RF Pulse Transformer
500 kHz - 1 GHz

TP-103
Rev. V6

Features

- 50 Ω Unbalanced / 200 Ω Balanced
- 0.4 dB Insertion Loss
- 0.18 ns Rise Time
- MIL-STD-202 Screening Available

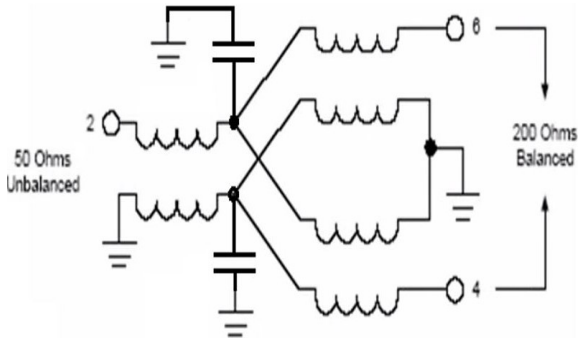
Applications

- 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°C - +85°C

Parameter	Test Conditions	Units	Min.	Typ.	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	—

Ordering Information

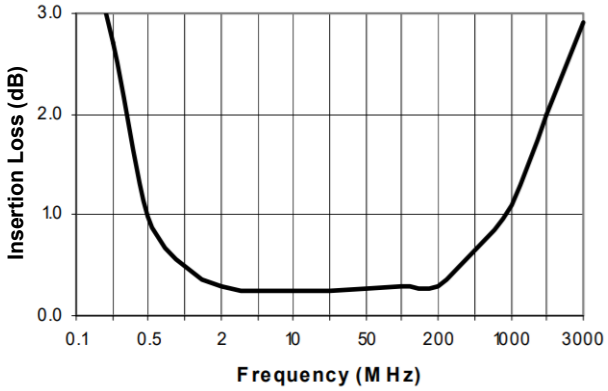
Part Number	Package
TP-103-PIN	tape & reel

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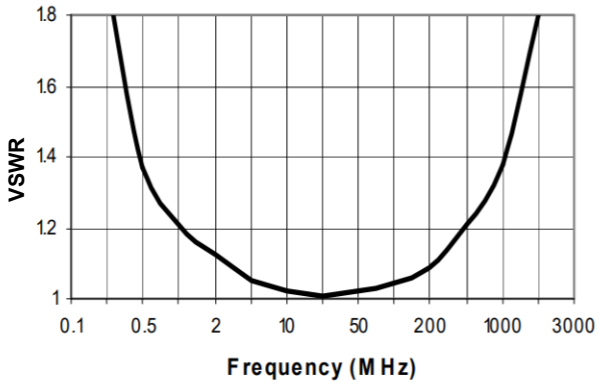
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Typical Performance Curves

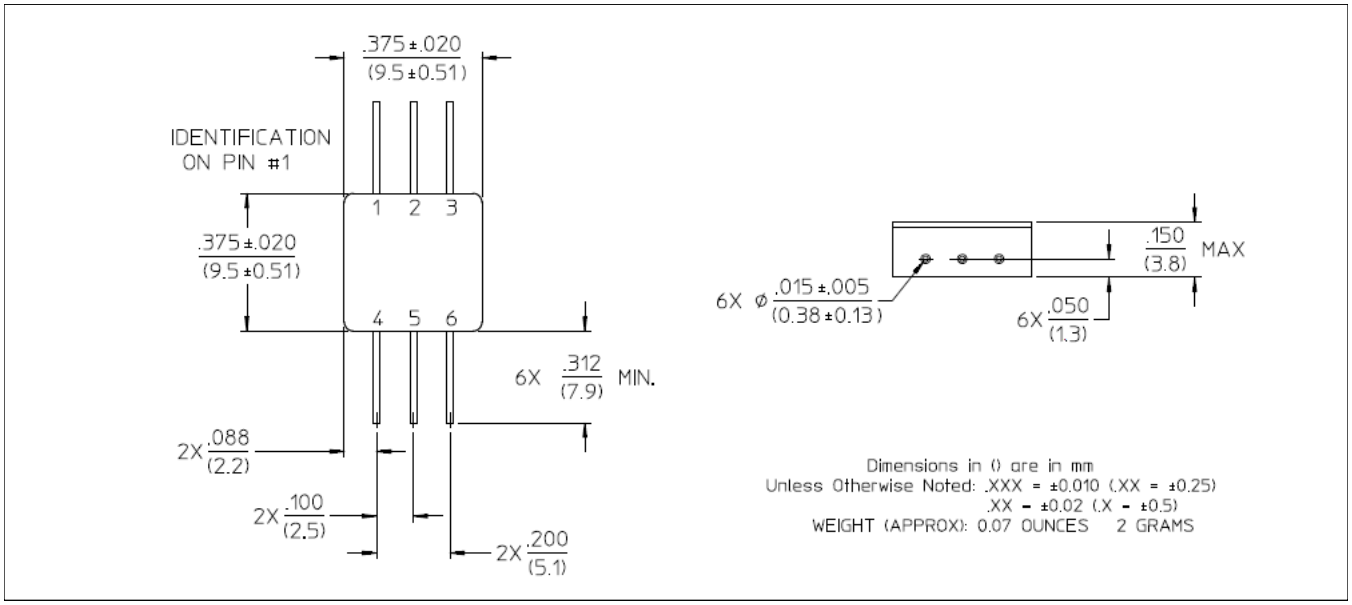
Insertion Loss



VSWR



Outline (FP-1)



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