



# Broadband Resistors

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**

Case Size mils	Std Resistance	Resistance	Power*
1209 (.012" x .009")	50 Ω / 100 Ω	4 - 500 Ω	400 mW max
2010 (.020" x .010")	50 Ω / 100 Ω	3 - 1000 Ω	800 mW max

\* Substrate Dependent

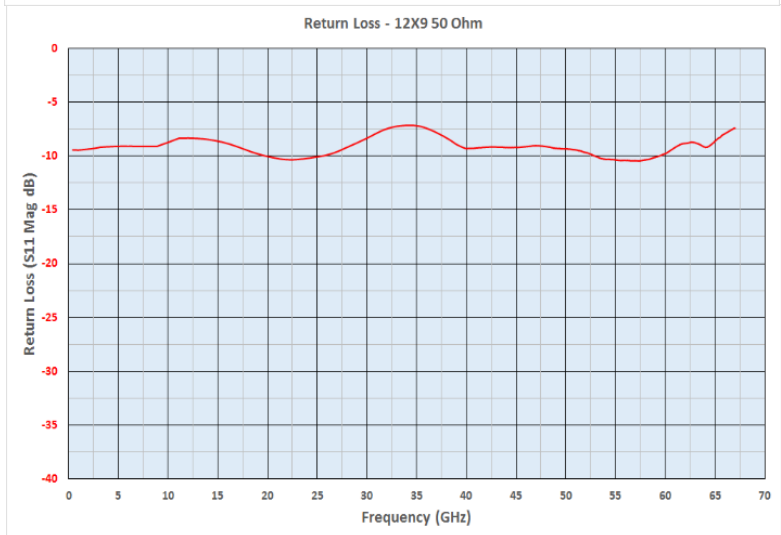
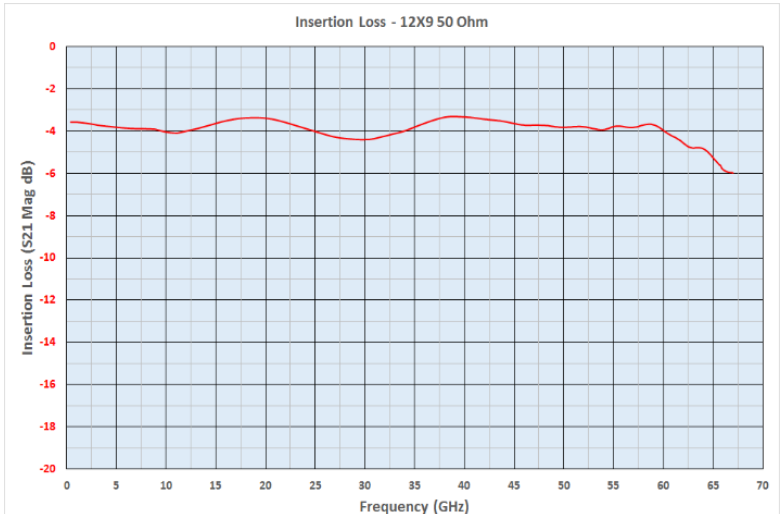
◆ **Specifications**

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	10 <sup>12</sup> Ω min at 25°C
Resistance Tolerance	±1% (Standard)
Substrates Available	Alumina Al <sub>2</sub> O <sub>3</sub>
Metallization (other metallizations available upon request)	Titanium/Platinum/Gold (Ti/Pt/Au)

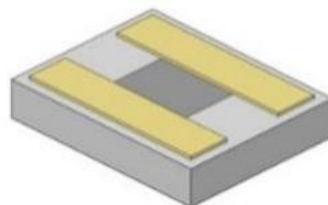
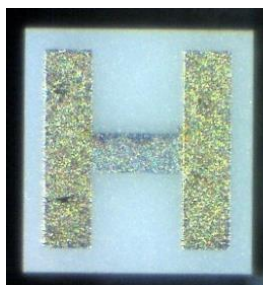
\*Standard

◆ **Performance Charts–**

**Insertion and Return Loss Charts  
for Case Size: 1209 on Al<sub>2</sub>O<sub>3</sub> Substrate**

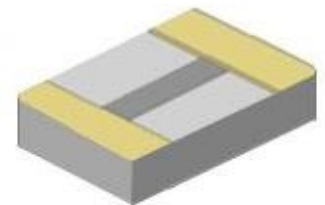
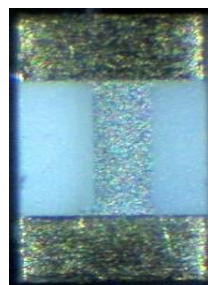


**Recessed Pad (R1)**



Best for wire bonding

**Full Pad (R2)** \*Only available on 1209 case sizes



Best for Soldering or Epoxy