**Broadband Resistors**

**R35-1209BB50R00FxxQC**

**◆ 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>50Ω</td>
<td>50 mW</td>
</tr>
</tbody>
</table>

**◆ Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Frequency</td>
<td>DC to 67 GHz</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>3.5 dB ± 2dB typical</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>55°C to +150°C</td>
</tr>
<tr>
<td>Resistive Material</td>
<td>Tantalum Nitride (TaN)</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>±150 ppm/°C standard</td>
</tr>
<tr>
<td>Resistance Tolerance</td>
<td>±1% standard</td>
</tr>
<tr>
<td>Substrate</td>
<td>Alumina (Al₂O₃); other substrates available</td>
</tr>
<tr>
<td>Metallization</td>
<td>A = Tantalum/Palladium/Gold (Ta/Pd/Au)</td>
</tr>
<tr>
<td></td>
<td>R = Titanium/Platinum/Gold (T/Pt/Au)</td>
</tr>
</tbody>
</table>

**◆ Packaging**

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

**◆ Mechanical Dimensions**

\[
L = 0.012" \pm 0.001" \ (0.305mm \pm 0.051mm) \\
W = 0.009" \pm 0.001" \ (0.229mm \pm 0.051mm) \\
H = 0.005" \pm 0.001" \ (0.127mm \pm 0.025mm)
\]

**◆ Test Conditions**

Typical responses for sample placed across a 0.076 mm (3.0 mil) gap between 0.203 mm (8.0 mil) wide mounting pads on 4-mil Rogers RO4350B. Measured data is de-embedded to the mounting pad edges using TRL calibration procedures.

**◆ Part Numbering**

```
R 35-1209 BB 50R00 F R1 Q C
```

- **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:** 50Ω = 50R00;
  - Digits 1-4 are significant; Digit 5 is number of zeros to follow

- **Broadband:** BB

- **Size:** .012” x .009”

- **Material:** 35 = Alumina

- **Resistor**

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