



R35-2010BB50R00Fx1QE

----Product Features

Case Size	Std. Resistance
2010	50Ω

----Mechanical Dimensions

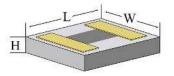
$L=~0.020"\pm 0.002"~(0.508mm\pm 0.051mm)$
$W = 0.010" \pm 0.001" \ (0.254mm \pm 0.051mm)$
$H = 0.010" \pm 0.001"$ (0.254mm ± 0.025 mm)



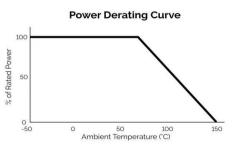
----Specifications

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



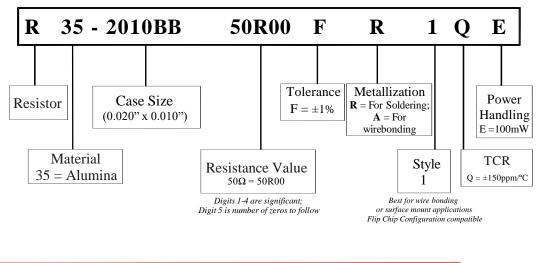


1% standard tolerance (other tolerances available)



*All PPI Thin Film parts are Non-Magnetic

----Part Numbering



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sales@passiveplus.com R352010BB50R00Fx1QEData032524RevA

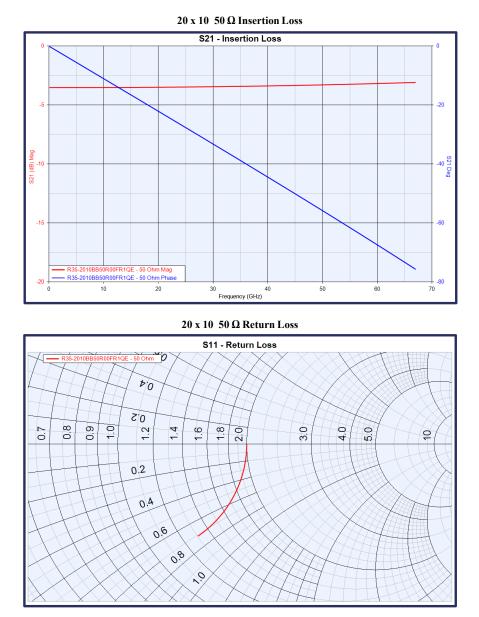






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----Performance Curves - Insertion and Return Loss Charts



-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 = 13.0 (0.330). Units in mil (mm). Reference planes were at the pad edges.

---- Packaging

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

