

# RF Pulse Transformer

## 350 - 1125 MHz



TP-108  
Rev. V4

### Features

- 50  $\Omega$  Unbalanced to Dual 100  $\Omega$  Unbalanced
- Unbalanced or 200  $\Omega$  Balanced
- Low Insertion Loss
- Accessible Center Tap for DC Bias
- MIL-STD-202 Screening Available

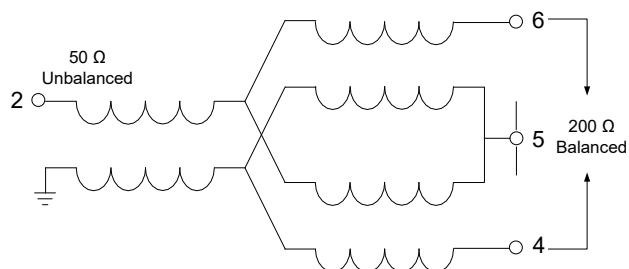
### Applications

- Aerospace & Defense
- ISM

### Description

The transformer coupled balun can provide a wide frequency range. DC isolation from primary coil to secondary coil is also a feature of this device.

### Functional Schematic



pins 1, 3 (grounded to case)  
pin 5 (externally biased or grounded)

### Electrical Specifications: $T_A = -55^{\circ}\text{C} - +85^{\circ}\text{C}$

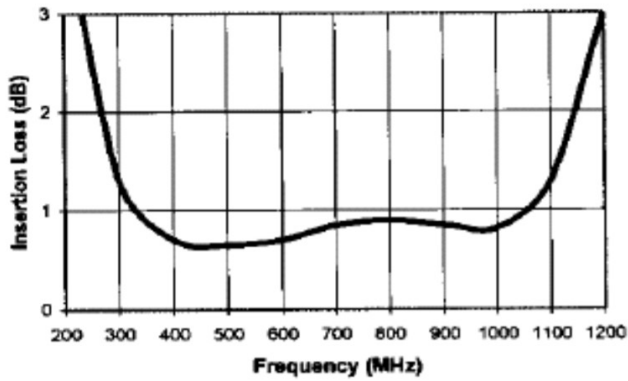
| Parameter      | Test Conditions                       | Units    | Min. | Typ.      | Max.           |
|----------------|---------------------------------------|----------|------|-----------|----------------|
| Impedance      | Input: Unbalanced<br>Output: Balanced | $\Omega$ | —    | 50<br>200 | —              |
| Insertion Loss | 500 - 1000 MHz                        | dB       | —    | —         | 1              |
| VSWR           | 500 - 1000 MHz<br>350 - 1125 MHz      | Ratio    | —    | —         | 1.5:1<br>2.5:1 |
| Input Power    | 350 - 1125 MHz                        | W        | —    | —         | 3              |

### Ordering Information

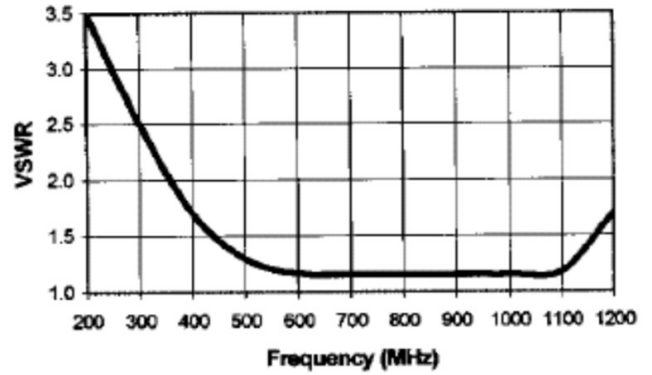
| Part Number | Package     |
|-------------|-------------|
| TP-108-PIN  | tape & reel |

Typical Performance Curves

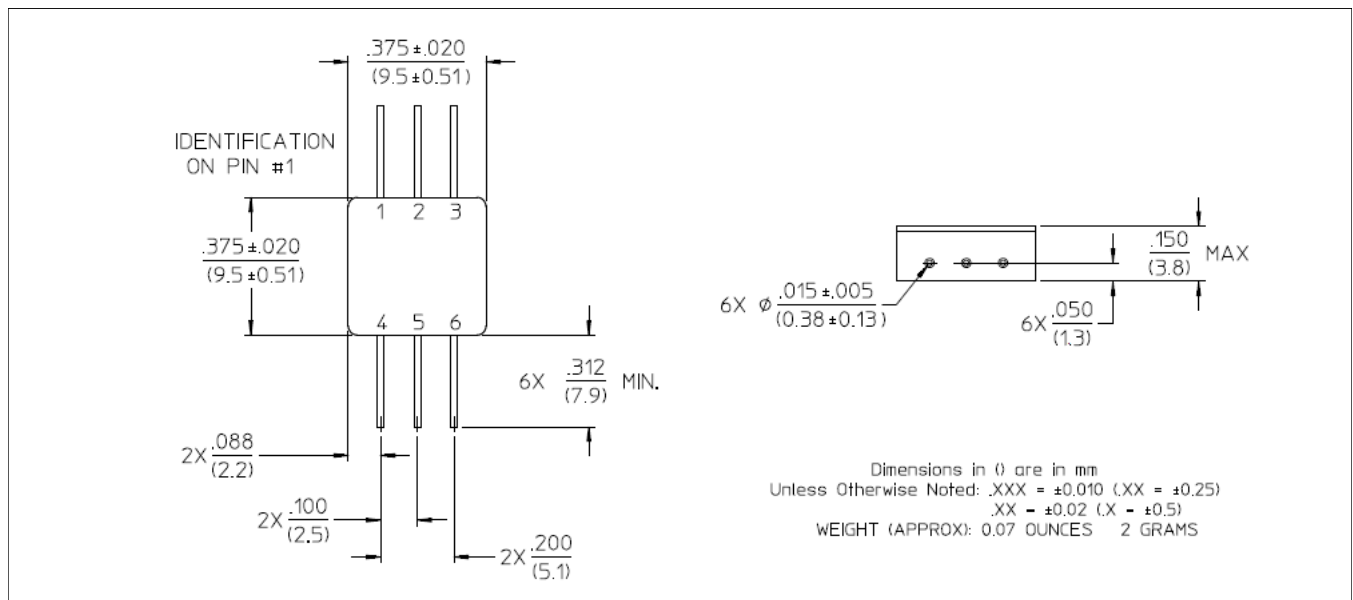
Insertion Loss



VSWR



Outline (FP-1)



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