

**RF Power**

**RoHS  
Compliant**

**Flanged Termination  
20 WattS, 50Ω**



### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Alumina ceramic
<b>Mounting flange</b>	Copper, nickel plated per QQ-N-290
<b>Leads</b>	99% pure silver (.005" thick)

### Features:

- DC – 6.0 GHz
- 20 Watts
- Alumina Ceramic
- Non-Nichrome Resistive Element
- Welded Silver Leads
- Low VSWR
- 100% Tested

### Electrical Specifications

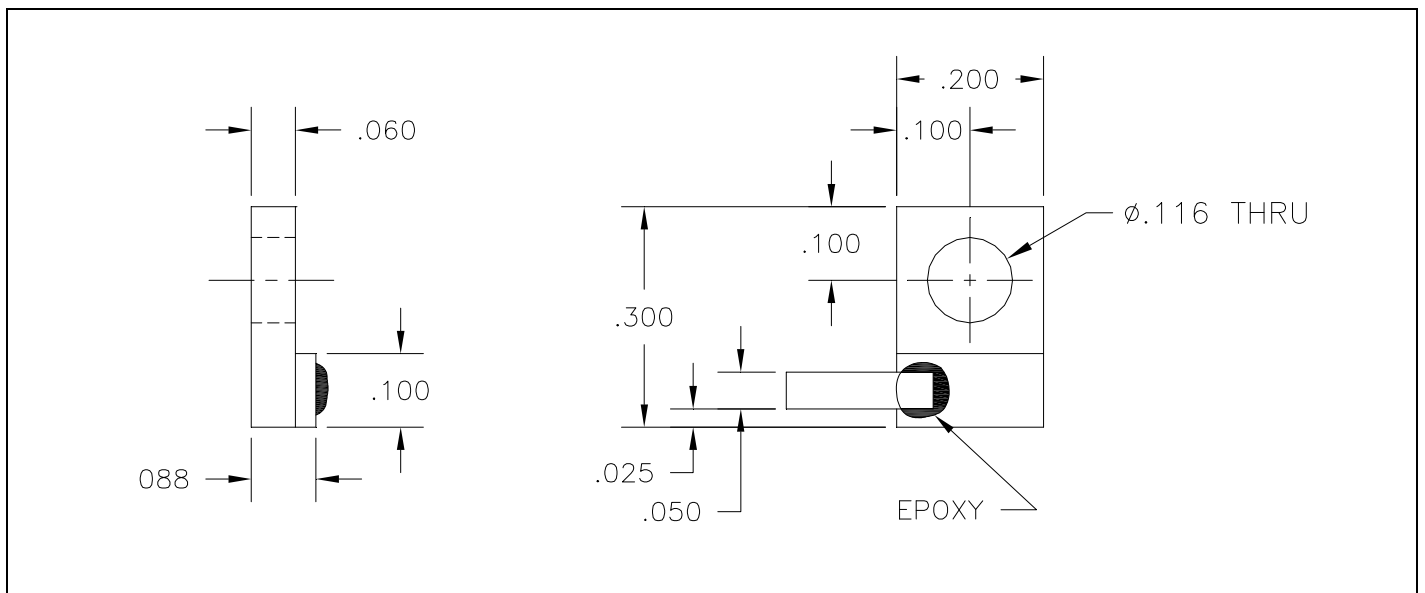
<b>Resistance Value:</b>	50 ohms, $\pm 2\%$
<b>Frequency Range;</b>	DC – 6.0 GHz
<b>Power:</b>	20 Watts
<b>VSWR:</b>	1.25:1

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).

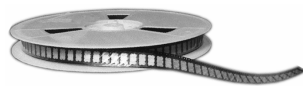
All dimensions in inches.

Specifications subject to change with out notice.

