RF Pulse Transformer
750 kHz - 400 MHz

Features
- 50 Ω Unbalanced / 200 Ω Balanced
- 0.4 dB Insertion Loss
- DC Isolation: Input to Output
- MIL-STD-202 Screening Available

Applications
- Aerospace & Defense
- ISM

Description
The flux coupled Balun Transformer can provide a wide range of impedance ratios: 1:1, 4:1, 9:1 and 16:1 are most common. DC isolation from primary coil to secondary coil is also a feature of this device.

Electrical Specifications: $T_A = -55^\circ C - +85^\circ C$

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Units</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>Input: Unbalanced Output: Balanced</td>
<td>Ω</td>
<td>—</td>
<td>50</td>
<td>—</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>10 - 50 MHz</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>0.55</td>
</tr>
<tr>
<td>VSWR</td>
<td>5 - 200 MHz</td>
<td>Ratio</td>
<td>—</td>
<td>—</td>
<td>1.3:1</td>
</tr>
<tr>
<td></td>
<td>750 kHz - 400 MHz</td>
<td></td>
<td></td>
<td></td>
<td>2.0:1</td>
</tr>
<tr>
<td>Input Power</td>
<td>750 kHz - 400 MHz</td>
<td>W</td>
<td>—</td>
<td>—</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>4 - 400 MHz</td>
<td></td>
<td></td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>Rise Time</td>
<td>10% - 90%</td>
<td>ns</td>
<td>—</td>
<td>0.55</td>
<td>—</td>
</tr>
<tr>
<td>Droop (10%)</td>
<td>—</td>
<td>ns</td>
<td>—</td>
<td>130</td>
<td>—</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-104-PIN</td>
<td>tape &amp; reel</td>
</tr>
</tbody>
</table>

For further information and support please visit:
https://www.macom.com/support
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Typical Performance Curves

**Insertion Loss**

![Insertion Loss Graph](image)

**VSWR**

![VSWR Graph](image)

**Outline (FP-1)**

![Outline Diagram](image)

Dimensions in 0 are in mm:
- Unless Otherwise Noted: XXX = ±0.010 (XX = ±0.025)
- WEIGHT (APPROX.): 0.07 OUNCE(S) 2 GRAMS

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