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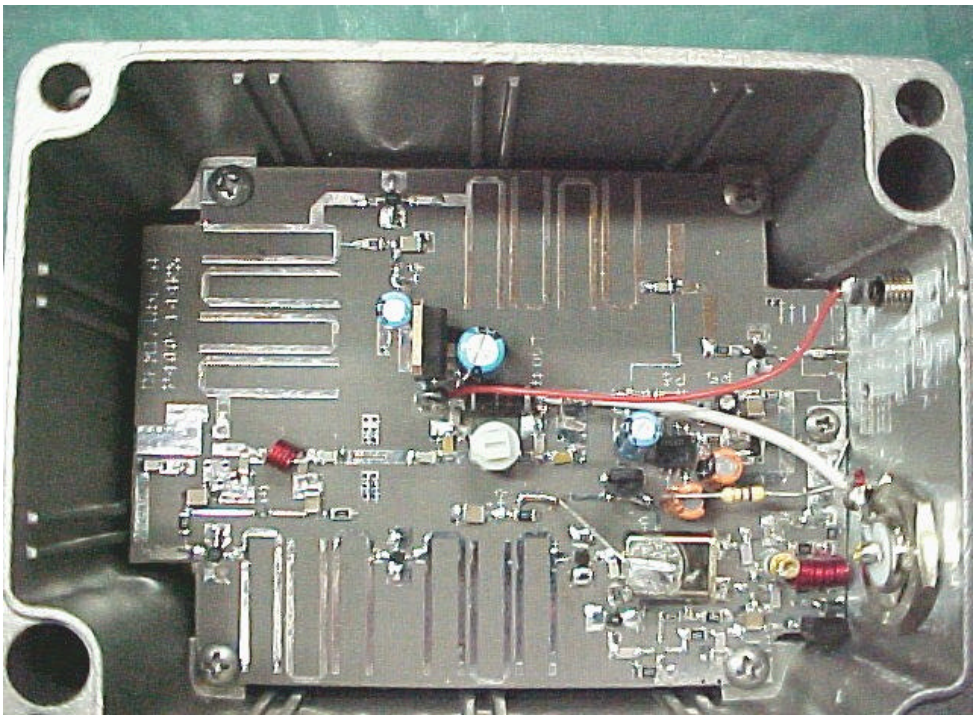
2400-144RX

2400 MHz Receiver Converter, 144MHz IF
<1.0dB NF, >20dB Gain

With the successful launch of AO-40, we have now started production of our 2400-144RX receive converter. The 2400-144RX is a receive converter that will convert a RF signal of 2400 - 2404 MHz to an IF signal of 144 - 148 MHz. This unit will not have any transmit bypassing capability for your 144MHz transceiver! It is a receive converter only! The converter is only available in a weather proof enclosure. A DC power requirement of +11 to +17VDC @400mA and is fed through the IF coax (144 MHz.) or supplied to the DC test connector. The 2400 MHz. RF connector is a type "N" and the 144 MHz. IF connector can be either a standard UHF type or a type "N".

All connections are on the same end of the enclosure to ease mounting on a antenna or antenna mast. The **"Test"** connector may be used for an external power connector if necessary. It also doubles as a vent to prevent moisture build up from condensation so leave it un-capped after installation. The **"IF"** connector (type "N" standard) may be ordered as a UHF connector but is not recommended because of weatherproofing. The converter should be mounted in the antenna system so that the connectors will face down when the antenna is parked in it's resting position.

Below is a standard unit without the optional IF gain stage. The gain stage should be ordered if the IF feed-line has more than 6DB of attenuation. A RXIF attenuator is standard in the converter so that a correct gain adjustment can be made before installation. The system should be tested with the IF cable that will be used in the system before installation. A crystal heater and three voltage regulators provide more than adequate frequency stability for AO-40 operation. Be sure to protect the converter from any transmitted power from a transceiver.



2400-144RX PC Board

2400-144RX mounted to a DSH 12-27antenna.