## RF Pulse Transformer 500 kHz - 1.5 GHz



TP-101

Rev. V4

#### Features

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

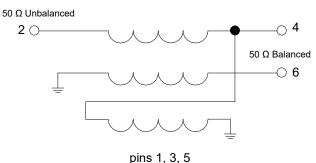
#### **Applications**

- 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**



(grounded to case)

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

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Impedance	Input: Unbalanced Output: Balanced	Ω		50 50	—
Insertion Loss	10 - 50 MHz	dB	_	—	0.5
VSWR	1 MHz - 1 GHz 750 kHz - 1.5 GHz	Ratio			1.4:1 1.6:1
Input Power	750 kHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1.5 GHz	W	_	_	1.0 1.5 3.0
Rise Time	10% - 90%	ns	_	0.18	—
Droop (10%)	_	ns		300	—

#### **Ordering Information**

Part Number	Package	
TP-101-PIN	tape & reel	

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## **RF Pulse Transformer** 500 kHz - 1.5 GHz



**TP-101** Rev. V4

500

100

20

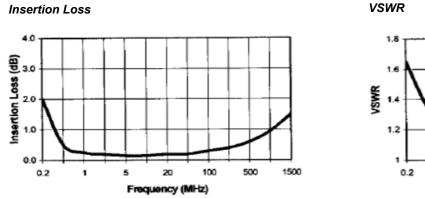
Frequency (MHz)

1

5

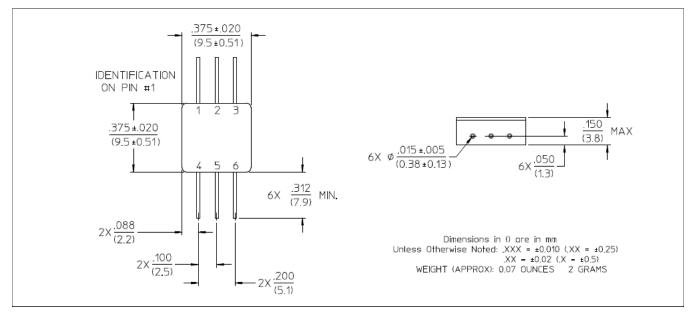
1500

#### **Typical Performance Curves**



#### Insertion Loss

#### **Outline (FP-1)**



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TP-101 Rev. V4

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