

# RF Pulse Transformer

## 1 - 500 MHz



TP-102  
Rev. V4

### Features

- 50  $\Omega$  Unbalanced / 200  $\Omega$  Unbalanced
- 0.75 dB Insertion Loss
- 0.35 ns Rise Time
- MIL-STD-202 Screening Available

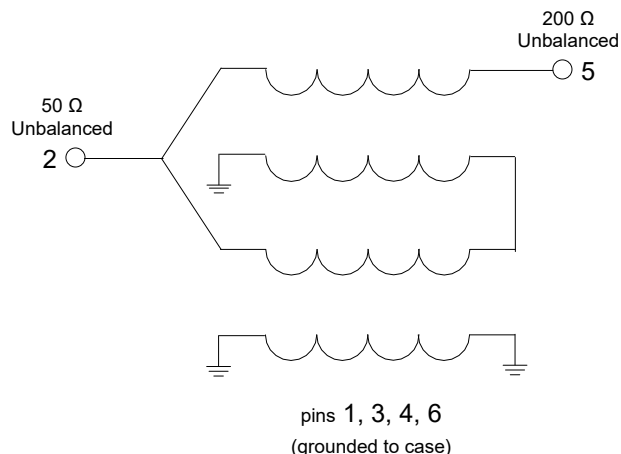
### Applications

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

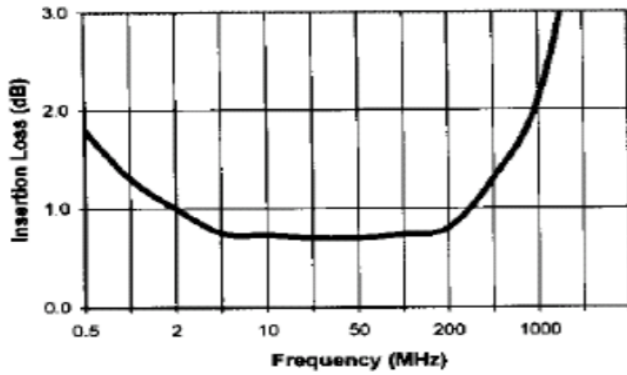
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Impedance	Input: Unbalanced Output: Unbalanced	$\Omega$	—	50 200	—
Insertion Loss	10 - 50 MHz	dB	—	0.75	—
VSWR	5 - 250 MHz 2 - 500 MHz 1 - 2 MHz	Ratio	—	—	1.3:1 1.6:1 2.0:1
Input Power	1 - 5 MHz 5 MHz - 1 GHz	W	—	—	0.5 1.0
Rise Time	10% - 90%	ns	—	0.35	—
Droop (10%)	—	ns	—	150	—

### Ordering Information

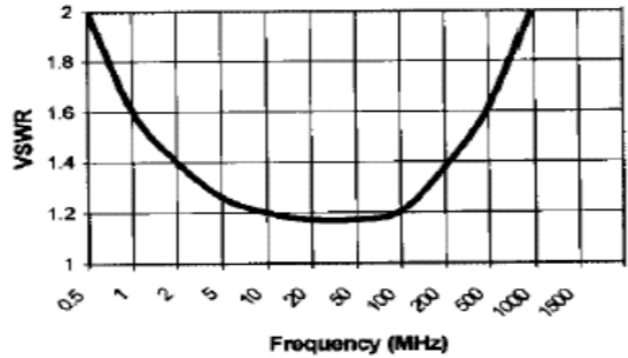
Part Number	Package
TP-102-PIN	tape & reel

Typical Performance Curves

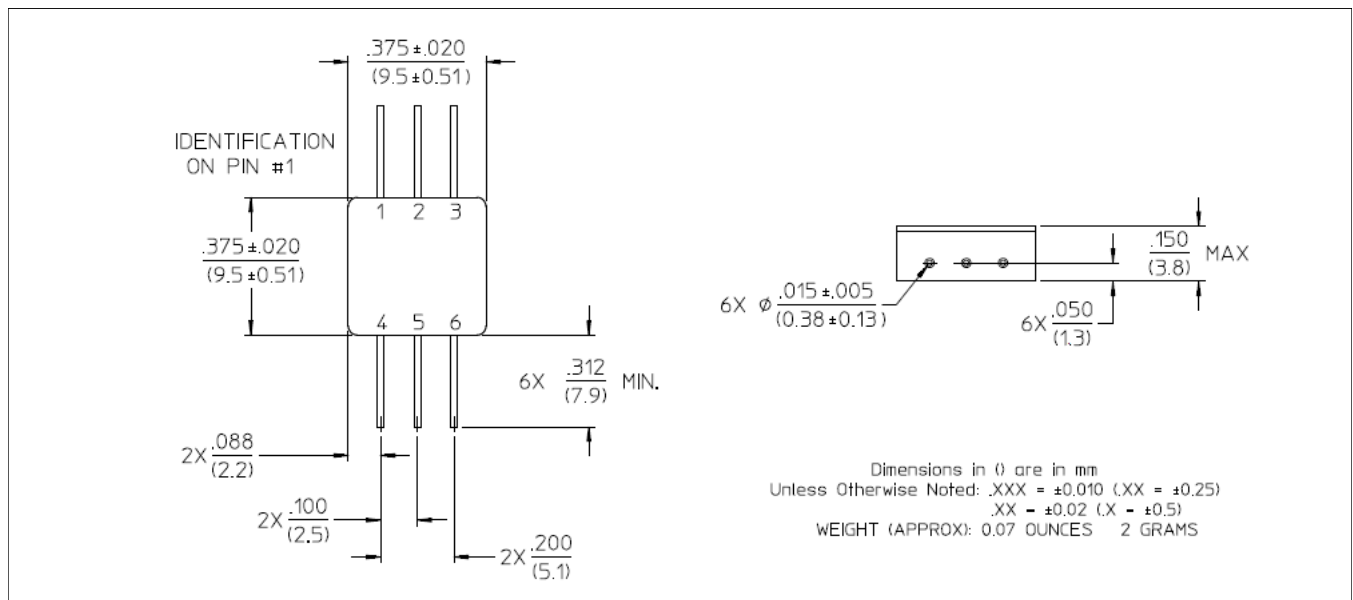
Insertion Loss



VSWR



Outline (FP-1)



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