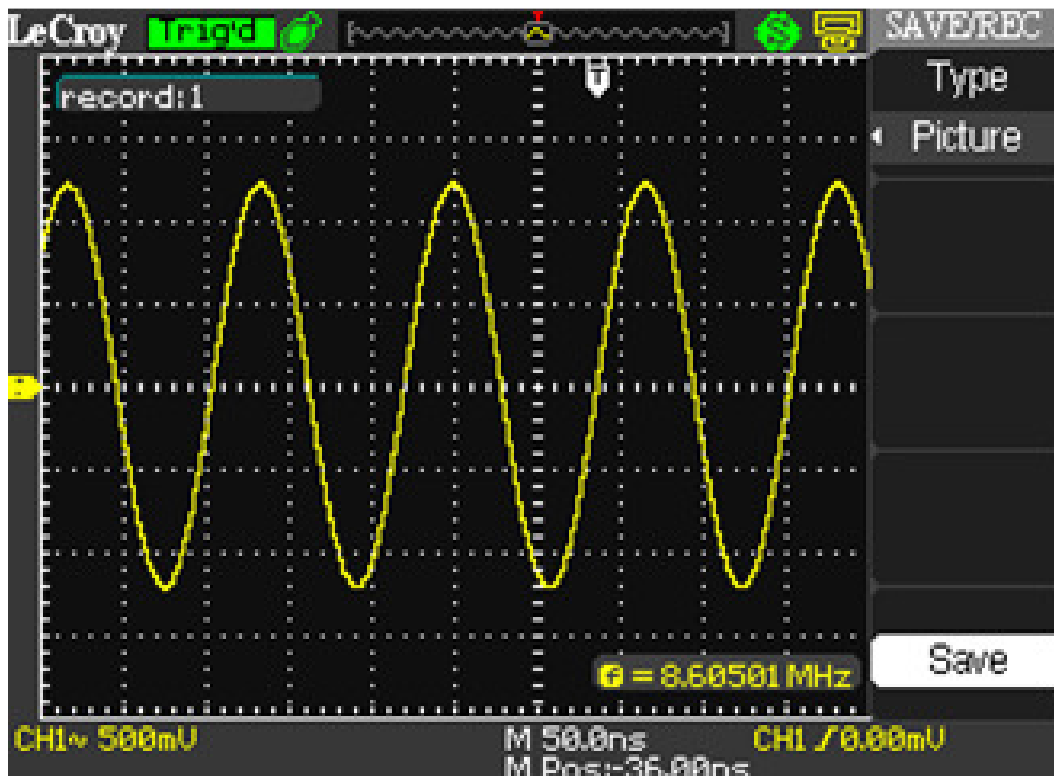


20M
Waveform

Si570 Output Signal PLP-10.7 LPF



20M Fundamental



20M Waveform

TYPICAL 8X2 LCD DISPLAYS

14250 .00
U 0.00

Normal Display
10 Hz Frequency Step
Upper Sideband

14250 .00
L 0.00

Normal Display
10 Hz Frequency Step
Lower Sideband

14250 .00
U 0.00

Normal Display
500 Hz Frequency Step
Upper Sideband

14250 .00
U R 0.00

Normal Display
10 Hz Frequency Step
Upper Sideband
RIT Enabled – No Offset

14250 .00
U R+1.00

Normal Display
10 Hz Frequency Step
Upper Sideband
RIT Enabled – +1 KHz Offset

14250 .00
11424236

Calibrate Mode
10 Hz Frequency Step

14250 .00
Stored

Calibrate Save

15000 .00
U 0.00

VFO B – 20M Band
15 MHz WWV

TYPICAL 12X2 LCD DISPLAYS

14250 .00 KHz
