**Product Features**

<table>
<thead>
<tr>
<th>Case Size</th>
<th>Std. Resistance</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1209 mils</td>
<td>100Ω</td>
<td>50 mW</td>
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</tbody>
</table>

**Specifications**

- **Operating Frequency**: DC to 67 GHz
- **Insertion Loss**: 6.0 dB ± 2dB typical
- **Operating Temperature Range**: 55°C to +150°C
- **Resistive Material**: Tantalum Nitride (TaN)
- **Temperature Coefficient**: ±150 ppm/°C standard
- **Resistance Tolerance**: ±1% standard
- **Substrate**: Alumina (Al₂O₃); other substrates available
- **Metallization**: A = Tantalum/Palladium/Gold (Ta/Pd/Au)  
  R = Titanium/Platinum/Gold (Ti/Pt/Au)

**Packaging**
Parts are available in Waffle Packs.
Contact PPI for additional packaging options.

**Mechanical Dimensions**

- L = 0.012” ± 0.001” (0.305mm ± 0.051mm)
- W = 0.009” ± 0.001” (0.229mm ± 0.051mm)
- H = 0.005” ± 0.001” (0.127mm ± 0.025mm)

**Test Conditions**

Typical responses for sample placed across a 0.127 mm (5.0 mil) gap between 0.29 mm (11.3 mil) wide, 0.21 mm (8.3 mil) long mounting pads on 4-mil Rogers RO4350B. Measured and modeled data are de-embedded to the mounting pad edges using TRL calibration procedures.

**Part Numbering**

<table>
<thead>
<tr>
<th>R 35-1209 BB 100R0 F R1 Q C</th>
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</thead>
</table>

- **Power Handling**:  
  C = 50mW
- **TCR**: Q = ±150ppm/°C
- **Style**: 1 or 2  Both styles Flip Chip Configuration compatible
- **Metallization**: R: For Soldering; A: For wirebonding
- **Tolerance**: F = ±1%
- **Resistance Value**: 100Ω = 100R0; Digits 1-4 are significant, Digit 5 is number of zeros to follow
- **Broadband**: BB
- **Size**: 0.012” x 0.009”
- **Material**: 35 = Alumina
- **Resistor**

**Performance Curves**

- **Insertion and Return Loss Charts**

**Contact Information**

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RoHS