

RF Pulse Transformer, 1 - 500 MHz

Rev. V3

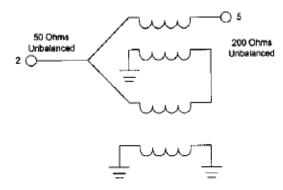
Features

- 50 Ohms Unbalanced/200 Ohms Unbalanced
- Fast Rise Time: 0.35 nS
- Low Insertion Loss: 0.75 dB Typical
- MIL-STD-202 Screening Available

Description

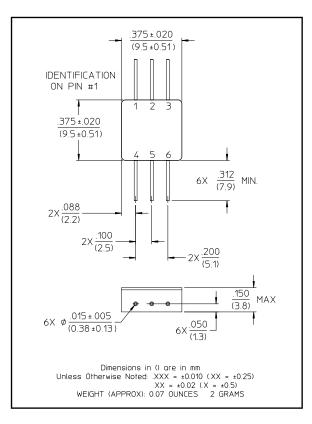
The transformer coupled balun can provide a wide frequency range. DC isolation from primary coil to secondary coil is also a feature of this device.

Schematic/Pin Configuration



Pins 1, 3, 4, 6 are grounded to case

FP-1



Electrical Specifications: $T_A = -55$ °C to +85°C

| Parameter | Test Conditions | Frequency | Units | Min | Тур | Max |
|----------------|--|---|-------------------------|-------------|-------------|-------------------------|
| Impedance | Input - 50 Ohms Unbalanced Output - 200 Ohms Unbalanced | _ | _ | _ | _ | |
| Insertion Loss | _ | 10 - 50 MHz | dB | _ | _ | 0.75 |
| VSWR | _ | 5 MHz - 250 MHz 2 MHz - 500 MHz 1 - 2 MHz | Ratio Ratio Ratio | _ _ _ | _ _ _ | 1.3:1 1.6:1 2.0:1 |
| Input Power | | 1 MHz - 5 MHz 5 GHz - 1 GHz | Watts Watts | _ | _ | 0.5 1.0 |
| Rise Time | 10 - 90% | _ | nS | _ | 0.35 | _ |
| Droop (10%) | _ | _ | nS | _ | 150 | |

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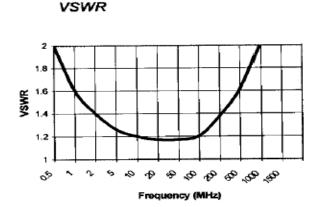


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Typical Performance Curves

Insertion Loss Insertion Loss (dB) 0.0 50 200 1000 0.5 10 Frequency (MHz)



Ordering Information

| Part Number | Package |
|-------------|---------|
| TP-102 PIN | FP-1 |

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not gual

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