

R35-1209BB50R00Fx1QC

-w-Product Features

-w-Specifications

Case Size	Std. Resistance
1209	50Ω

-w- Mechanical Dimensions

 $L = 0.012" \pm 0.001" (0.305mm \pm 0.051mm)$

W = 0.009" ± 0.001 " (0.229mm ± 0.051 mm)

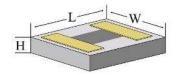
H = 0.005" ± 0.001 " (0.127mm ± 0.025 mm)



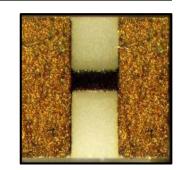
Style: 1 Recessed Pad

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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	±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
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 $[*]All\ PPI\ Thin\ Film\ parts\ are\ Non-Magnetic$

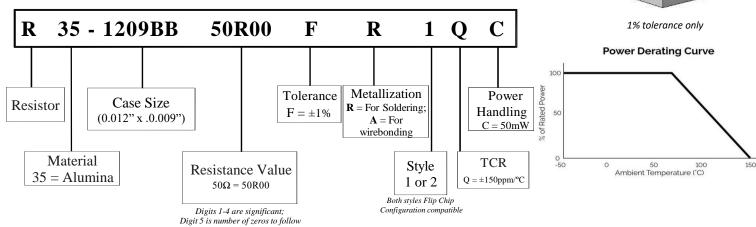


1% standard tolerance (other tolerances available)



Style: 2 Full Pad

-w-Part Numbering

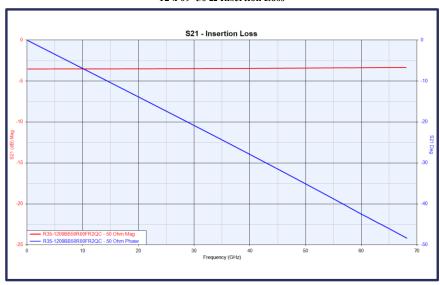




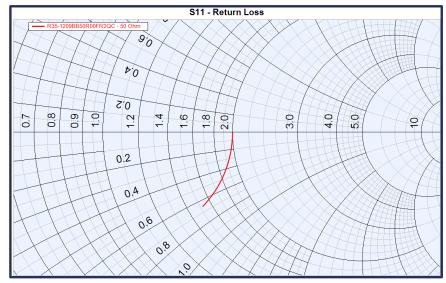
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-w-Performance Curves - Insertion and Return Loss Charts

12 x 09 50 Ω Insertion Loss



12 x 09 50 Ω Return Loss



-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.

-w-Packaging

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

