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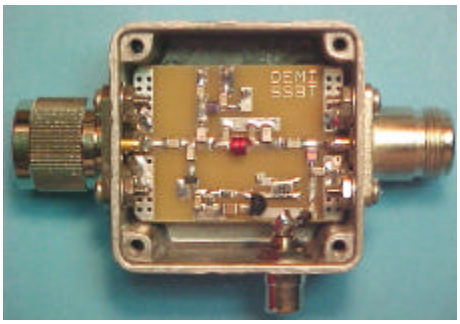
DEM Part Number SSBT
Safety Switch Bias Tee



Product Description and Specifications:

If you desire to use a receive converter on a transceiver and have the fear of accidentally transmitting or know of some strange quirk that allows your transceiver to transmit, then you may want to consider the SSBT. The SSBT not only is a bias tee to supply DC power through the coax to your receive converter, but is a RF sensed, solid state switch that will attenuate any abrupt transmission up to 50 watts, protecting the receive converters IF output components. Actuation is RF sensed with RF drive levels up to **50 watts***. The SSBT contains a 35 watt, 50Ω load resistor that will tolerate a 50 watt transmission for up to one minute. It is switched in the transmit path when it senses a accidental transmission. The SSBT is housed in a 2" x 2" x 1.2" die cast enclosure with 2 RF and 1 DC connectors.

The SSBT attaches directly to you transceiver and should be connected to the same power source as the transceiver to prevent accidental transmissions before the SSBT is biased.

DEM SSBT 144 Operating Specifications

Operating Voltage:	11.0 - 17.5 VDC, 13.8 nominal
Current Drain W/O Converter:	100mA Maximum Transmit, 10 mA Receive
Maximum Input Power:	**50 Watts ALL Modes!!!**
Maximum Input/Output VSWR:	< 2.1
RX to TX load port Isolation:	>35dB
Operation Frequency:	144 - 148MHz
Connections:	Male "N" Transceiver, Female "N" converter, RCA DC connection
Maximum Power Disapation	50 watts for 1 minute with out damage

SSBT Block Diagram