PPI Broadband Resistors are specifically designed to operate at frequencies up to 67 GHz. With special microwave laser-trimming used to ensure a tight tolerance at high frequencies, these Broadband Resistors are wire bondable and solderable, or can be used in a flip-chip configuration.

◆ Applications
- Optical Transceiver Modules
- Broadband Receiver
- TOSA/ROSA
- Broadband Test Equipment
- Low Noise Amplifiers
- MMIC Amplifiers

◆ Markets
- Opto-Electronics
- Telecom
- Broadband
- Military
- Satellite Communication

◆ Product Features

<table>
<thead>
<tr>
<th>Case Size</th>
<th>Std Resistance</th>
<th>Resistance</th>
<th>Power*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1209 (.012” x .009”)</td>
<td>50 Ω/100 Ω</td>
<td>4-500 Ω</td>
<td>400 mW max</td>
</tr>
<tr>
<td>2010 (.020” x .010”)</td>
<td>50 Ω/100 Ω</td>
<td>3-1000 Ω</td>
<td>800 mW max</td>
</tr>
</tbody>
</table>

◆ Specifications
- Operating Frequency: DC to 67 GHz
- Insertion Loss: 3.5dB ± 2dB typical
- Operating Temperature Range: 55°C to +150°C
- Temperature Coefficient: ±150 ppm/°C
- Insulation Resistance: 10¹²Ω min at 25°C
- Resistance Tolerance: ±1% (Standard)
- Substrates Available: Alumina Al₂O₃
- Metallization (other metallizations available upon request): Titanium/Platinum/Gold (Ti/Pt/Au)

◆ Performance Charts—
Insertion and Return Loss Charts for Case Size: 1209 on Al₂O₃ Substrate

*Substrate Dependent

Recessed Pad (R1)
- Best for wire bonding

Full Pad (R2) *Only available on 1209 case sizes
- Best for Soldering or Epoxy

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