



## Telemetry Transmitter Series TTx-200-1/2W-2W Data Sheet 1400-2400 MHz in bands

The TTx-200 Telemetry Transmitter Series Represents another breakthrough in the Telemetry marketplace. This Series is designed to allow the customer to add a transmitter to the MICRO encoder series and thus have a complete telemetry system solution. These Ultra rugged units will accommodate high shock levels. Low voltage operation, and ultra small size makes this Transmitter series ideal for use with MICRO series where it can be the bottom item in the encoder stack.



### Product Specifications: TTx-200-1/2 Watt, 1-Watt, 2-Watt

#### RF operating characteristics:

Frequency of Operation: Single/Multi-channel  
 Frequency Stability: +/-0.002%  
 Output Power: 0.25, 0.5, 1 or 2 Watt Min.  
 Output Z: 50 Ohms nominal  
 VSWR: 1.5:1 nominal  
 Spurious Outputs: IRIG-106

#### Modulation characteristics:

Modulation Type: True FM  
 Modulation Frequency Response: 100 Hz to 6 MHz  
 Modulation Sense: Positive  
 Modulation Input Z: 75 Ohms/ Hi-Z optional  
 Filtering/Preconditioning: CCIR-405; or up to a 6-pole Bessel  
 Sensitivity: Factory Set to customer specifications

#### Power Requirements:

Voltage Range: 8 to 15 Volts, 5 Vdc operation available on lower power unit.  
 Current Consumption: Dependent on RF power; 1 Watt  $\leq$  550mA, 2 Watt  $\leq$  850mA  
 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: 100g's, 11 mSec, 1/2 sine  
 Vibration: 20g's sine, 10 Hz to 2 kHz  
 0.1g<sup>2</sup>/Hz Random, 10 Hz to 2 kHz

#### Mechanical/Connector characteristics:

RF Output: SMA Female, "pigtail" optional  
 DC Input: MDM9S  
 Modulation Input: MDM9S  
 Outline Dimensions: See Mechanical drawing  
 Mounting: See Mechanical drawing

#### Ordering Information/Options:

Quad Tron 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.

**Quad Tron**  
 2540 W. Maple Avenue  
 Feasterville, PA 19053

[www.quadtron.com](http://www.quadtron.com)

#### Contact Information:

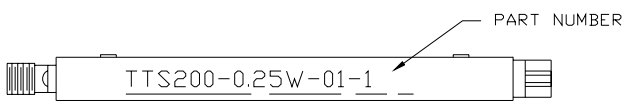
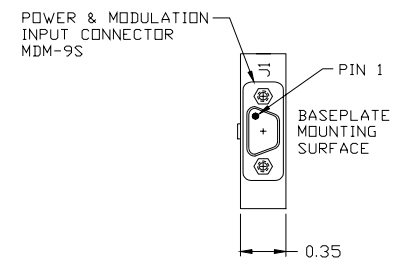
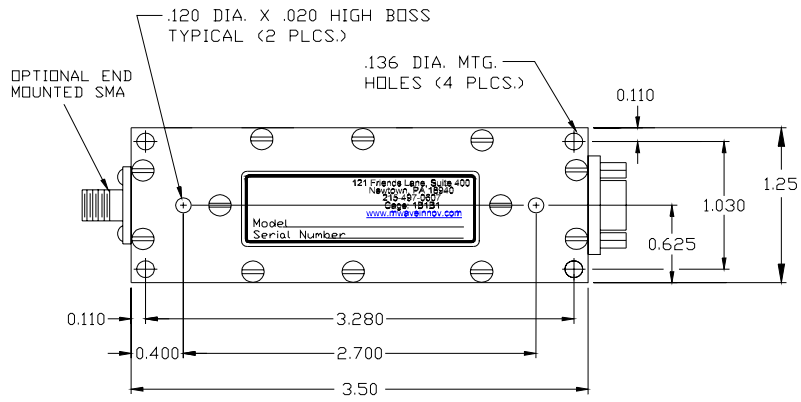
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TTx-200-1/2W-2W Data Sheet  
1400-2400 MHz in bands**

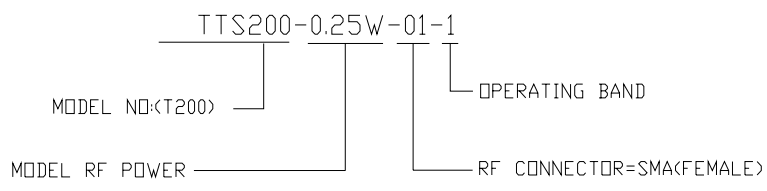
**Product Outline Dimensional Drawing: TTx-200-1/2W-2W**

**Mechanical/Connector characteristics: (1.5 Cubic inch package)**



- J1 PIN CONNECTIONS**
- PIN1 FUNCTION: POWER INPUT
  - PIN2 FUNCTION: POWER RETURN
  - PIN3 FUNCTION: MODULATION INPUT
  - PIN4 FUNCTION: TRANSMITTER CHASSIS
  - PIN5 FUNCTION: NOT CONNECTED
  - PIN6 FUNCTION: POWER INPUT
  - PIN7 FUNCTION: POWER RETURN
  - PIN8 FUNCTION: NOT CONNECTED
  - PIN9 FUNCTION: CHANNEL SELECT (SINGLE WIRE)

**Model designation/Ordering information:**



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