



DEM MINI2304 Low Power Transverter

The DEM MINI2304 is a new economical design derived from our new Miniverter line. It is a basic transverter with low noise MMIC's, SAW filter technology, and Q5's digiLO synthesizer. It has become the most versatile, selective and stable 13 cm transverter ever produced by DEMI. It features the option of using a 144 MHz (145MHz), 50 MHz or 28 MHz transceiver for an IF radio. Please specify at the time of order. It has a transmit output power of >50 mW (+17dBm) with spectral purity of >-50dBc ready to drive any power amplifier. The MINI 2304 has a RX gain of >17 dB with a 1.5 dB NF waiting for a High performance LNA to complete the system.



As a functioning DEMI transverter, it has all of the standard features expected from our products. The transverter has the standard option of being ordered with common or separate RF and IF connections that are easily re-configured by the user if future set ups require change. Both TXIF and RXIF have adjustable gain controls with the TXIF having a preset range between -20dBm and 10 watts. This range is determined at time of order and if it exceeds 100 mW, it will include the TXIF over drive protection option. The TXIF drive range may be altered by the end user if desired in the future. An additional RXIF gain stage may be added if the transverter is to be utilized in a remote operation position where excessive line loss is a factor or if you do not utilize a LNA. The choice of a PTT Low or High can be made along with the option of the PTT-H on the TXIF/COM coax. The transverter also provides an isolated PTT-LOW output to sinking up to 100 mA to key any device the transverter may be connected to.



The MINI2304 will be provided with a wired DC/PTT cable and be ready to use after completing the simple set-up procedure. Because of its small size (4.5" x 3.0" x 1.5") a flanged cover plate is included with a provision to attach it to any fixed surface. The cover plates may be interchanged if it allows for easier

installation. Please understand that because of customization of filters and specific gain stage requirements, the MINI2304 will not be offered as a kit. It will be offered as an economical fixed price unit with all options included. A future product will be a power amplifier/LNA unit that can be directly connected or installed remotely to improve the performance if you do not have an existing system. The MINI2304 can also be ordered with a 2320, 2400 and a 2424 MHz RF section with 144 MHz IF frequency.