



DEM 8400RX - _____

| | | |
|---------------------------|--|--------------|
| RF connector type: | SMA | type "N" |
| IF connector type: | SMA | type "N" |
| +DC Bias supply: | IF Coax | DC Feed thru |
| System Noise Temperature: | <75 degrees K or 1.0dB NF | |
| System Gain: | >20dB or 35 dB | |
| DC current drain maximum: | < 450 ma @ +12VDC | |
| Frequency Stability: | +/- 200 Hz (case temperature variable) | |

The DEM 8400RX is an 8400-8500 MHz receive converter designed to deliver the full 100 MHz assignment of the X Band deep space downlink frequency band at the IF frequency you choose at the time of order. The 8400RX is designed to be mounted at the antenna feed point to eliminate feed line loss and to maintain its low noise temperature characteristics. The DC power option is indicated above. Mechanically, the converter is housed in a weather proof aluminum housing that is chemical treated to prevent oxidation. It is provided with mounting brackets to be attached to any mast or mechanical structure that your antenna is mounted to.



OPERATION:

Attach the 8400RX in the operating position with the minimum length coax between the Antenna feed point and the Input connector. Be sure the +DC power is not connected, connect the IF coax to the converter. If you have chosen the external +DC connection, you may attach the wire to the feed-thru connector and be sure to support the wire so that it does not put stress on the connection. You may now connect the IF coax to your receiver and select the converted frequency of choice for monitoring. The frequency listed on the top of the page is the exact frequency 8400.000 MHz converts to. Simply adjust your receiver anywhere from that frequency plus 100 MHz to receive up to 8500.000 MHz.

Special Note: you may use any frequency dependent lightning arrestor on the IF coax but if you have a converter configured for DC bias on the coax, be sure the arrestor will pass the DC though it.