U 0.00 KHz

Normal Display
10 Hz Frequency Step
Upper Sideband

14250 .00 KHz
L 0.00 KHz

Normal Display
10 Hz Frequency Step
Lower Sideband

14250 .00 KHz
U 0.00 KHz

Normal Display
500 Hz Frequency Step
Upper Sideband

14250 .00 KHz
U R 0.00 KHz

Normal Display
10 Hz Frequency Step
Upper Sideband
RIT Enabled – No Offset

14251 .00 KHz
U R+1.00 KHz

Normal Display
10 Hz Frequency Step
Upper Sideband
RIT Enabled – +1 KHz Offset

14250 .00 KHz
114242368 Hz

Calibrate Mode
10 Hz Frequency Step

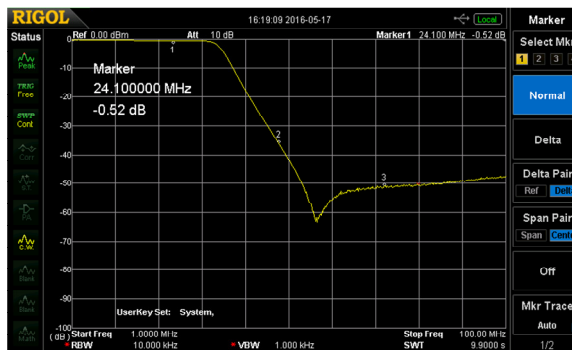
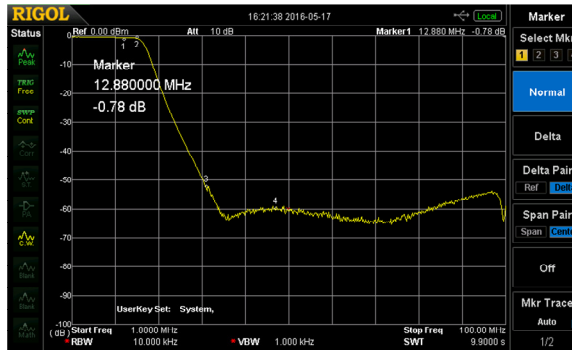
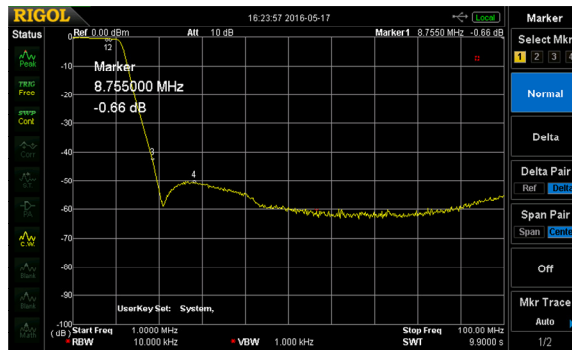
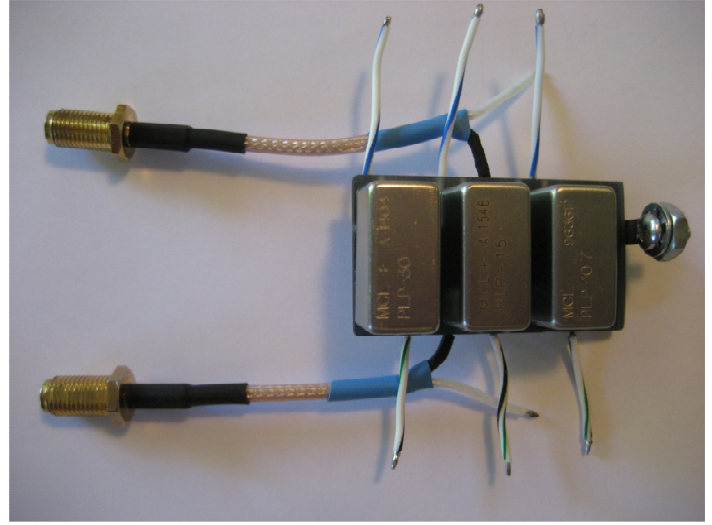
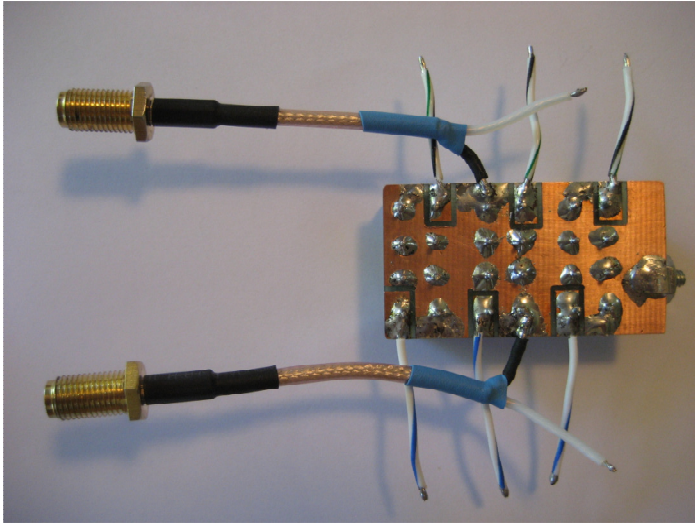
14250 .00 KHz
Stored

