OpenQRP 40 Meter Transceiver Specifications

- Single Band : 40 meters (other bands with component changes)
- Tuning range: 60KHz minimum via varactor diode
- Tuning Control 10K 10 turn potentiometer
- Receiver Incremental Tuning, Fine Tune Option
- Mode: CW only
- Receiver MSD: TBD uV
- Four crystal IF filter with 690 Hz center frequency
- IF Selectivity: 400 Hz
- 4 pole audio active bandpass filter
- Receive current: Active: 50 ma No signal: 30 ma
- Transmitter: Final Amplifier IRF510 MOSFET, 6-8 watts output at 13.5 volts
- Transmitter current: 1.100 A (40 M) at 8 watts.
- Spurs: TBD dBc maximum
- CPU: ATmega168 @ 16.384 MHz based on Arduino microcontroller platform
- Open source software, written entirely in ‘C’
- In-circuit programming (ICSP)
- 5 to 55 wpm internal iambic keyer, Iambic A and B, keyer emulation modes
- Six message memory slots
- Six Pushbutton inputs
- 16 character by 2 line LCD display
- Frequency readout 100Hz resolution
- Relative signal strength indicator
- Built in CW decoder
- Power supply voltage readout
- Front panel controls: Tune, RIT, and RF gain
- On board trimmers: AF gain trim, LCD Contrast trim, Tx Drive adjust
- Coax 50 ohm output, modular BNC jack
- 1/8” Jack inputs for Iambic Paddle and Audio output (stereo headphones)
- 2.5mm Power Supply jack
- PC Board Size: 4.5” wide X 5.0” deep
- Painted Aluminum Enclosure with silkscreened legends
- Power supply voltage: 9 volts minimum, 16 volts maximum.