

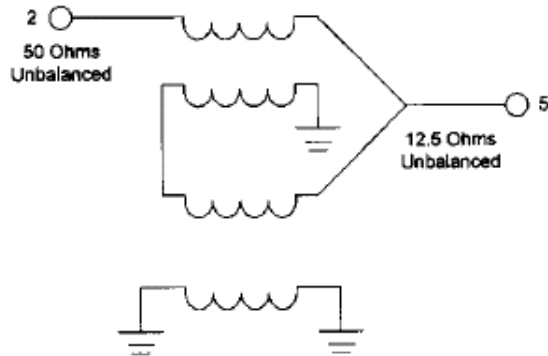
## Features

- 50 Ohms Unbalanced/12.5 Ohms Unbalanced
- Low VSWR: 1.1:1 Typical
- Low Insertion Loss: 0.4 dB Typical
- MIL-STD-202 Screening Available

## Description

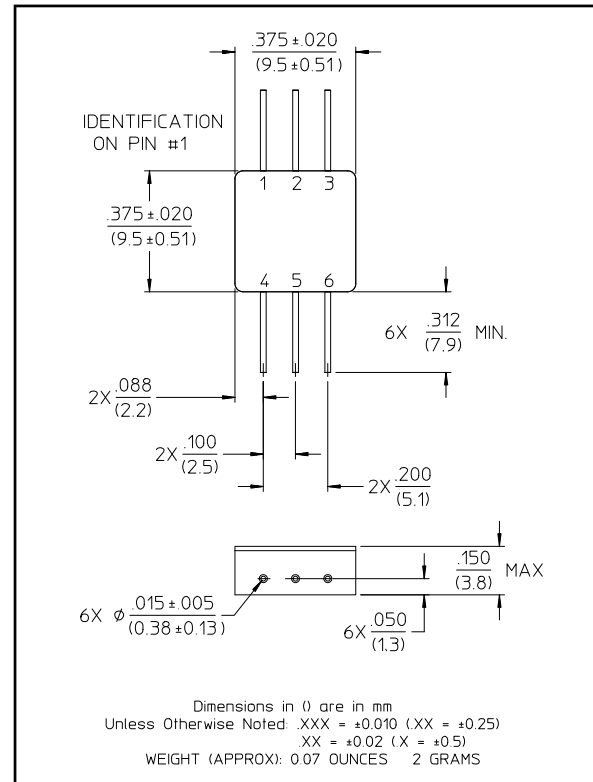
The transformer coupled balun can provide a wide frequency range. DC isolation from primary coil to secondary coil is also a feature of this device.

## Schematic/Pin Configuration



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

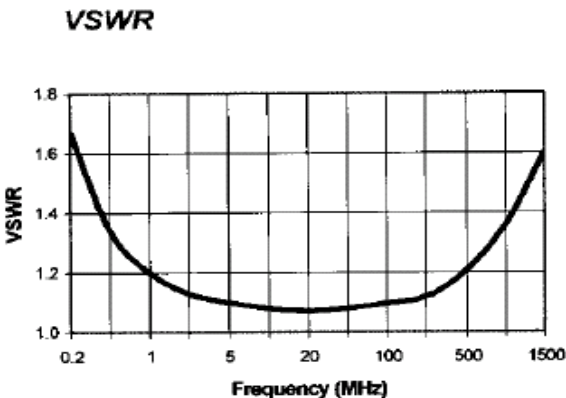
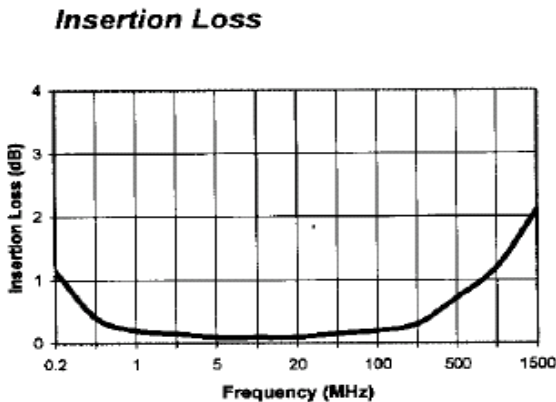
## FP-1



## 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<br>Output - 12.5 Ohms Unbalanced | —                                                 | —                       | —           | —           | —                    |
| Insertion Loss | —                                                           | 10 - 50 MHz                                       | dB                      | —           | —           | 0.5                  |
| VSWR           | —                                                           | 1 MHz - 500 MHz<br>500 KHz - 1 GHz                | Ratio<br>Ratio          | —<br>—      | —<br>—      | 1.4:1<br>1.6:1       |
| Input Power    | —                                                           | 500 KHz - 1 MHz<br>1 MHz - 5 MHz<br>5 MHz - 1 GHz | Watts<br>Watts<br>Watts | —<br>—<br>— | —<br>—<br>— | 0.375<br>0.75<br>1.5 |
| Rise Time      | 10 - 90%                                                    | —                                                 | nS                      | —           | 0.3         | —                    |
| Droop (10%)    | —                                                           | —                                                 | nS                      | —           | 350         | —                    |

Typical Performance Curves



Ordering Information

| Part Number | Package |
|-------------|---------|
| TP-105 PIN  | FP-1    |