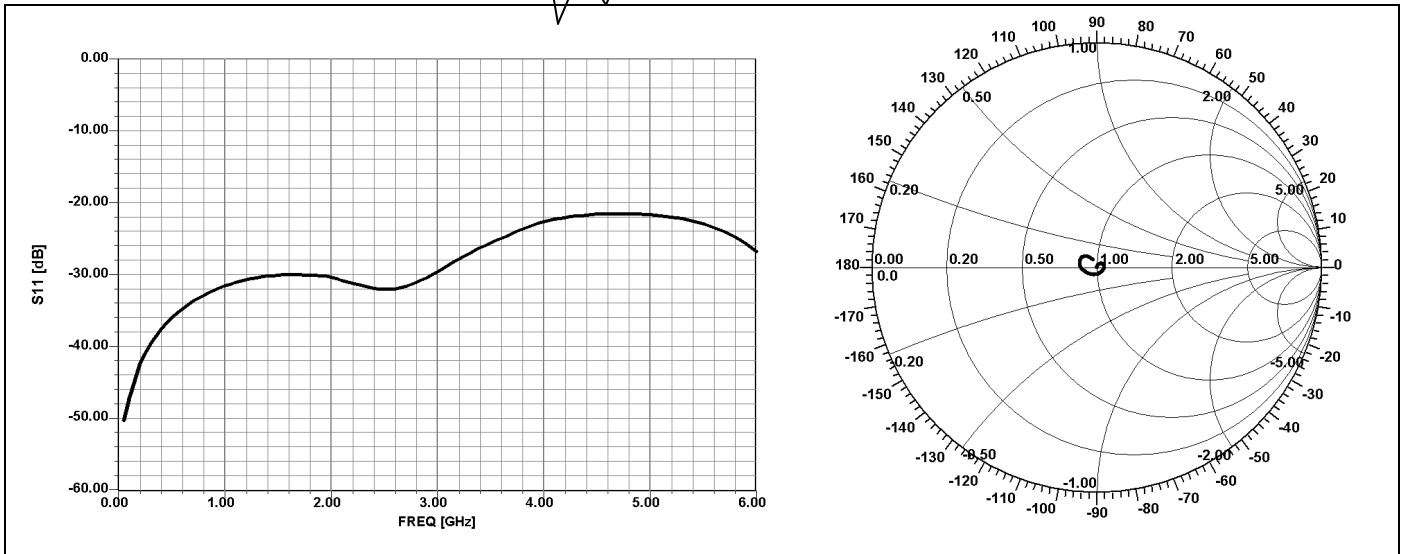
### Outline Drawing



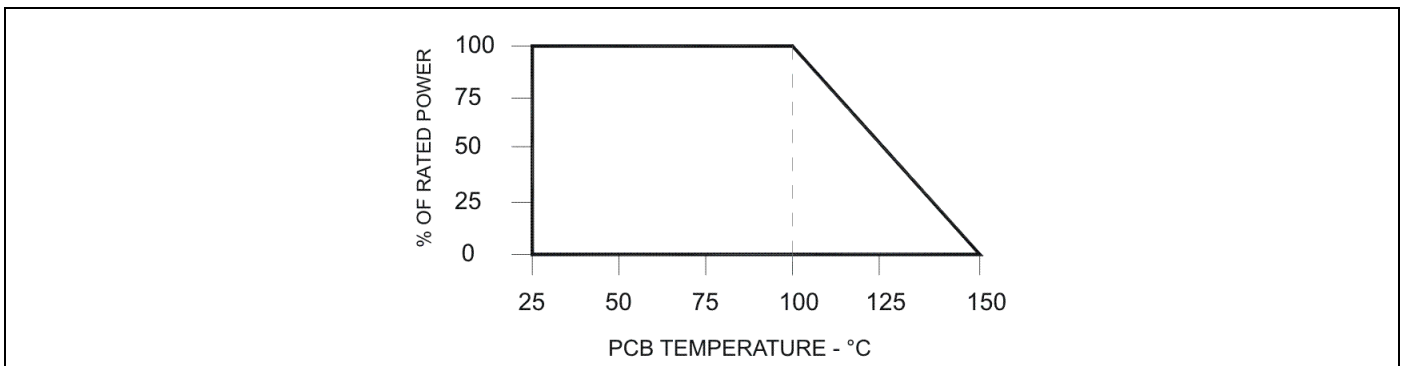
20A50TV-S (097) Rev B



## Typical Performance:



## Power De-rating:



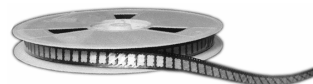
## Mounting Footprint and Procedure:

<p><b>SUGGESTED STRESS RELIEF METHODS</b> SCALE: NONE</p> <p><b>NOT RECOMMENDED APPLICATION</b> SCALE: NONE</p>	<p><b>SUGGESTED MOUNTING PROCEDURES:</b></p> <ol style="list-style-type: none"> <li>1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.</li> <li>2. DRILL &amp; TAP THE HEATSINK FOR THE APPROPRIATE THREAD SIZE TO BE USED.</li> <li>3. COAT HEATSINK WITH A MINIMUM AMOUNT OF HIGH QUALITY SILICONE GREASE (.001" MAX. THICKNESS).</li> <li>4. POSITION DEVICE ON MOUNTING SURFACE &amp; SECURE USING SOCKET HEAD SCREWS, FLAT &amp; 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).</li> <li>5. SOLDER LEADS IN PLACE USING APPROPRIATE SOLDER WITH A CONTROLLED TEMPERATURE IRON.</li> </ol> <p>** FOR MORE DETAILS CONTACT FACTORY **</p>
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20A50TV-S (097) Rev B

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