

RF Pulse Transformer, 500 KHz - 1 GHz

Rev. V3

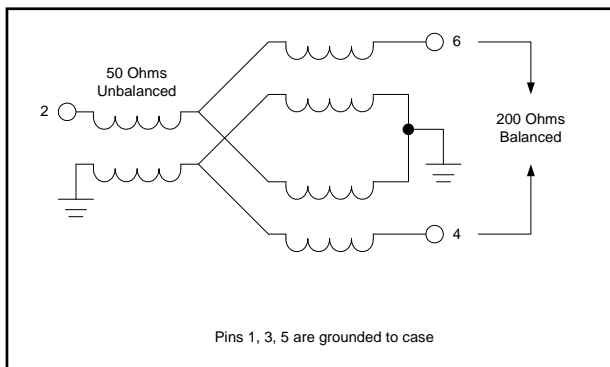
Features

- 50 Ohms Unbalanced/200 Ohms Balanced
- Fast Rise Time: 0.18 nS
- Low Insertion Loss: 0.4 dB Typical
- MIL-STD-202 Screening Available

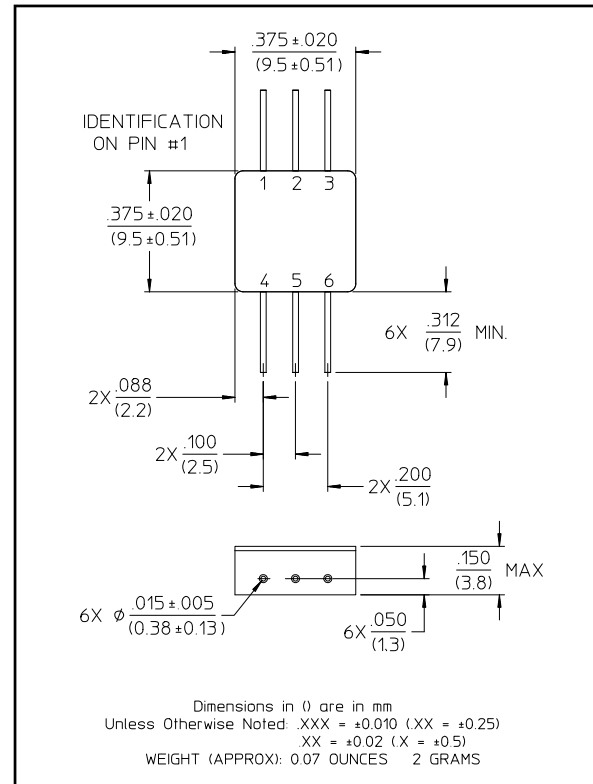
Description

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.

Schematic/Pin Configuration



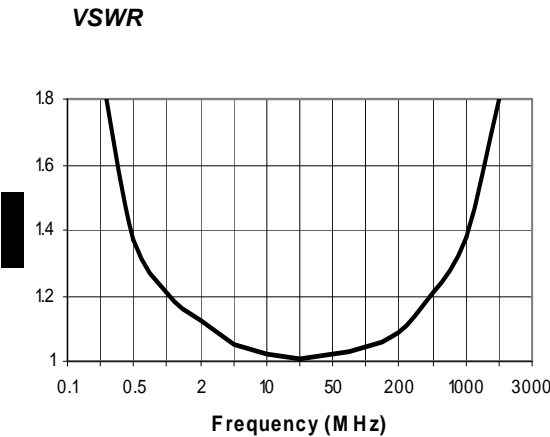
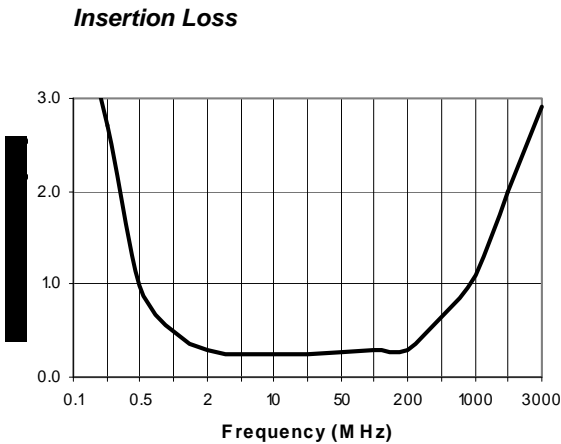
FP-1



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

| Parameter | Test Conditions | Frequency | Units | Min | Typ | Max |
|----------------|--|---|-------------------------|-------------|-------------|-------------------|
| Impedance | Input - 50 Ohms Unbalanced Output - 200 Ohms Balanced | — | — | — | — | — |
| Insertion Loss | — | 10 - 50 MHz | dB | — | — | 0.6 |
| VSWR | — | 2 - 500 MHz 500 KHz - 1 GHz | Ratio Ratio | — — | — — | 1.4:1 2.0:1 |
| Input Power | — | 500 KHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1 GHz | Watts Watts Watts | — — — | — — — | 1.0 1.5 3.0 |
| Rise Time | 10 - 90% | — | nS | — | 0.18 | — |
| Droop (10%) | — | — | nS | — | 160 | — |

Typical Performance Curves



Ordering Information

| Part Number | Package |
|-------------|---------|
| TP-103 PIN | FP-1 |

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