## RF Pulse Transformer 500 kHz - 1 GHz



# TP-103

Rev. V5

#### Features

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

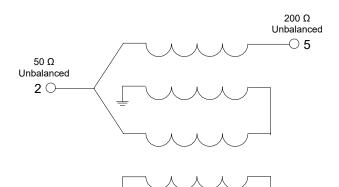
#### **Applications**

- 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**



pins 1, 3, 4, 6 (grounded to case)

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Impedance	Input: Unbalanced Output: Balanced	Ω	—	50 200	—
Insertion Loss	10 - 50 MHz	dB	—	—	0.6
VSWR	2 - 500 MHz 500 kHz - 1 GHz	Ratio	_		1.4:1 2.0:1
Input Power	500 kHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1 GHz	W	_	_	1.0 1.5 3.0
Rise Time	10% - 90%	ns	_	0.18	—
Droop (10%)	_	ns		160	_

### Electrical Specifications: T<sub>A</sub> = -55°C - +85°C

#### **Ordering Information**

Part Number	Package	
TP-103-PIN	tape & reel	

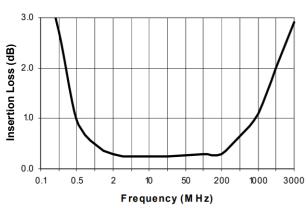
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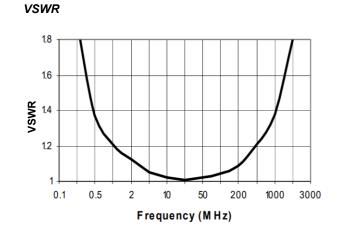


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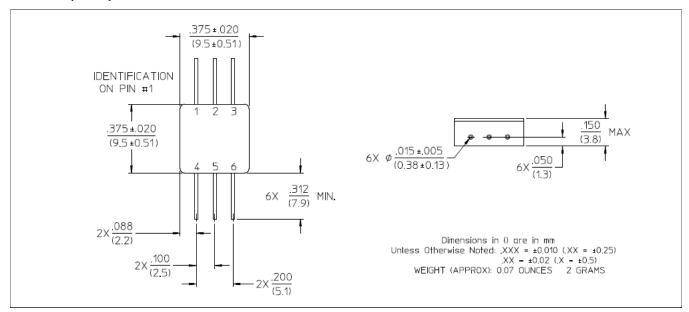
### **Typical Performance Curves**



Insertion Loss



#### Outline (FP-1)



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TP-103 Rev. V5

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