

We define Munitions Telemetry (MT) as products that are used in artillery, rifle, rocket, and mortar fired ordinance for development, testing, re-qualification or validation purposes. We can design, build and support every aspect from a transmitter module to a full telemetry kit. Our TM kits can include the transmitter, encoder and power supply along with any other support electronics you munitions needs for telemetry support. We often work with guided weapons and incorporate design measures to accommodate co-located GPS and TM antennas.

Our MT transmitters can be shaped to fit into most miniature TM size requirements and we have flown on many of the most advanced munitions systems in use today. Our MT modules are used daily by leading US arsenal test facilities as their test standard for TM packages. We are also routinely selected as a valued and key technology partner in new development programs with leading munitions suppliers.

Products regularly support specifications that include 50,000 Gs of shock and 2 Watts at S-Band or L-Bands, with data rates up to 10MBPS. Our designs easily adapted to fit into limited spaces in both development and existing programs. Our kits can also provide integrated encoders such as our 16 channel PCM encoder with 8 digital and 8 analog inputs plus one serial input. If your program needs telemetry we can simplify your efforts today with over a decade of experience in munitions systems.

**Flexible MT Transmitter & TM Kit Solutions**

Up to 2 Watts Output

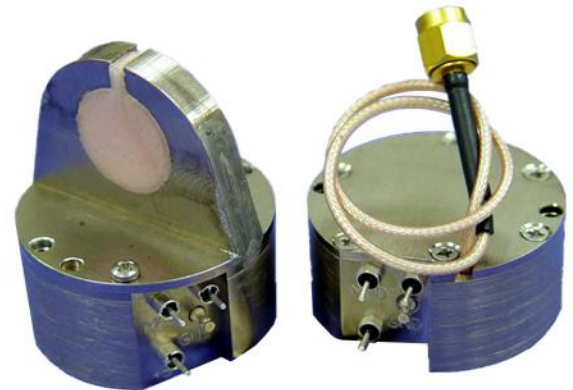
L-Band & S-Band Frequencies Available

Date Rates Up to 10MBPS

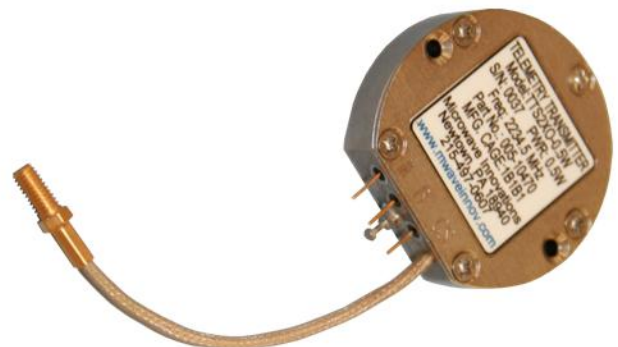
Analog, PCM, Video, RS-422, RS-232 Interface Options



**0.5 Watt  
Transmitter-Encoder-Antenna System**



**T4XO Less Than 1 Cubic Inch**



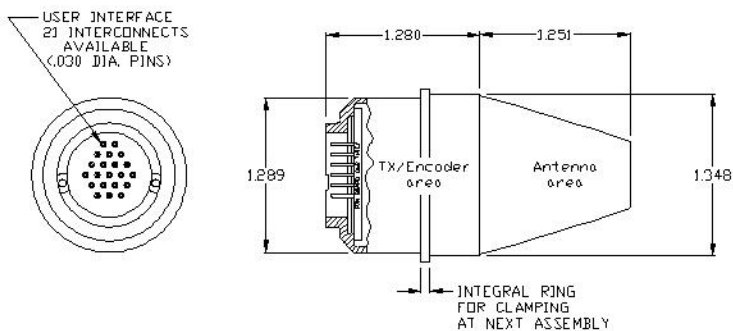
**T2XO Less Than 0.4 Cubic Inch**

# Munitions Telemetry—Commonly Used TM Packages

## MT

### PROVEN PERFORMANCE TELEMETRY PRODUCTS

Shown below are three MT products that we commonly produce and offers to munitions testing and development programs regularly. These designs proven and ready to support of your program today.



#### Typical Full MT Kit @ 0.5 Watt Output Transmitter-Encoder-Power Supply- Antenna

Antenna: "Stub"

Input Sample Rate: 5 KHz

Serial Data: 480 KBPS

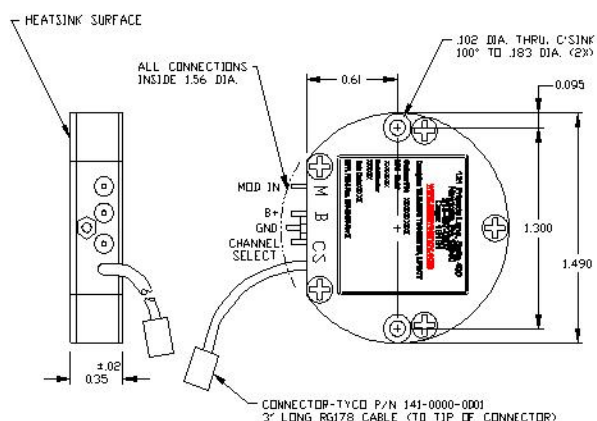
8 Analog Inputs

8 Digital Inputs

1 PCM Input

Output Frequency: 2200.5 to 2299.5 MHz

Shock: 30,000 Gs



#### T2XO Transmitter Module

Input Freq Response: 1kHz—4 MHz

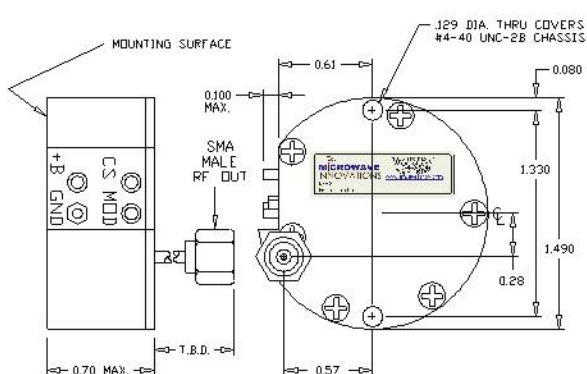
Output RF Frequency: 2200.5 to 2299.5 MHz

Input Power: 4.6 to 10 VDC @ 0.4 A (Max)

Shock: 30,000 Gs

Acceleration: 30,000 Gs

Vibration: 20 Gs



#### T4XO Transmitter Module

Input Freq Response: 1kHz—10 MHz

Output RF Frequency: 2200.5 to 2299.5 MHz

Input Power: 8 to 26 VDC

Shock: 50,000 Gs

Acceleration: 50,000 Gs

Vibration: 20 Gs

**Custom designs and unique package are common for us.**