Calibrate Save

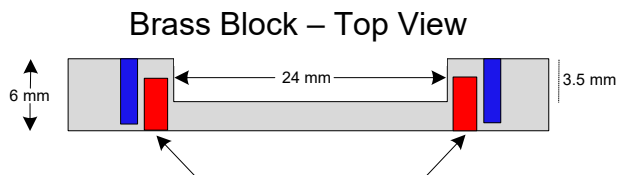
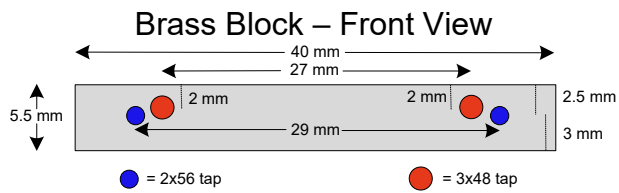
15000 .00 KHz
U 0.00 KHz

VFO B – 20M Band
15 MHz WWV

MCL Low Pass Filters PLP Series

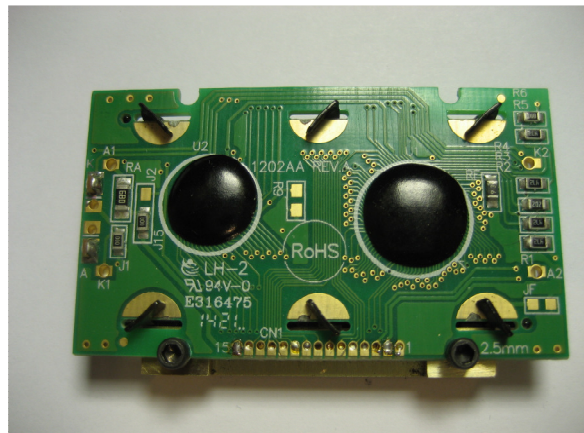


