TP-108

RF Pulse Transformer,
350 - 1125 MHz

Rev. V3

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

```
Pin 1, 3 are grounded to case
Pin 5 is to be extremly biased or grounded
```

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></td>
<td>350 MHz - 1125 MHz</td>
<td>Ratio</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>
</tr>
</tbody>
</table>

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions Inc. is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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Visit www.macomtech.com for additional data sheets and product information.
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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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</tbody>
</table>

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