

**RoHS
Compliant**

**Flangeless Resistor
150 Watts, 100Ω**



General Specifications

Resistive Element	Thick film
Substrate	Beryllium oxide ceramic
Cover	Alumina ceramic
Mounting Flange	Copper, nickel plated per QQ-N-290
Lead(s)	99.9% pure silver (.005" thick)
Operating Temperature	-55 to +150°C (see de rating chart)

Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

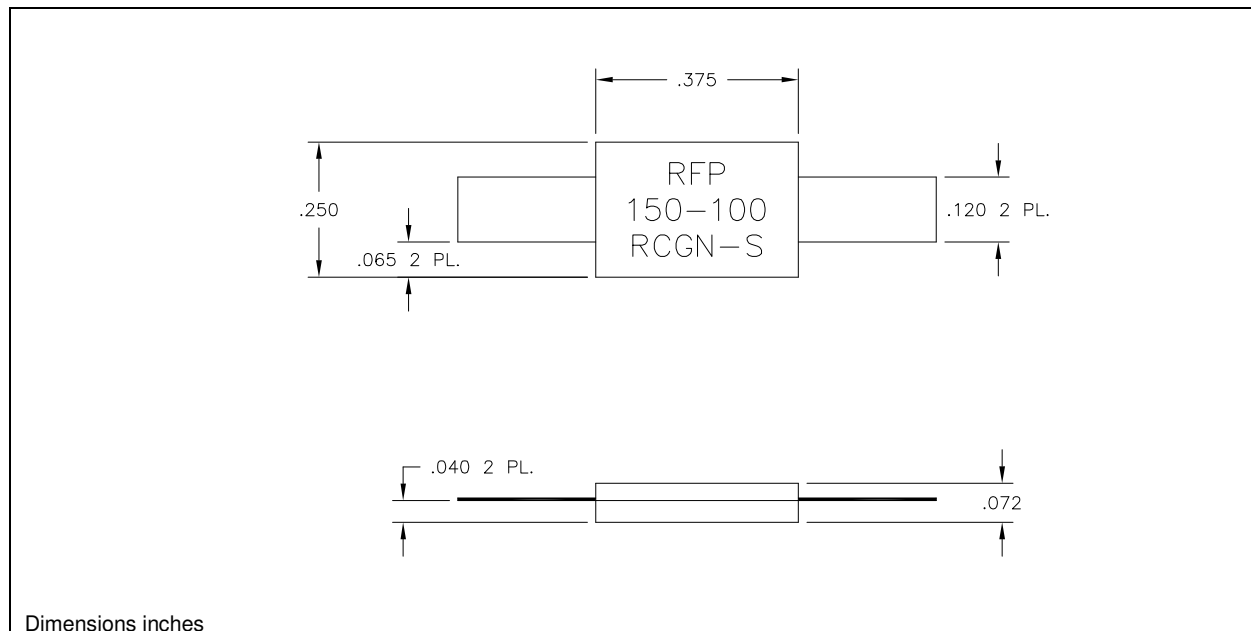
Resistance Value:	100 Ohms, $\pm 5\%$
Power:	150 Watts
Frequency Range:	DC – 2.0 GHz
Capacitance	3.5 pF

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Features:

- 150 Watts
- DC – 2.0 GHz
- Beryllium oxide Ceramic
- Welded Silver Leads
- Non-Nichrome Resistive Element
- 100% Tested
- RoHS Compliant

Outline Drawing

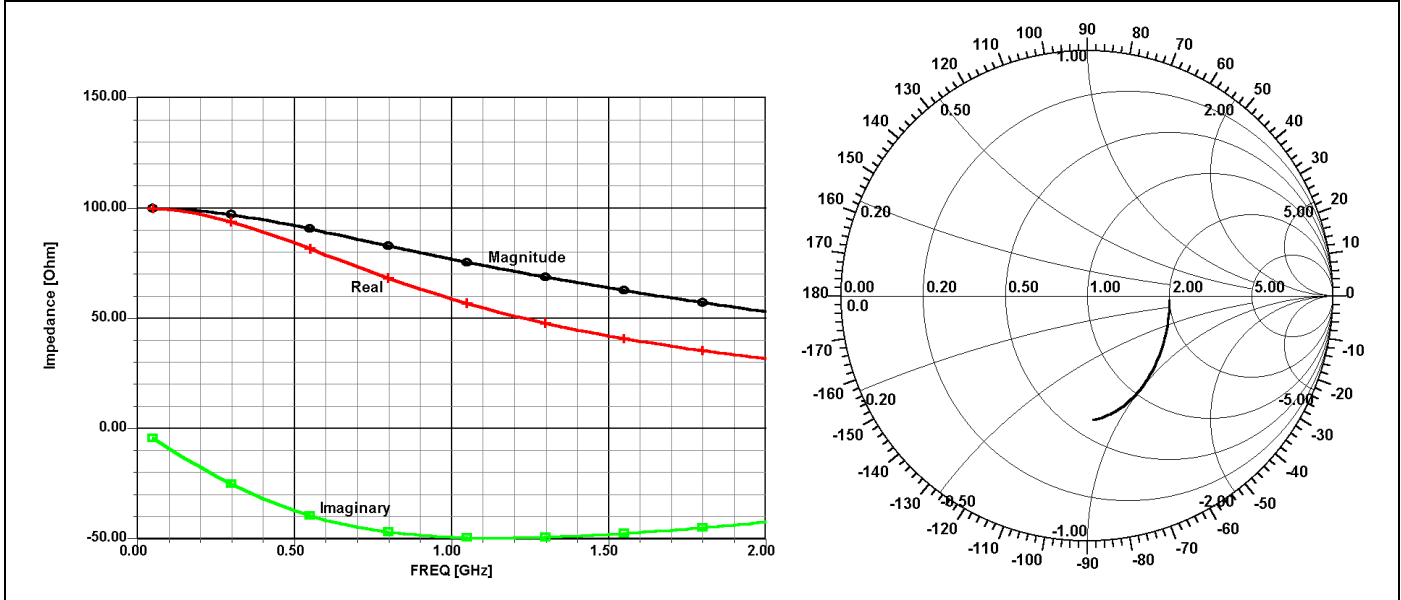


150-100RCGN-S (097) Rev B





Typical Performance:



Mounting Footprint and Procedure:

Derating:

SUGGESTED STRESS RELIEF METHODS
SCALE: NONE

NOT RECOMMENDED APPLICATION
SCALE: NONE

SUGGESTED MOUNTING PROCEDURES:

1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
2. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING AN APPROPRIATE SOLDER TYPE OR A SN96 TYPE SOLDER.
3. SOLDER LEADS IN PLACE USING SN96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON. KEEP LEAD LENGTH AS SHORT AS POSSIBLE USING A SUGGESTED STRESS RELIEF METHOD.

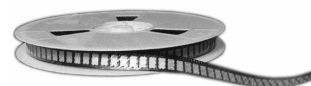
DERATING CURVE:

100% rated power is maintained up to 100°C. Above 100°C, the power rating decreases linearly to 0% at 150°C.

150-100RCGN-S (097) Rev B

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