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I use your original “Red Board” IQ-VFO in conjunction with my homebrew Rick Campbell, KK7B, design R2/T2 direct conversion single signal phasing type receiver and transmitter. The VFO uses a THS6012 amplifier designed by 4Z4ME. I incorporated I/Q inputs and outputs to the R2 and T2 that allows the rig to function as a Software Defined Radio (SDR) or as a standalone SSB/CW transceiver with 10 watts output. The transceiver is now being used a few hours each day in Weak Signal Propagation Reporter (WSPR) mode. WSPR is a program developed by Joe Taylor, K1JT, that implements transmitting and receiving for a digital soundcard mode usable with extremely weak signals. I use an external step attenuator between the T2 and final amplifier to adjust my output between 1 mW and 1 W for use in this mode. Additional information is found at:

<http://physics.princeton.edu/pulsar/K1JT/>

<http://wsprnet.org/drupal/>

73, Gene W3PM GM4YRE