

# RF Pulse Transformer, 500 KHz - 1 GHz

Rev. V3

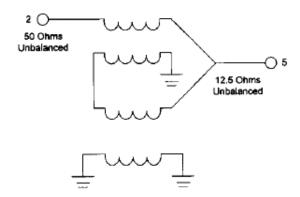
### **Features**

- 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**

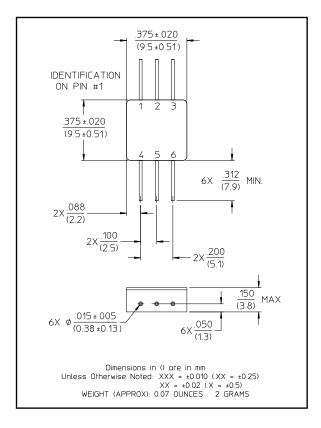
The transformer coupled balun can provide a wide frequency range. DC isolation from primary coil to secondary coil is also a feature of this device.

### **Schematic/Pin Configuration**



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

### FP-1



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Impedance	Input - 50 Ohms Unbalanced Output - 12.5 Ohms Unbalanced	_	_	_	_	_
Insertion Loss	_	10 - 50 MHz	dB	_	_	0.5
VSWR	_	1 MHz - 500 MHz 500 KHz - 1 GHz	Ratio Ratio	_	_	1.4:1 1.6:1
Input Power		500 KHz - 1 MHz 1 MHz - 5 MHz 5 MHz - 1 GHz	Watts Watts Watts			0.375 0.75 1.5
Rise Time	10 - 90%	_	nS	_	0.3	_
Droop (10%)	_	_	nS	_	350	_

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

<sup>•</sup> China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

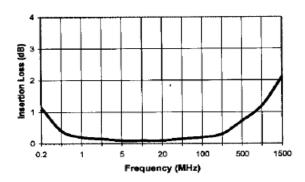


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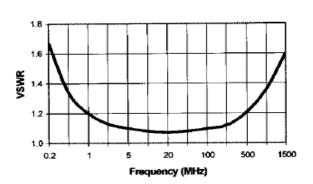
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## **Typical Performance Curves**

### Insertion Loss



### **VSWR**



# **Ordering Information**

Part Number	Package		
TP-105 PIN	FP-1		