



### Flanged Termination 20 Watts, 50Ω



#### 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>	50 ohms, $\pm 5\%$
<b>Frequency Range;</b>	DC – 6.0 GHz
<b>Power:</b>	20 Watts
<b>VSWR</b>	1.25:1 DC – 6.0 GHz

**Note:** 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  $150^{\circ}\text{C}$  (see chart for derating temperatures).

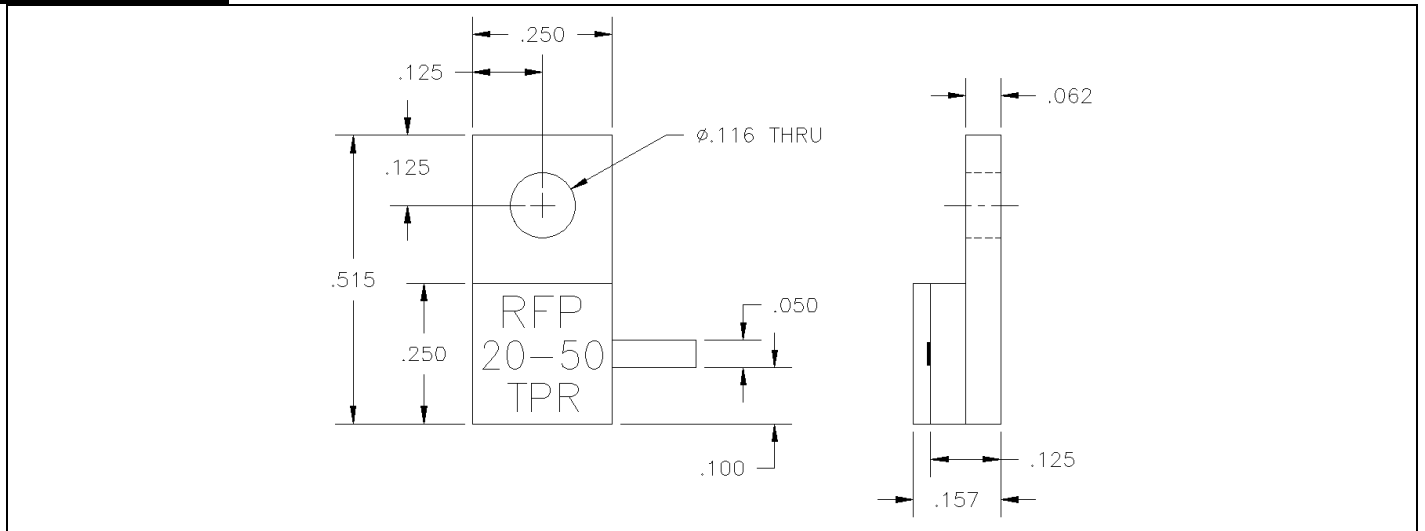
All dimensions in inches.

Specifications subject to change with out notice.

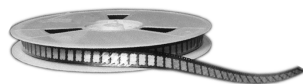
#### Features:

- DC – 6.0 GHz
- 20 Watts
- BeO Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

