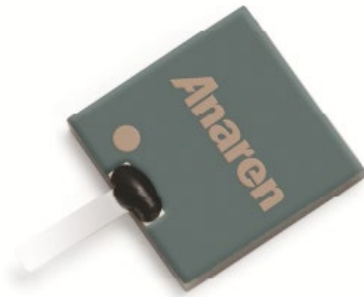


**Flangeless Termination**  
**250 Watts, 50Ω**



**Description:**

The E250N50X4 is high performance Aluminum Nitride (AlN) termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators and for use in power combiners. The termination is also RoHS compliant!

**Features:**

- RoHS Compliant
- 250 Watts
- DC – 2.2GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

**General Specifications:**

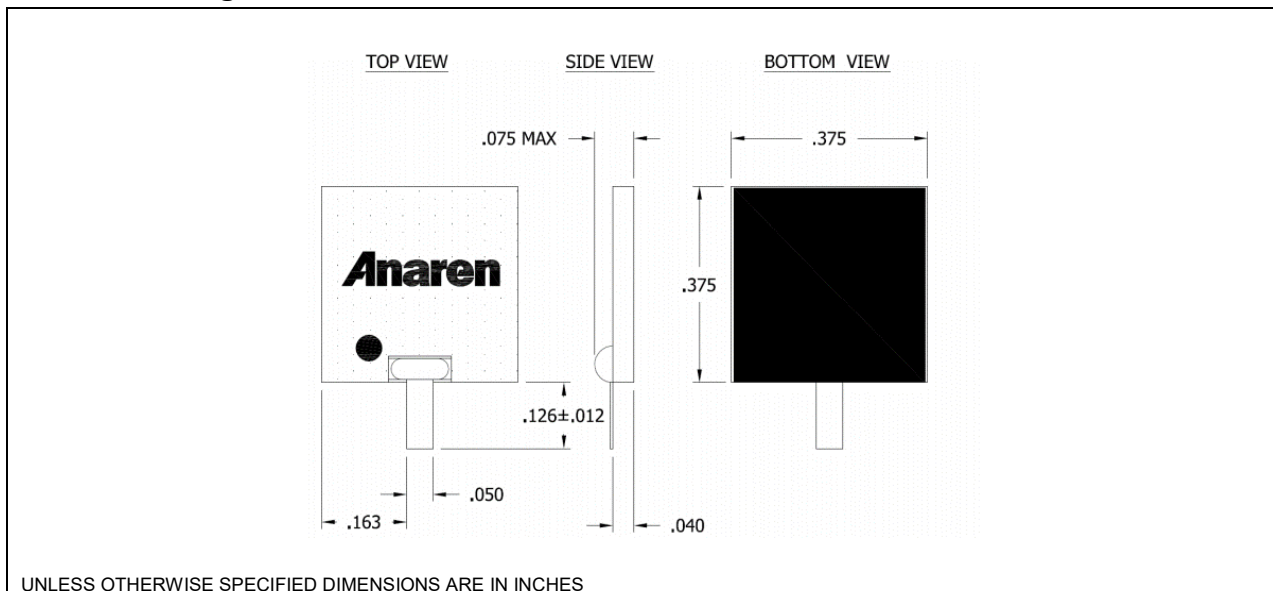
<b>Resistive Element</b>	Thick film
<b>Substrate</b>	AlN Ceramic
<b>Terminal Finish</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature</b>	-50 to +200°C(see de rating chart)

**Electrical Specifications:**

<b>Resistance Value:</b>	50 Ohms, ±2%
<b>Power:</b>	250 Watts
<b>Frequency Range:</b>	DC – 2.2 GHz
<b>Return Loss</b>	>20 dB DC – 2.2 GHz

