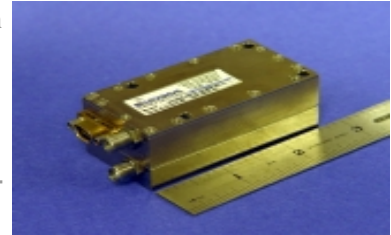




Telemetry Transmitter Series TTx-3.8, 5 Watt Data Sheet 1400-2400 MHz; In Bands

The TTx-3.8 5 Watt Telemetry Transmitter Series Represents a breakthrough in the Telemetry Transmitter marketplace. This Series incorporates the latest technological advances yielded from high shock environmental testing in excess of 50,000g's, resulting in an extremely robust design. Low voltage operation to 8Vdc, overall efficiency better than twice competitive products, along with ultra small size makes this Transmitter series ideal for use on High Dynamic Environment Ballistic and Missile platforms.



Product Specifications: TTx-3.8-5Watt

RF operating characteristics:

Frequency of Operation: 1400 - 2400 MHz
 Frequency Stability: +/-0.002%
 Output Power: 5 Watts Min.
 Output Z: 50 Ohms nominal
 VSWR: 2.0:1 nominal
 Spurious Outputs: As per IRIG-106
 Load protection: Protected against open/short

Modulation characteristics:

Modulation Type: True FM
 Modulation Frequency Response: 100 Hz to 10 MHz
 Modulation Sense: Positive
 Modulation Input Z: 75 Ohms/ Hi-Z optional
 Optional Filtering: CCIR-405; or up to a 6-pole Bessel pre-modulation filter
 Sensitivity: Factory Set to customer specifications
 Distortion: < 2.0%
 IFM: 10 kHz peak maximum
 IAM: < 2%

Power requirements:

Voltage Range: 8 to 15 Vdc, (5 Vdc operation available on lower power unit)
 Current Consumption: 3.0 Amp maximum for 5 Watts
 Reverse Polarity Protection: Provided

Environmental specifications:

Temperature Range: -20 to +70°C Standard, -40 to +85°C Optional
 Humidity: Non-Condensing
 Acceleration: 100 g's
 Shock: 1,000g's
 Vibration: 20g's sine, 10 Hz to 2 kHz
 0.1g²/Hz Random, 10 Hz to 2 kHz

Mechanical/Connector characteristics:

RF Output: SMA Female, "pigtail" optional
 DC Input: Solder pin (MDM connector optional)
 Modulation Input: Solder pin, Coaxial, or MDM Connector
 Mounting/Outline Dimensions: See outline

Ordering Information/Options:

Microwave Innovations takes pride in easily meeting customer specific requirements. Please consult factory for options.
 Consider the following when preparing an order: Frequency of operation, pre-modulation filtering if any, Input Z, Modulation Sensitivity, RF output power, and Power/Mod/RF Cable lengths.

Microwave Innovations
 RF Engineering Solutions
 121 Friends Lane, Suite 400
 Newtown, PA. 18940

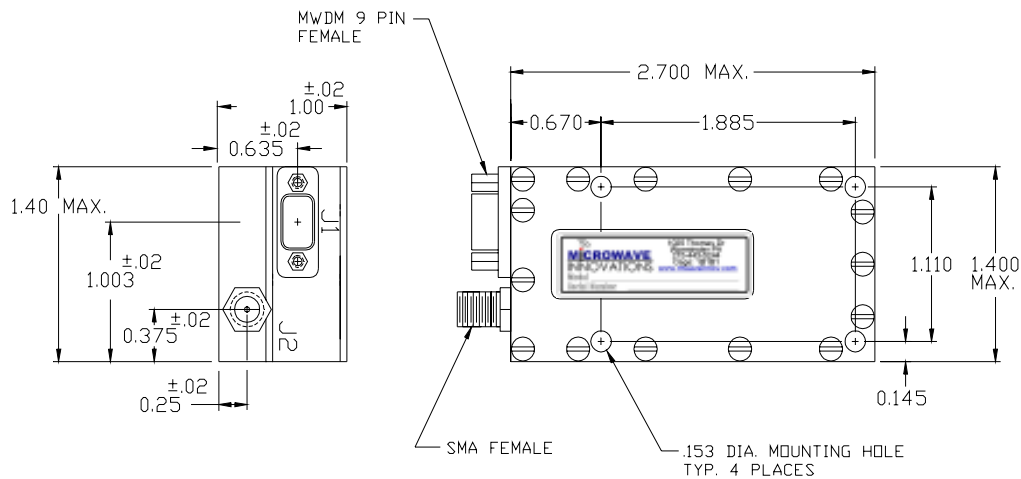
www.mwaveinnov.com

Contact Information:

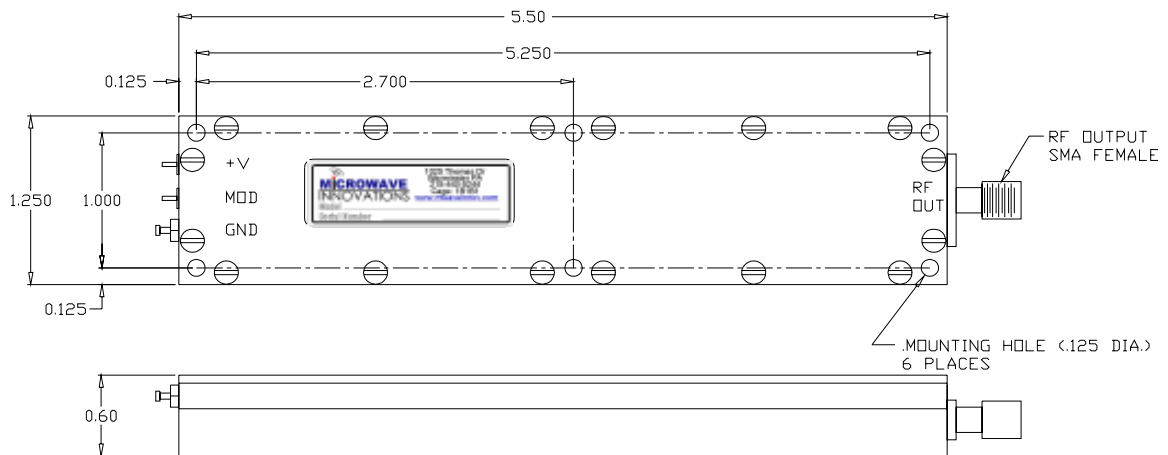
Phone: 215-497-0607
 Fax: 215-497-0609
 E-Mail: Sales@mwaveinnov.com

Product Outline Dimensional Drawing: TTx-3.8, 5 Watt

Mechanical outline configuration:



Optional mechanical configuration:



Specify this optional package as TTx-x.x-5W

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