#### Outline Drawing

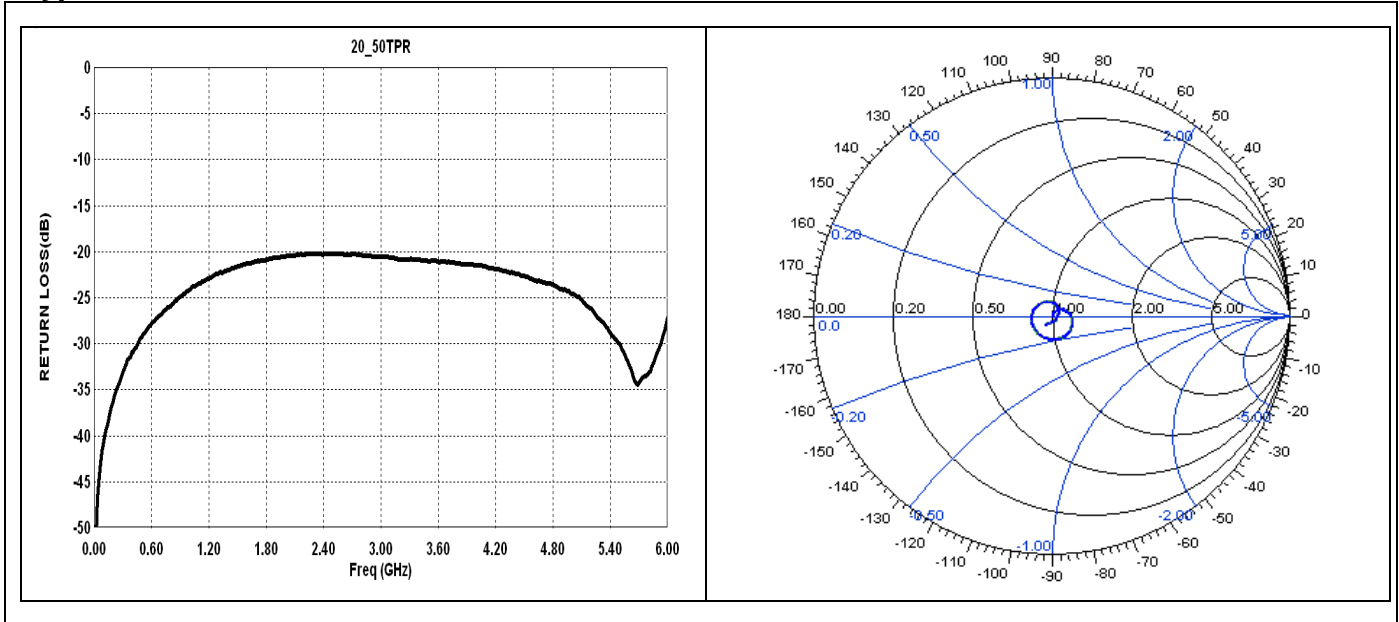


20-50TPR (097) Rev C

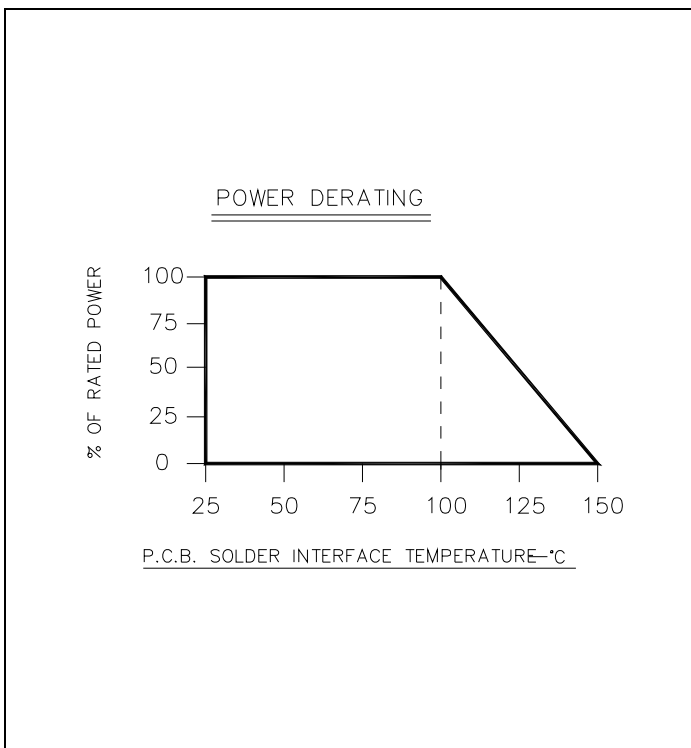




### Typical Performance:



### Power De-rating:



### Mounting Footprint and Procedure:

The diagrams show two methods for mounting the device on a PCB. The left method, labeled 'SUGGESTED STRESS RELIEF METHODS', shows the device with leads on a board that is either lower or even with the leads. The right method, labeled 'NOT RECOMMENDED APPLICATION', shows the device on a board that is either lower or higher than the leads. A dimension of .025 MIN. (2 PLACES) is indicated for the lead height.

**SUGGESTED MOUNTING PROCEDURES:**

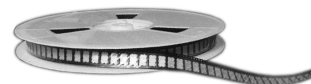
1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
2. DRILL & TAP THE HEATSINK FOR THE APPROPRIATE THREAD SIZE TO BE USED.
3. COAT HEATSINK WITH A MINIMUM AMOUNT OF HIGH QUALITY SILICONE GREASE (.001" MAX. THICKNESS).
4. POSITION DEVICE 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 APPROPRIATE SOLDER WITH A CONTROLLED TEMPERATURE IRON.

\*\* FOR MORE DETAILS CONTACT FACTORY \*\*

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