

RF Pulse Transformer

500 kHz - 1.5 GHz



TP-101
Rev. V4

Features

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

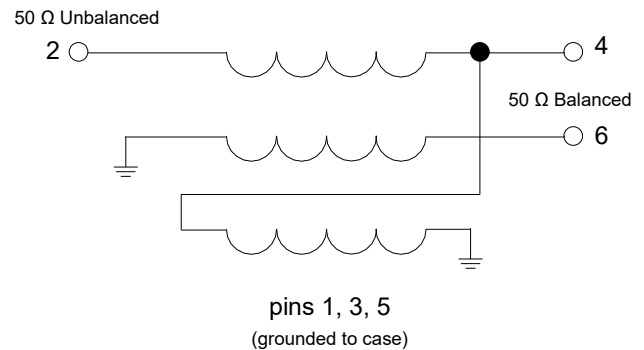
Applications

- 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



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

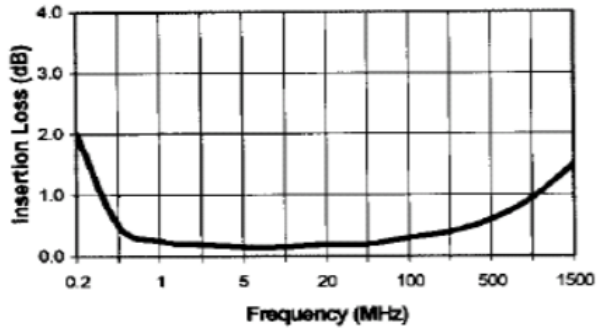
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Impedance	Input: Unbalanced Output: Balanced	Ω	—	50 50	—
Insertion Loss	10 - 50 MHz	dB	—	—	0.5
VSWR	1 MHz - 1 GHz 750 kHz - 1.5 GHz	Ratio	—	—	1.4:1 1.6:1
Input Power	750 kHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1.5 GHz	W	—	—	1.0 1.5 3.0
Rise Time	10% - 90%	ns	—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

Ordering Information

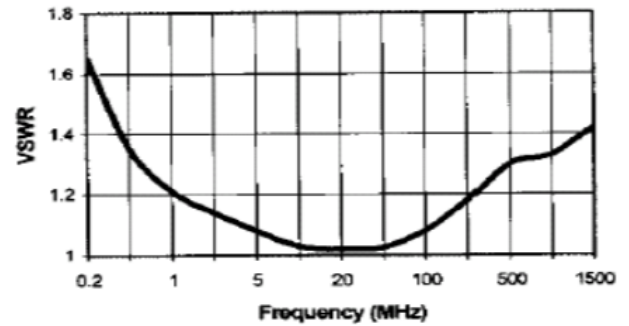
Part Number	Package
TP-101-PIN	tape & reel

Typical Performance Curves

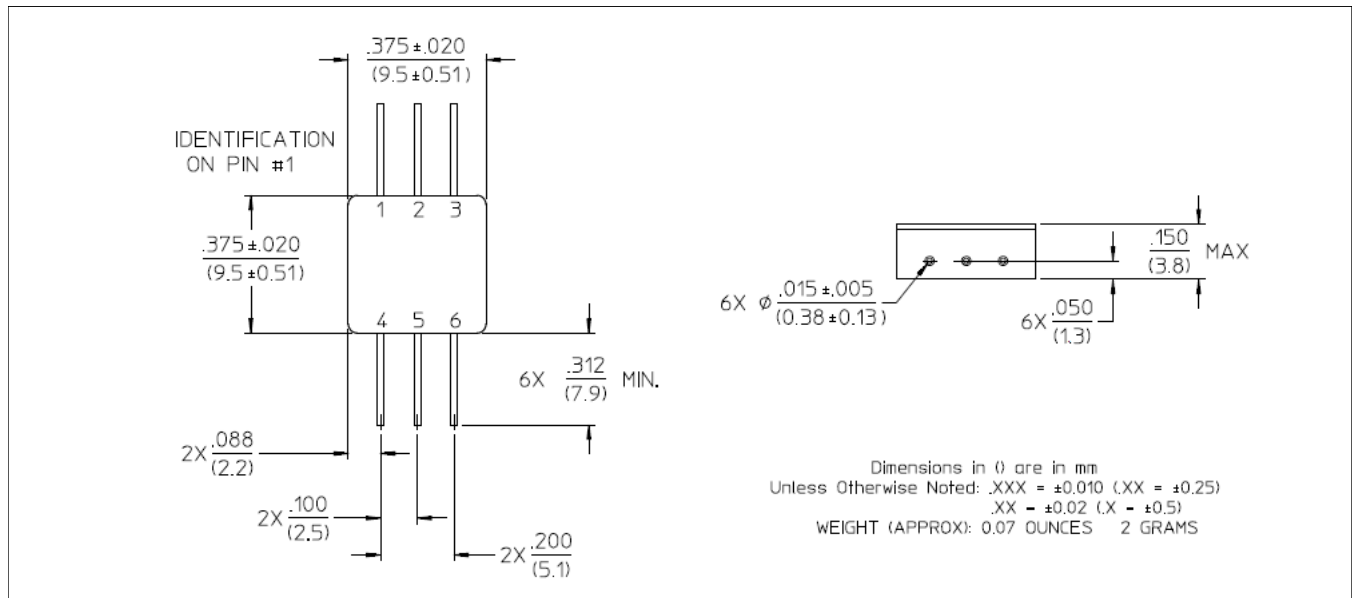
Insertion Loss



VSWR



Outline (FP-1)



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