

**RF Power**

**RoHS  
Compliant**

**Half Flange Resistor  
20 Watts, 100Ω**



### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Beryllium oxide ceramic
<b>Cover</b>	Alumina Ceramic
<b>Mounting Flange</b>	Copper, Nickel plated per QQ-N-290
<b>Lead(s):</b>	99.9% pure silver (.006" thick)
<b>Operating Temperature</b>	-55 to +150°C (see chart)

### Features:

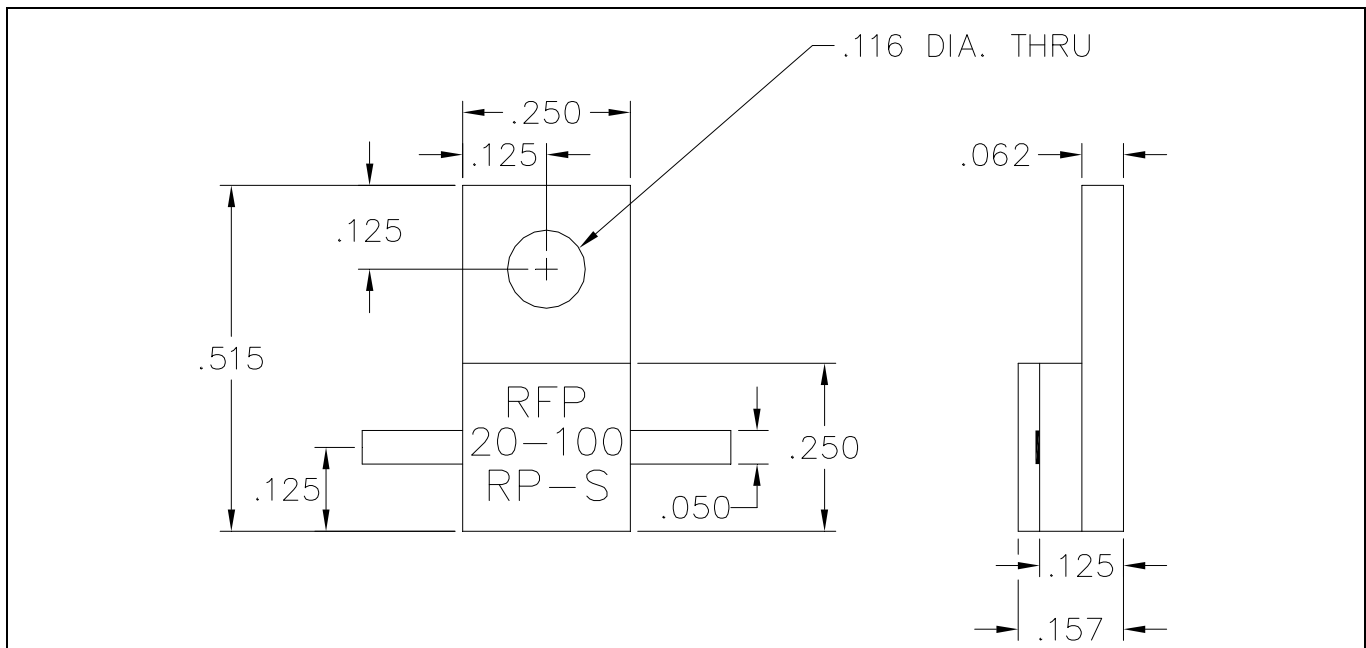
- DC – 4.0 GHz
- 20 Watts
- BeO Ceramic
- Welded Silver Leads
- Non-Nichrome Resistive Element
- 100% Tested
- ROHS Compliant

### Electrical Specifications

<b>Resistance Value:</b>	100 ohms, ± 5%
<b>Frequency Range:</b>	DC – 4.0 GHz
<b>Power:</b>	20 Watts
<b>Capacitance:</b>	1.2 pF

