

**RF Power**

### Flanged Termination 800 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>Leads</b>	99% pure silver (.005" thick)

#### Electrical Specifications

<b>Resistance Range:</b>	100 ohms, $\pm 5\%$
<b>Frequency Range;</b>	DC – 500 MHz
<b>Power:</b>	800 Watts

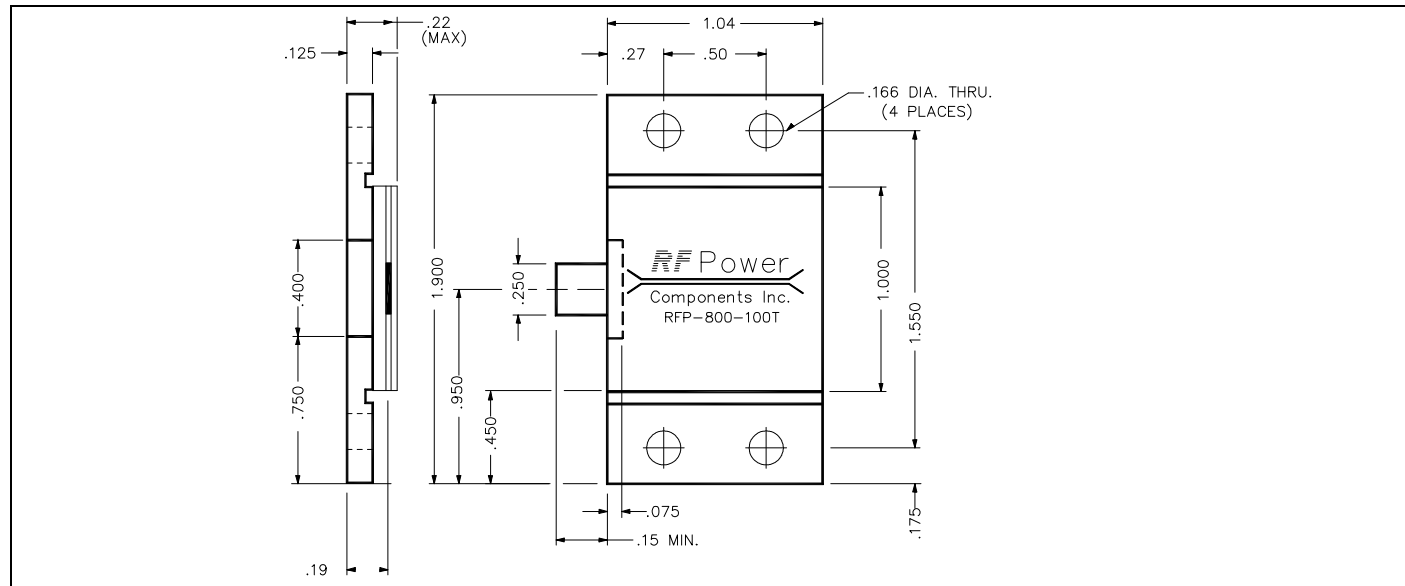
Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. Operating temperature is  $-55^{\circ}\text{C}$  to  $155^{\circ}\text{C}$  (see chart for derating temperatures). All dimensions in inches.

Specifications subject to change with out notice.

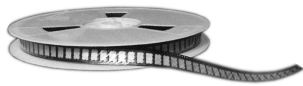
#### Features:

- DC – 500 MHz
- 800 Watts
- BeO Ceramic
- Non-Nichrome Resistive Element
- Welded Silver Leads
- 100% Tested
- RoHS Compliant

