



DEM MINIVERTER PRODUCT ANNOUNCEMENT

The DEM MINIVERTER is a single band transverter designed to provide a 2nd conversion of any microwave transverter to a 28 MHz transceiver. With the design featuring MMIC and SAW filter technology, it can be ordered to operate on any single Amateur band between 2M and 13 cm with various IF frequencies. This design also provides a means to build a single band high performance transverter system on any of its operational bands by adding LNA and power amplifier modules along the way.



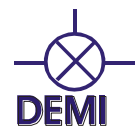
As a functioning DEMI transverter, it has all of the standard features expected from our products. A transverter configured to the band of your choice will have a **Q5 Signal DigiLO** frequency locked Local Oscillator to either its own internal reference or can be connected to an external 10 MHz source. 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 up requirements 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 along with adding additional RXIF gain if the MINIVERTER is to be utilized in a remote operation position where excessive line loss is a factor. 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 key any Microwave transverter that may be connected to it.

As for the MINIVERTER's RF performance, it is a low level transverter. All bands will have a 50mw (+17dBm) at the P1dB point output power specification. On receive, since it is a 2nd conversion, 5 dB-8 dB gain will be the norm to maintain an adequate noise figure that will not degrade your microwave transverter's performance. The following page will list the specific frequency versions that will be available.



The MINIVERTER 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 MINIVERTER will not be offered as a kit. It will be offered as an economical fixed price unit with all options included. Some versions will have specific product descriptions if required as we release them into production.



DEM MINIVERTER VERSION AVAILABILTY

Listed by RF and IF frequency

2M	1.25cm	70cm	33cm	23/24cm	12/13cm
144-28	222-28	432-28	902-28	1296-28	2304-28
144-24	222-29	432-27	903-28	1296-144	2304-144
144-25	222-29.5	432-29	902-144	1296-29	2304-145
144-26	222-28.5	432-30	903-144	1296-145	2304-50
144-27	222-27	432-28.5	902-145	1296-50	2320-144
144-28.5	222-26	432-29.5	902-50	1296-52	2400-144
144-29	222-50	432-50	902-52	1269-28	2424-144
144-29.5	222-51	432-51	903-50	1269-52	
144-30	220-28	435-28		1269-145	
144-14	220-29	435-27		1269-146	
144-50	220-30	435-26		1269-430	
	220-50	435-29		1269-440	
	222-14	435-50		1263-28	
		435-51		1263-29	
		435-52		1263-52	
				1263-144	
				1263-145	
				1263-146	
				1263-430	
				1263-440	