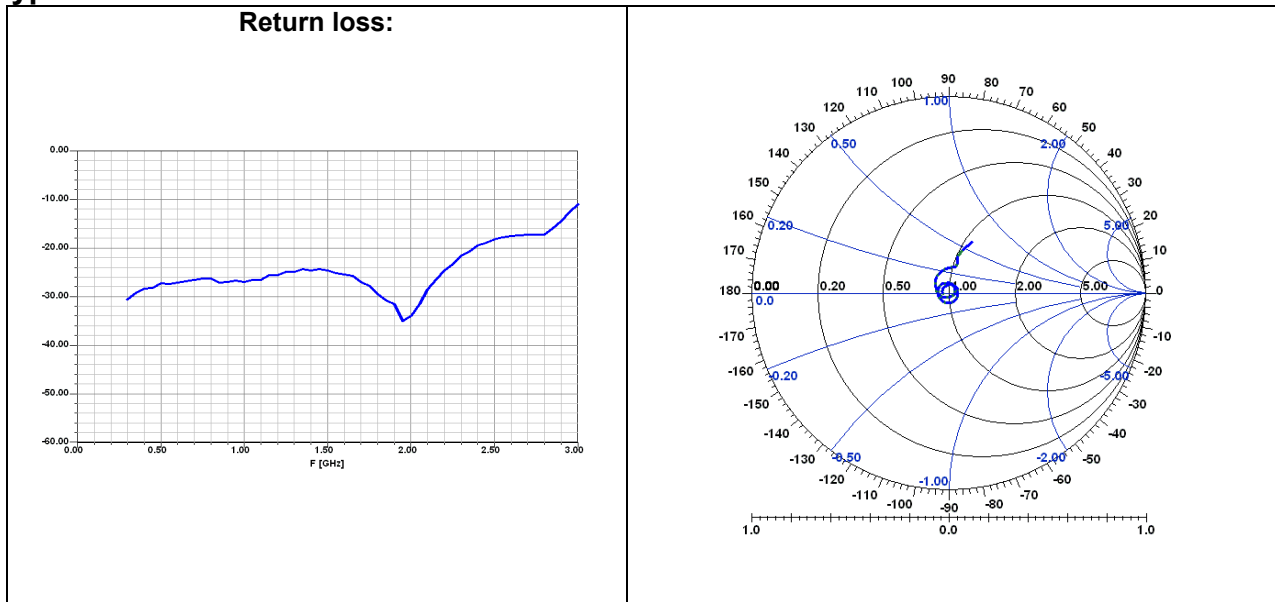
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

**Outline Drawing:**

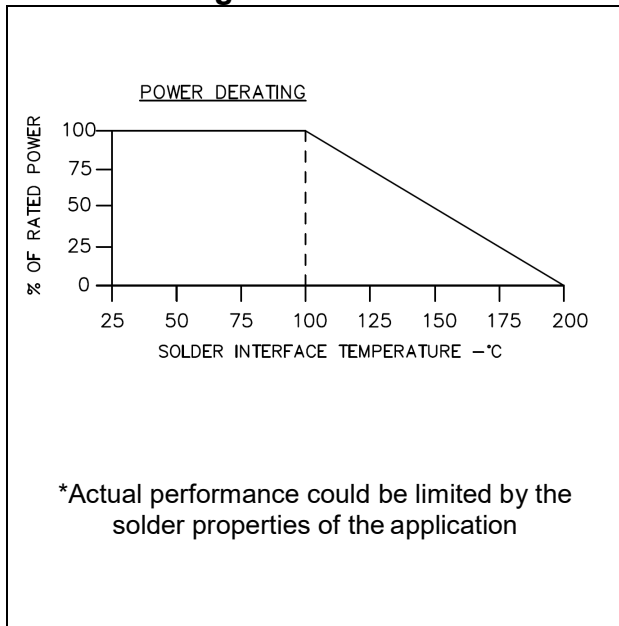


Tolerance is ±0.010", unless otherwise specified.±± Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

**Typical Performance:**



**Power de-rating:**



**Mounting Footprint:**

The diagrams show two sets of cross-sections. The left set, labeled "SUGGESTED STRESS RELIEF METHODS", shows a board lower than the lead, a board even with the lead, and a board higher than the lead. A dimension of .025 MIN (2 PLACES) is indicated. The right set, labeled "NOT RECOMMENDED APPLICATION", shows a board lower than the lead and a board higher than the lead. Both sets are labeled "SCALE: NONE".

**SUGGESTED MOUNTING PROCEDURE**

1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
2. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING AN APPROPRIATE SOLDER.
3. SOLDER LEADS IN PLACE USING AN APPROPRIATE SOLDER TYPE WITH A CONTROLLED TEMPERATURE IRON.

Contact us:  
rf&s\_support@ttm.com