



## Flangeless RF Termination 125 Watts, 50Ω

### Description:

The E125N50X4 is high performance Aluminum Nitride (AlN) termination, with a Peak to Average of 13dB. The termination is well suited for all end market applications from DC – 3GHz in all market segments including COTS Mil-Aero, Industrial and Telecom. The high power handling makes the part ideal for termination circulators and for use in power combiners. The termination is also RoHS compliant!

### Features:

- RoHS Compliant
- Power 125 W (AVG)
- Peak to Average 13dB
- DC – 3.0 GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

### General Specifications:

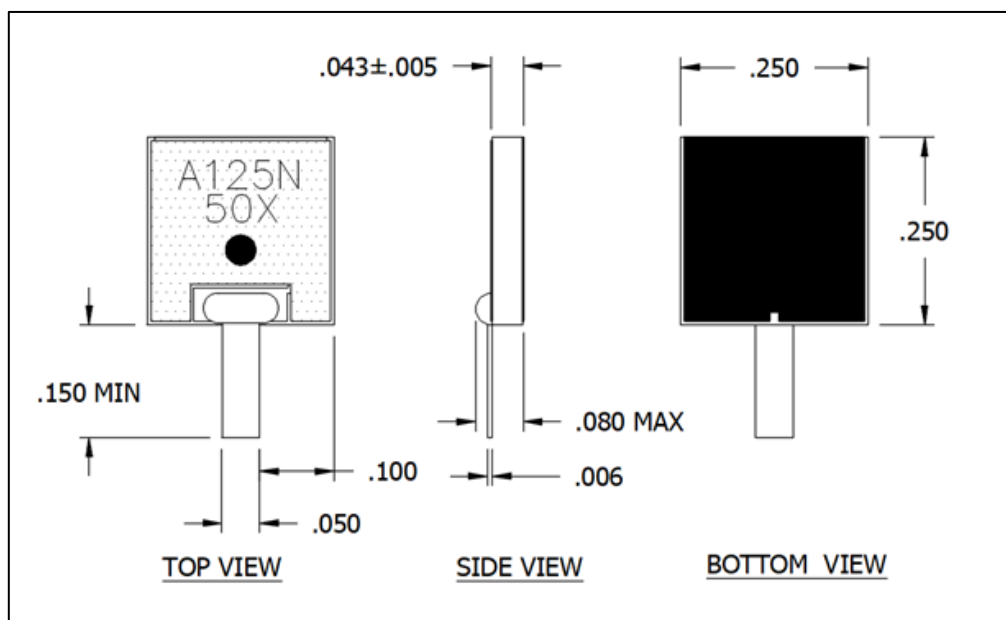
<b>Resistive Element:</b>	Thick film
<b>Substrate:</b>	AlN Ceramic
<b>Terminal Finish:</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature:</b>	-55 to +150°C (see de rating chart)

### Electrical Specifications:

<b>Resistance Value:</b>	50 Ohms Nominal
<b>Power:</b>	125 Watts (Avg Watts @ 100°C)
<b>Frequency Range:</b>	DC – 3.0 GHz
<b>Return Loss</b>	> 19 dB

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

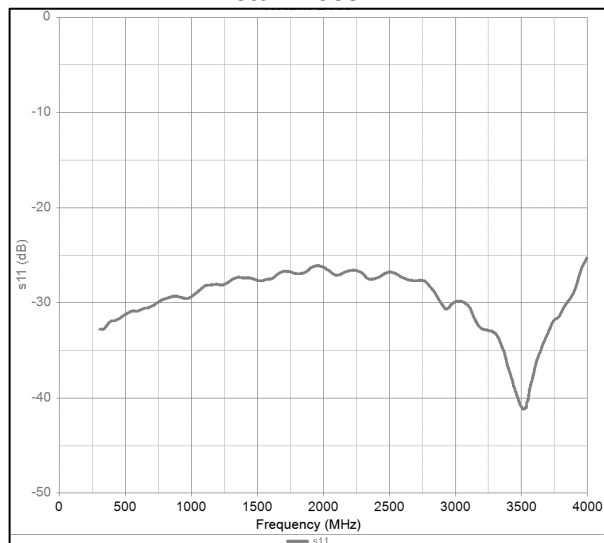
### Mechanical Outline:



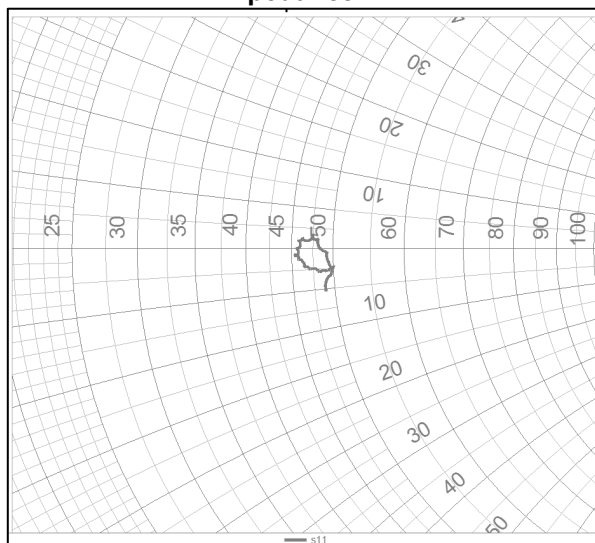
Unless otherwise specified dimensions are in inches [millimeters], tolerance is ±0.010".

## Typical Performance:

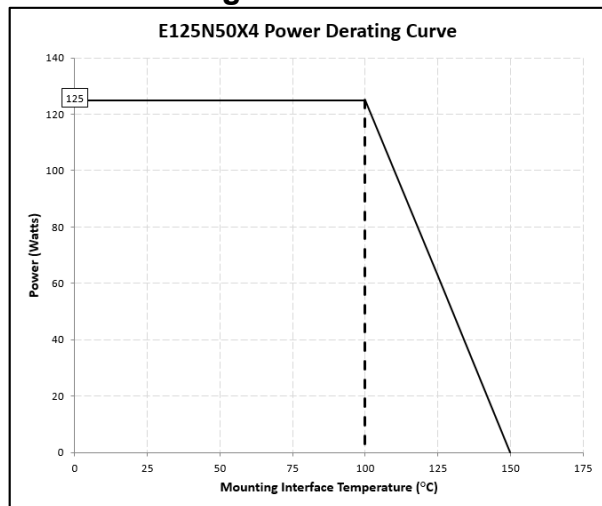
### Return loss:



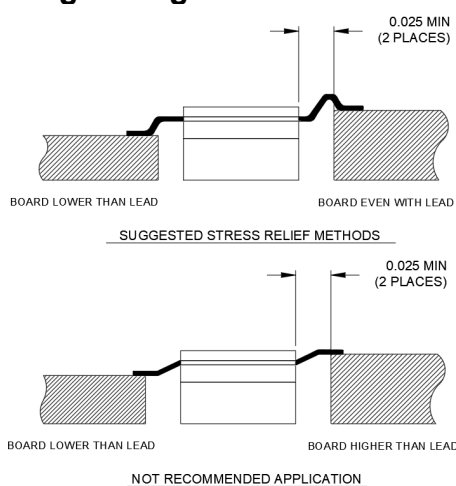
### Impedance:



## Power Derating:



## Mounting Configuration:



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:**  
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