



#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Aluminum nitride ceramic
<b>Terminals</b>	Tin/Lead, 90/10 over nickel

#### Electrical Specifications

<b>Resistance Range:</b>	50 ohms, $\pm 2\%$
<b>Frequency Range;</b>	DC – 2.5 GHz
<b>Power:</b>	40 Watts
<b>VSWR</b>	1.3:1 DC – 2.5 GHz

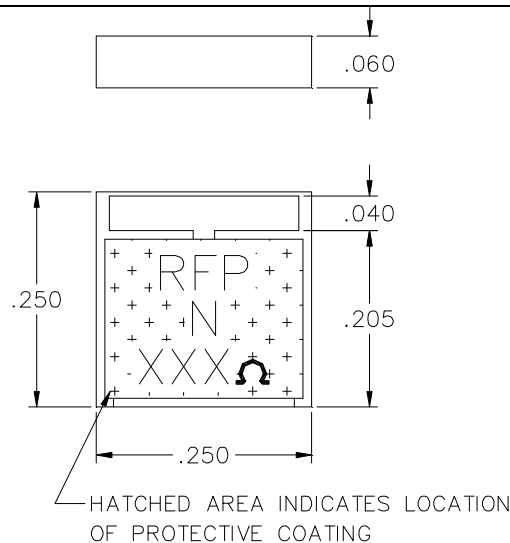
**Note:** Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. Operating temperature is  $-55^{\circ}\text{C}$  to  $150^{\circ}\text{C}$  (see chart for derating temperatures).  
All dimensions in inches.

**Specifications subject to change with out notice.**

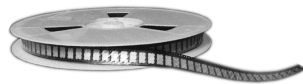
#### Features:

- DC – 2.5 GHz
- 40 Watts
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

#### Outline Drawing

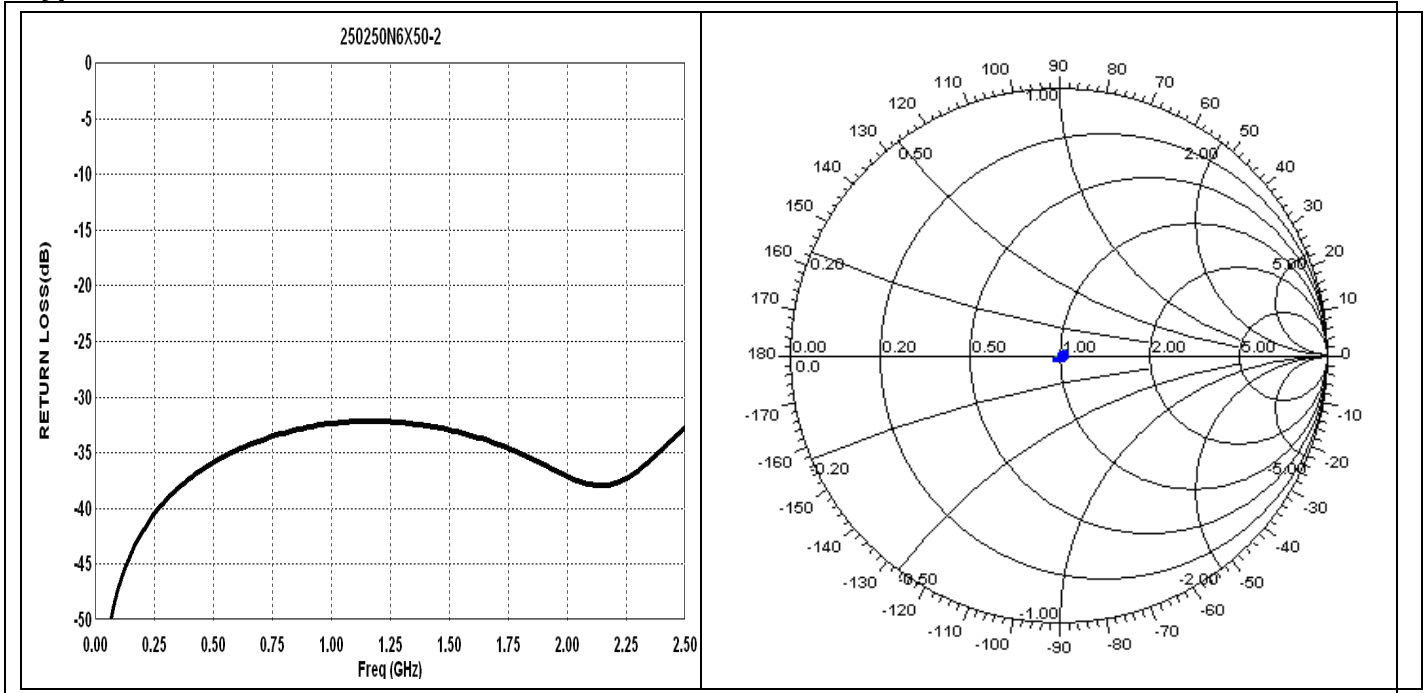


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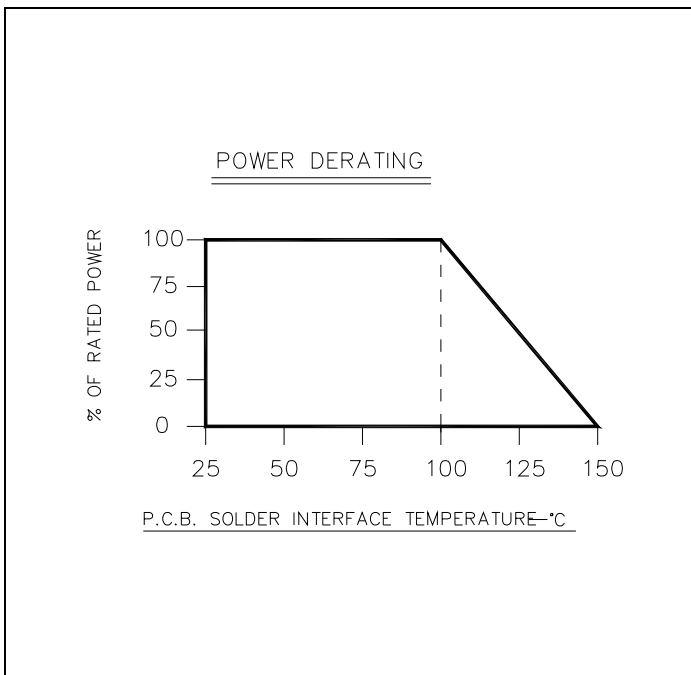




### Typical Performance:



### Power De-rating:



### Mounting Footprint and Procedure:

The diagrams show two cross-sectional views of the device on a PCB. The left view is labeled 'SUGGESTED STRESS RELIEF METHODS' and shows two methods: 'BOARD LOWER THAN LEAD' and 'BOARD EVEN WITH LEAD'. The right view is labeled 'NOT RECOMMENDED APPLICATION' and shows two methods: 'BOARD LOWER THAN LEAD' and 'BOARD HIGHER THAN LEAD'. A dimension of '.025 MIN. (2 PLACES)' is indicated for the lead thickness. Below the diagrams, it says '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. 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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