12x2 LCD Display Mounting Hardware

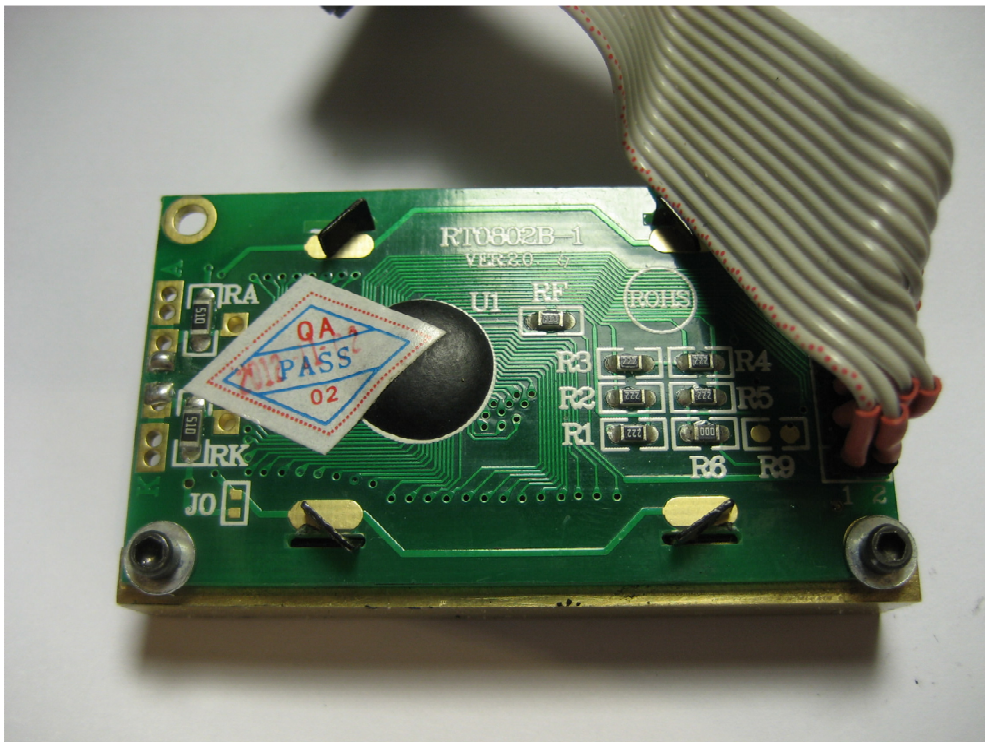
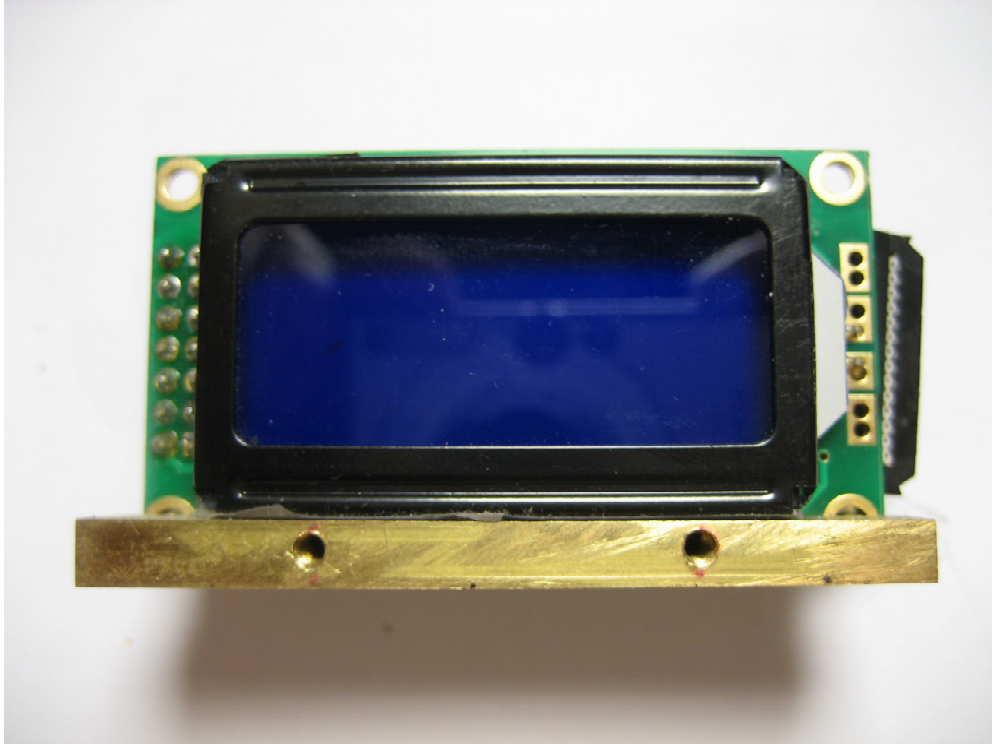


Clear Plastic Window
27x54x0.75 mm

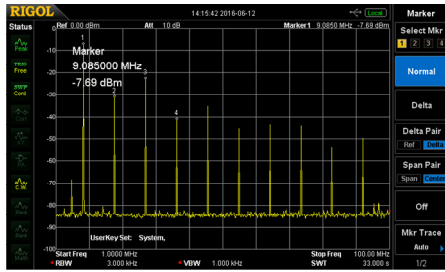
Hobby Lobby
Green Tree Gallery
Glazing and Backing



