

# RF Pulse Transformer

## 500 kHz - 1 GHz



TP-105  
Rev. V4

### Features

- 50  $\Omega$  Unbalanced / 12.5  $\Omega$  Balanced
- 0.4 dB Insertion Loss
- 1.1:1 VSWR
- MIL-STD-202 Screening Available

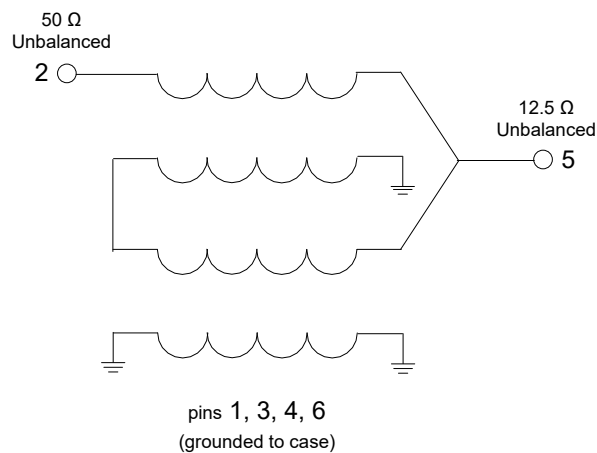
### Applications

- 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



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

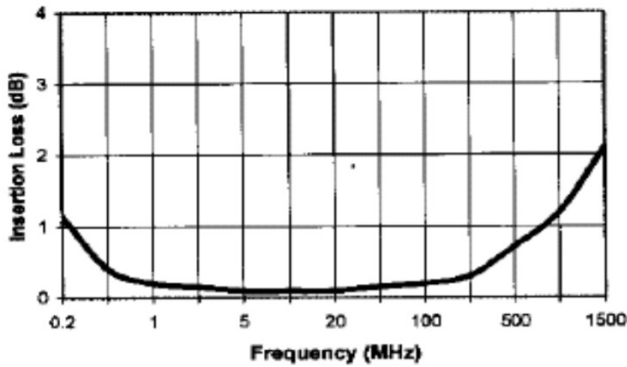
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Impedance	Input: Unbalanced Output: Unbalanced	$\Omega$	—	50 12.5	—
Insertion Loss	10 - 50 MHz	dB	—	—	0.5
VSWR	1 - 500 MHz 500 kHz - 1 GHz	Ratio	—	—	1.4:1 1.6:1
Input Power	500 kHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1 GHz	W	—	—	0.375 0.75 1.5
Rise Time	10% - 90%	ns	—	0.3	—
Droop (10%)	—	ns	—	350	—

### Ordering Information

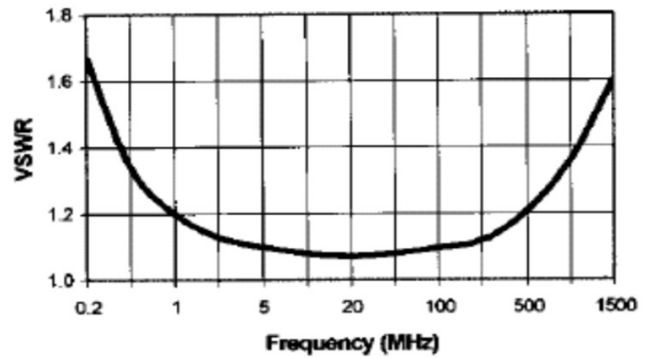
Part Number	Package
TP-103-PIN	tape & reel

Typical Performance Curves

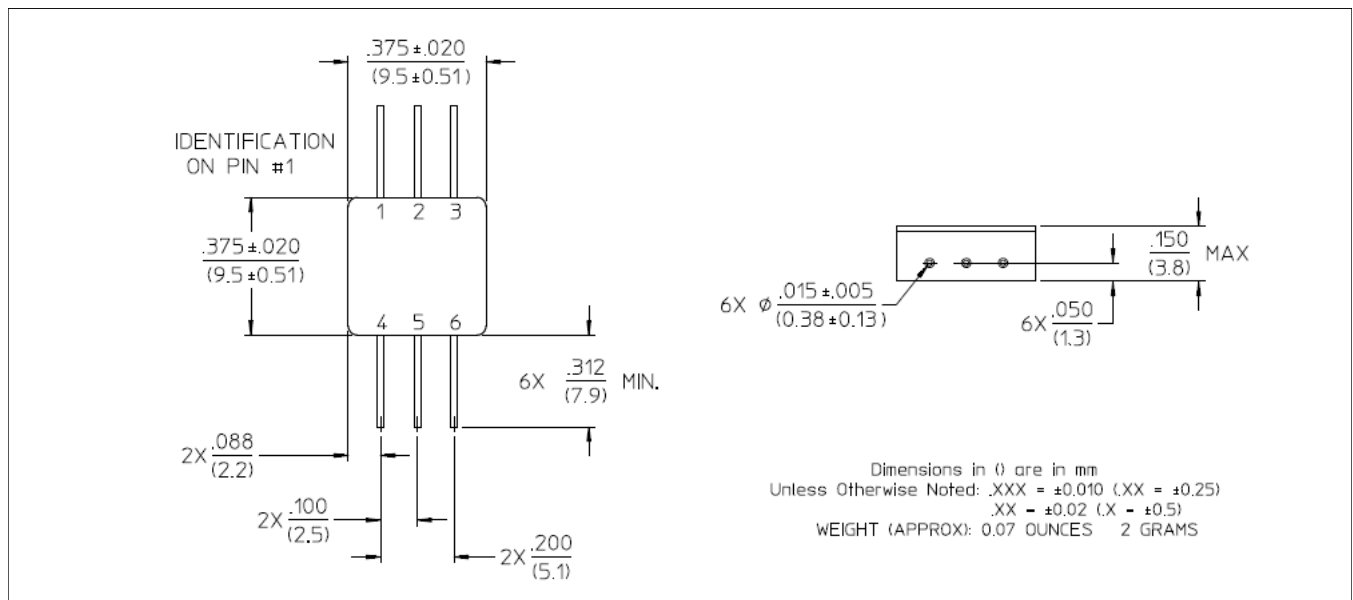
Insertion Loss



VSWR



Outline (FP-1)



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