

R35-2010BB50R00Fx1QE

-w- Product Features

Specifications

Operating Frequency

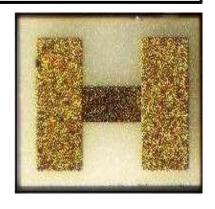
Case Size	Std. Resistance
2010	50Ω

-w- Mechanical Dimensions

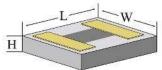
 $L = 0.020" \pm 0.002" (0.508mm \pm 0.051mm)$

W = 0.010" ± 0.001 " (0.254mm ± 0.051 mm)

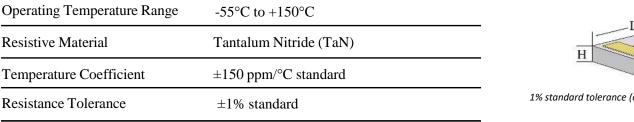
H = 0.010" ± 0.001 " $(0.254 \text{mm} \pm 0.025 \text{mm})$



Style: 1 Recessed Pad



1% standard tolerance (other tolerances available)



Substrate Alumina (Al₂O₃)

other substrates available

DC to 67 GHz

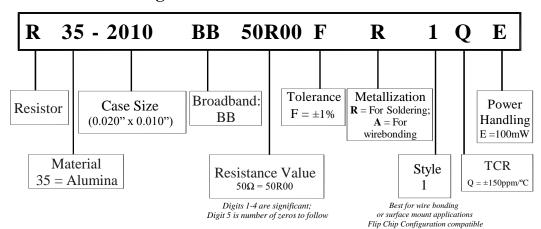
Metallization A = Tantalum/Palladium/Gold (TaN/Pd/Au) R = Titanium/Platinum/Gold (Ti/Pt/Au)

Power Derating Full power up to 70°C

See Chart at Right Derated linearly to zero power at 150°C

Power Derating Curve

-w- Part Numbering



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



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-w- Performance Curves - Insertion and Return Loss Charts

20 x 10 50 \(\Omega \) Insertion Loss

\$21 - Insertion Loss

-20

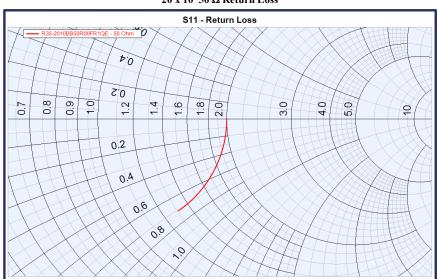
-20

-20

-40 \(\frac{82}{9} \)
-15

 $20 \times 10 50 \Omega$ Return Loss

40 Frequency (GHz)



-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.

-w- Packaging

Parts are available in Waffle Packs and Tape & Reel. Contact PPI for additional packaging options.