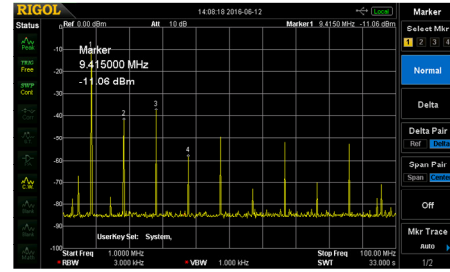
8x2 LCD Display Mounting Hardware



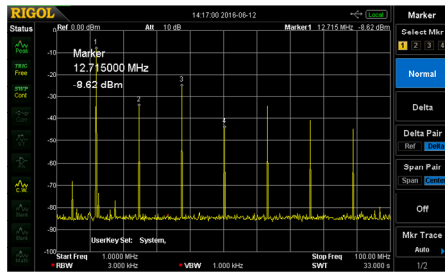
Harmonics By Band Factory VFO vs Si570



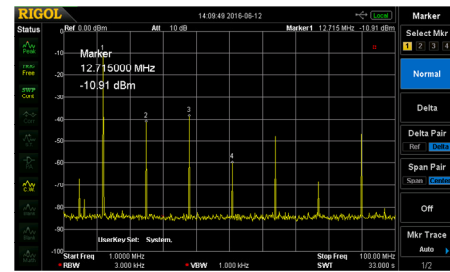
80 Meters
Factory VFO



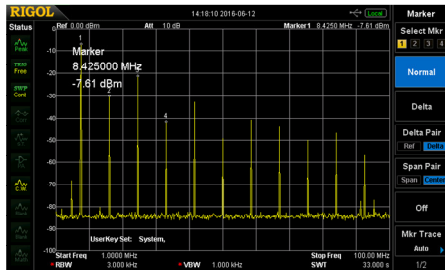
80 Meters
Si570 VFO



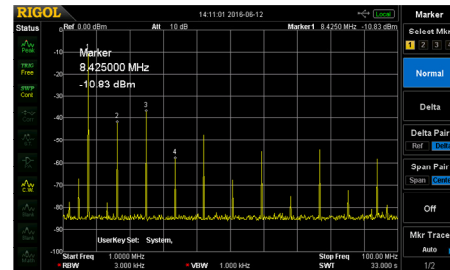
40 Meters
Factory VFO



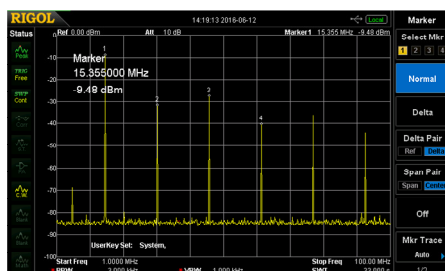
40 Meters
Si570 VFO



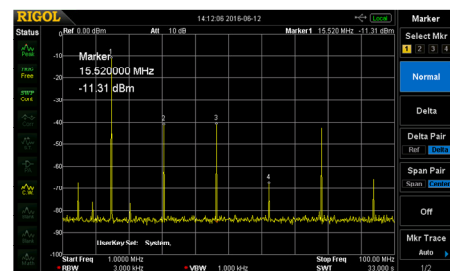
20 Meters
Factory VFO



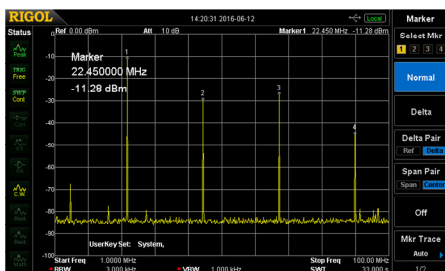
20 Meters
Si570 VFO



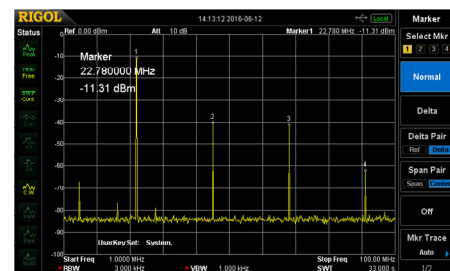
