



R35-1209BB100R0Fx1QC

----Product Features

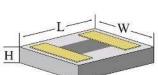
Case Size	Std. Resistance
1209	100Ω

-----Mechanical Dimensions

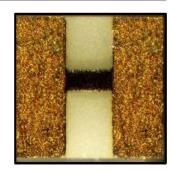
$L=~0.012"\pm 0.001"~(0.305mm\pm 0.051mm)$
$W = 0.009" \pm 0.001"$ ($0.229mm \pm 0.051mm)$
$H = 0.005" \pm 0.001" \ (0.127 mm \pm 0.025 mm)$



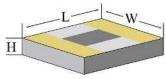
Style: 1 Recessed Pad

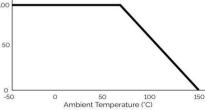


1% standard tolerance (other tolerances available)



Style: 2 Full Pad





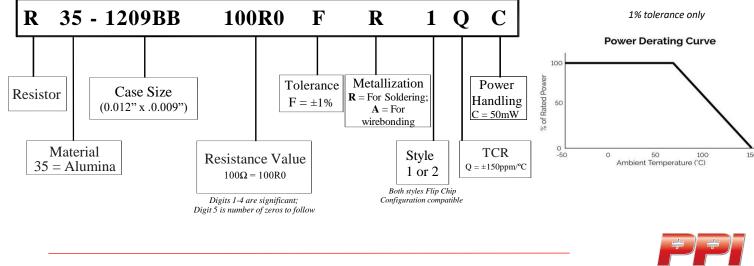
Passive Plus RF & Microwave Components

----Specifications

Operating Frequency	DC to 67 GHz
Operating Temperature Range	-55°C to +150°C
Resistive Material	Tantalum Nitride (TaN)
Temperature Coefficient	±150 ppm/°C standard
Resistance Tolerance	$\pm 1\%$ standard
Substrate	Alumina (Al ₂ O ₃) other substrates available
Metallization	A = Tantalum/Palladium/Gold (TaN/Pd/Au) R = Titanium/Platinum/Gold (Ti/Pt/Au)
Power Derating See Chart at Right	Full power up to 70°C Derated linearly to zero power at 150°C

*All PPI Thin Film parts are Non-Magnetic

----Part Numbering



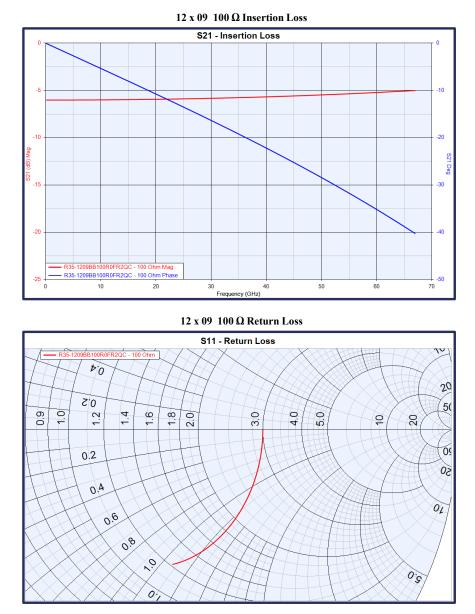
sales@passiveplus.com R351209BB100R0FxxQCData032524RevA





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----Performance Curves - Insertion and Return Loss Charts



-w-Simulated Test Conditions / Pad Dimensions / Dielectric

Modelithics calculated data for 50 Ohm and 100 Ohm resistors from 0.1 to 67.0 GHz on 4 mil Rogers 4350B, Dielectric constant = 4.15. The pad dimensions used to develop the datasheet plots were: Length = 4.0 (0.102), Width = 10.0 (0.254), Gap = 5.0 (0.127). Units in mil (mm). Reference planes were at the pad edges.

---- Packaging

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