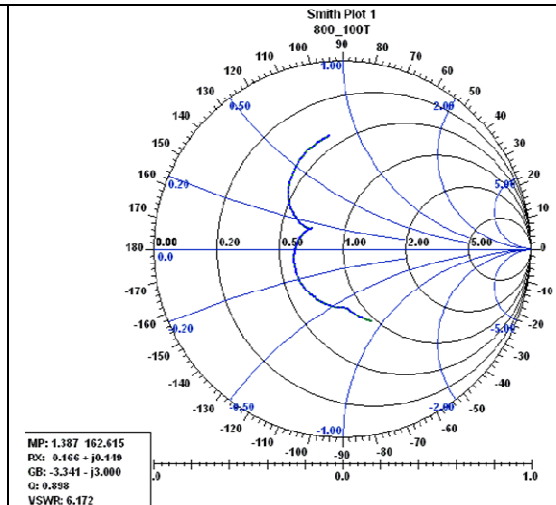
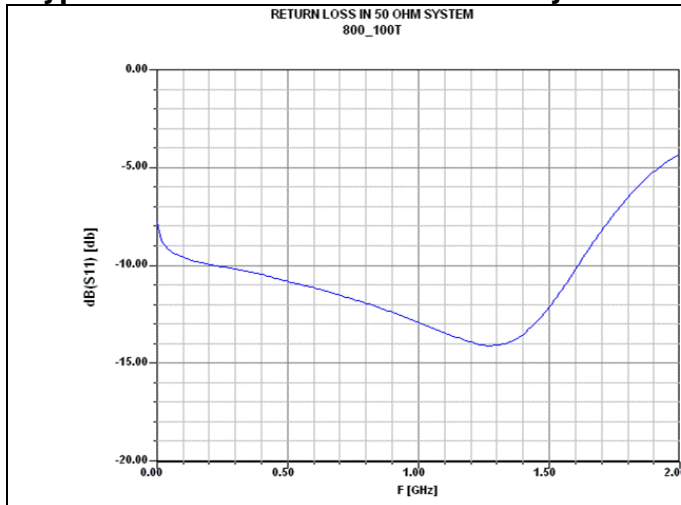
#### Outline Drawing



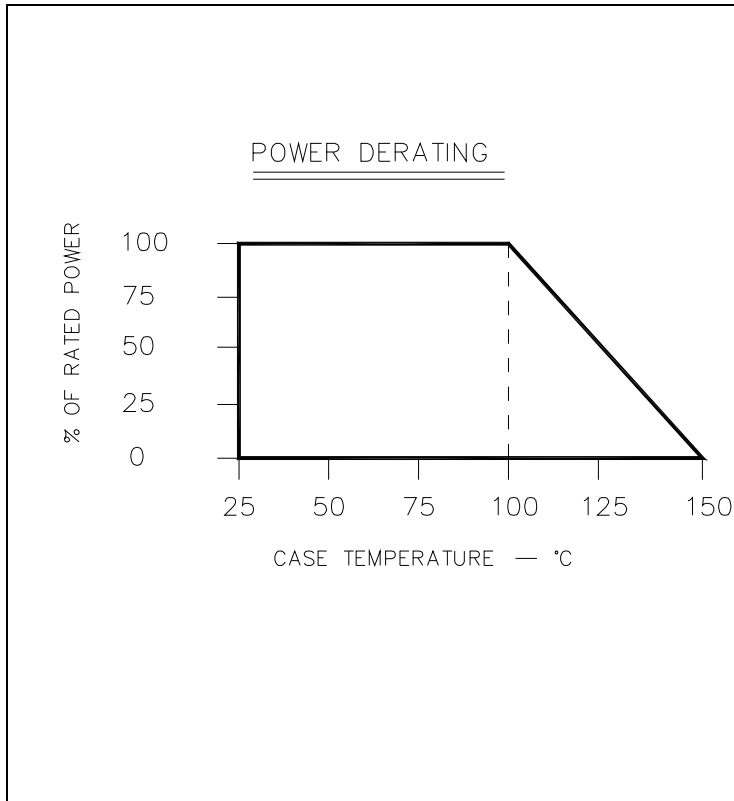
800-100T (097) Rev A



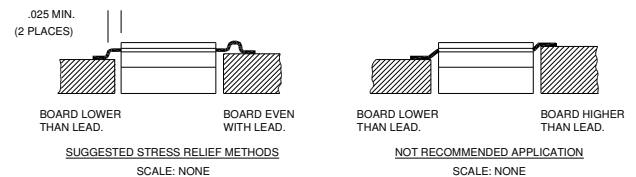
### Typical Performance in a 50 ohm system:



### Power Derating:



### Mounting Footprint and Procedure



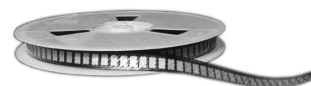
#### SUGGESTED MOUNTING PROCEDURES:

1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
2. DRILL & TAP THE HEATSINK FOR THE APPROPRIATE THREAD SIZE TO BE USED.
3. COAT HEATSINK WITH A MINIMUM AMOUNT OF HIGH QUALITY SILICONE GREASE (.001" MAX. THICKNESS).
4. POSITION DEVICE ON MOUNTING SURFACE & SECURE USING SOCKET HEAD SCREWS, FLAT & SPLIT WASHER. 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 TOWARDS THE LID).
5. SOLDER LEADS IN PLACE USING AN APPROPRIATE TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (700°F).

800-100T (097) Rev A

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