TP-108

RF Pulse Transformer,
350 - 1125 MHz

Features
- 50 Ohms Unbalanced to Dual 100 Ohms Unbalanced
- Unbalanced or 200 Ohms Balanced
- Low Insertion Loss
- Accessible Center Tap for DC Bias
- 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

![Schematic Image]

FP-1

![FP-1 Image]

Electrical Specifications: \( T_A = -55°C \) to \( +85°C \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Frequency</th>
<th>Units</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>Input - 50 Ohms Unbalanced</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>Output - 200 Ohms Balanced</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>—</td>
<td>500 - 1000 MHz</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>1.0</td>
</tr>
<tr>
<td>VSWR</td>
<td>—</td>
<td>500 MHz - 1000 MHz</td>
<td>Ratio</td>
<td>—</td>
<td>—</td>
<td>1.5:1</td>
</tr>
<tr>
<td></td>
<td>350 MHz - 1125 MHz</td>
<td>Ratio</td>
<td></td>
<td>—</td>
<td>—</td>
<td>2.5:1</td>
</tr>
<tr>
<td>Input Power</td>
<td></td>
<td>350 MHz - 1125 MHz</td>
<td>Watts</td>
<td>—</td>
<td>—</td>
<td>3.0</td>
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</tbody>
</table>

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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.

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Typical Performance Curves

**Insertion Loss**

![Insertion Loss Graph]

**VSWR**

![VSWR Graph]

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-108 PIN</td>
<td>FP-1</td>
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