15 Meters
Factory VFO



15 Meters
Si570 VFO



10 Meters
Factory VFO



10 Meters
Si570 VFO

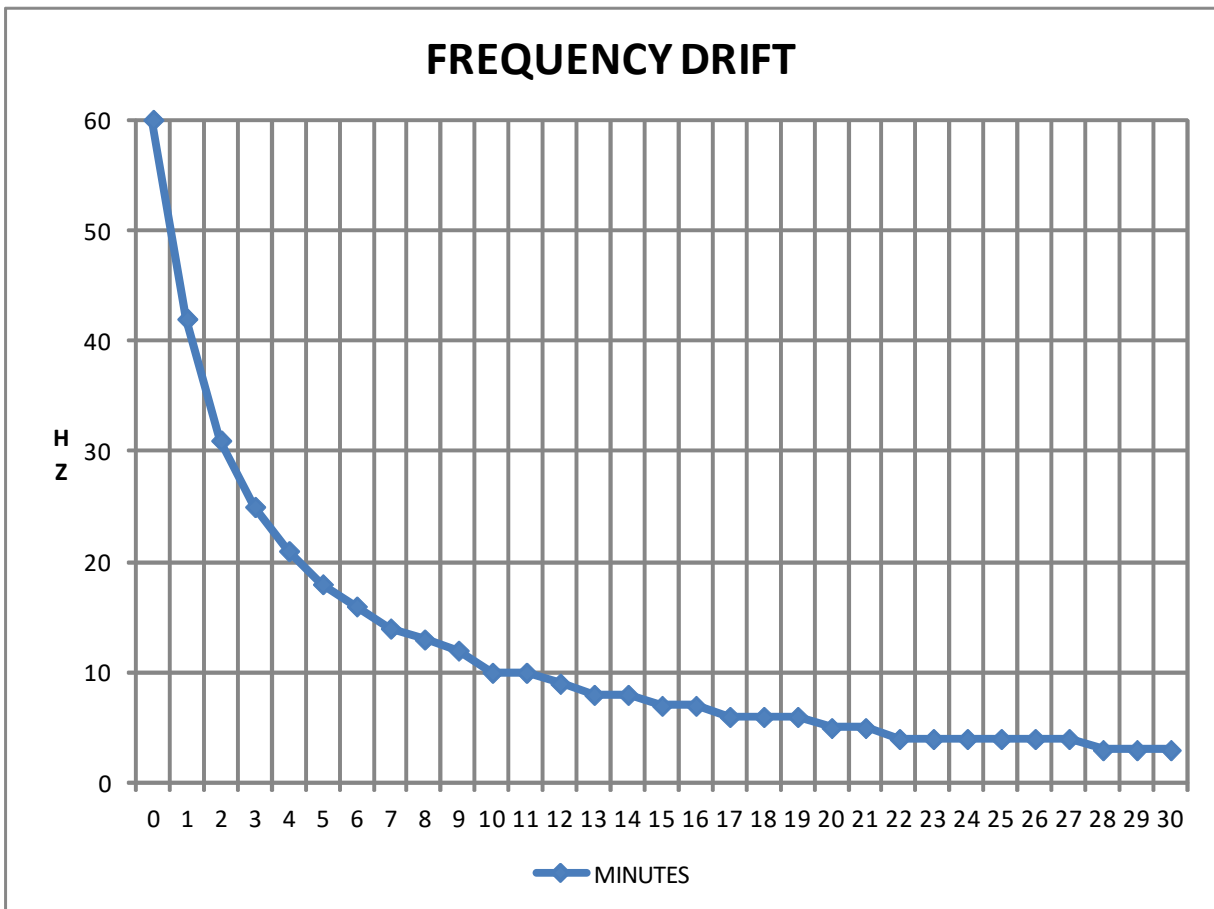
Si570 VFO Warmup Drift

Calibrate at 40M

80M	-1.5 HZ
40M	0.0 HZ
20M	+1.5 HZ
15M	-1.0 HZ
10M	+6.0 HZ

Calibrate at 10M

80M	-4.0 HZ
40M	-3.0 HZ
20M	-1.5 HZ
15M	-5.0 HZ
10M	+0.0 HZ



NOTES:

Unit calibrated on 40M band @ 7200 KHz (12845 KHz LO)

Unit powered on and frequency offset measured from 12845 KHz

Frequency offset measured in 1 minute intervals

Frequency offset after 12 hours 0 HZ

Ambient room temperature was 78 degrees F