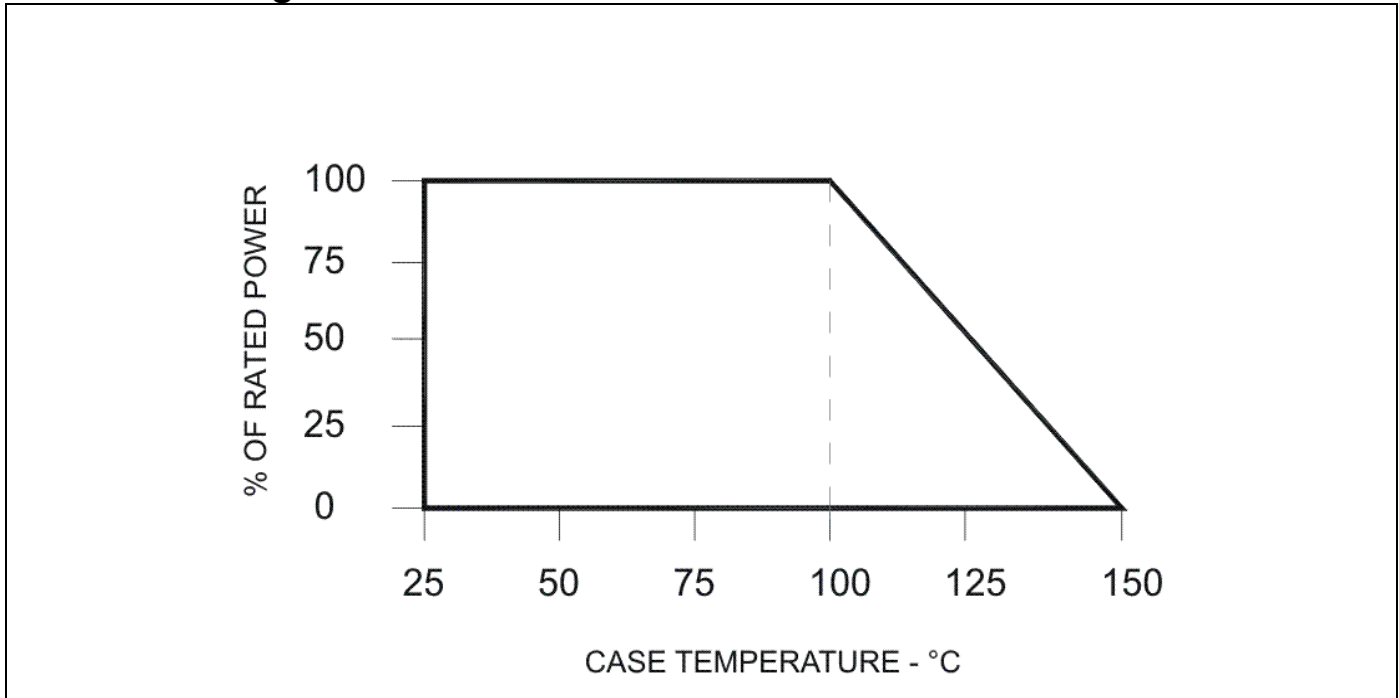
**Notes:** Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches. Lead length 0.150" minimum.  
Specifications subject to change without notice.

### Outline Drawing



20-100RP-S (097) Rev B

**Power Derating**



**Suggested Mounting Procedures**

**SUGGESTED STRESS RELIEF METHODS**

**NOT RECOMMENDED APPLICATION**

1. Make sure that the devices are mounted on flat surfaces (0.001" under the device) to optimize the heat transfer.
2. Drill & tap the heatsink for the appropriate thread size to be used.
3. Coat the heatsink with a minimum amount of high quality silicone grease (0.001" max. thickness).
4. Position the device on mounting surface and secure using socket head screws, flat & split washers. Torque screws to the appropriate value. Make sure that the device is flat against the heatsink. (Care should be taken to avoid upward pressure of the leads toward the lid).
5. Solder leads in place using an adequate solder with a controlled temperature iron.

20-100RP (097) Rev B