

Chip Termination
125 Watts, 50Ω



Features:

- RoHS Compliant
- 125 Watts
- DC – 4.0 GHz
- AIN Ceramic
- Non - Nichrome Resistive Element
- Low VSWR
- 100% Tested

Description:

The A125N50X4 is high performance Aluminum Nitride (AlN) Chip termination intended as a low cost 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 termination circulators and for use in power combiners. The termination is also RoHS compliant!

General Specifications:

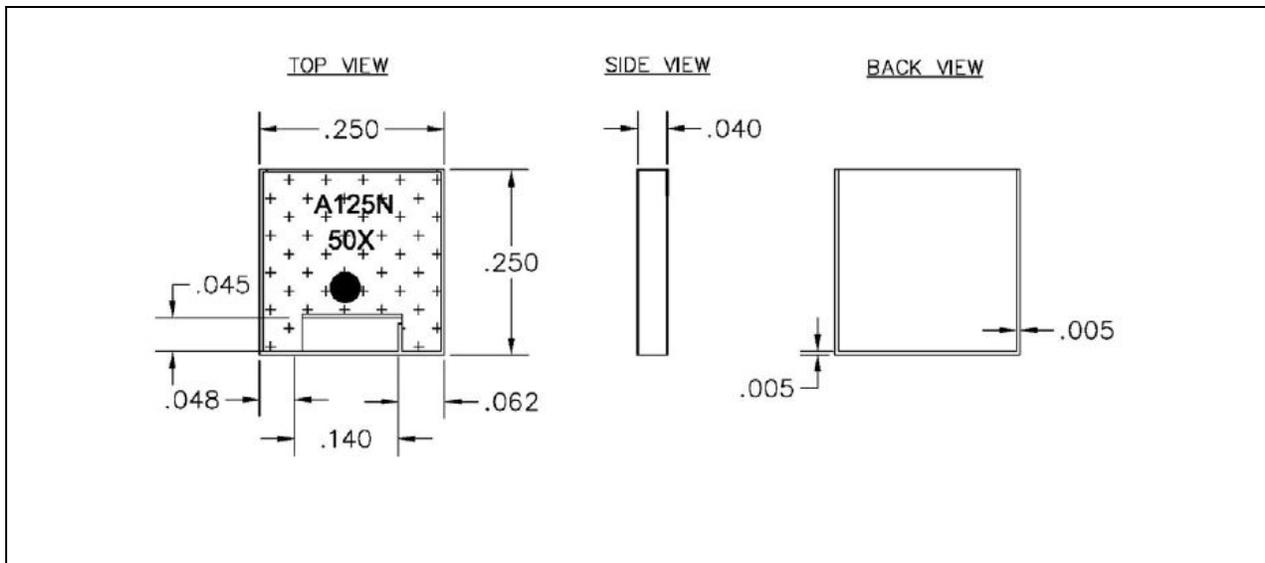
Resistive Element	Thick Film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-50 to +150°C (see de rating chart)

Electrical Specifications:

Resistance Value:	50 Ohms, ± 2%
Power:	125 Watts
Frequency Range:	DC-4.0 GHz
Return Loss	> 26 dB to 1.3 GHz > 22 dB to 4.0GHz

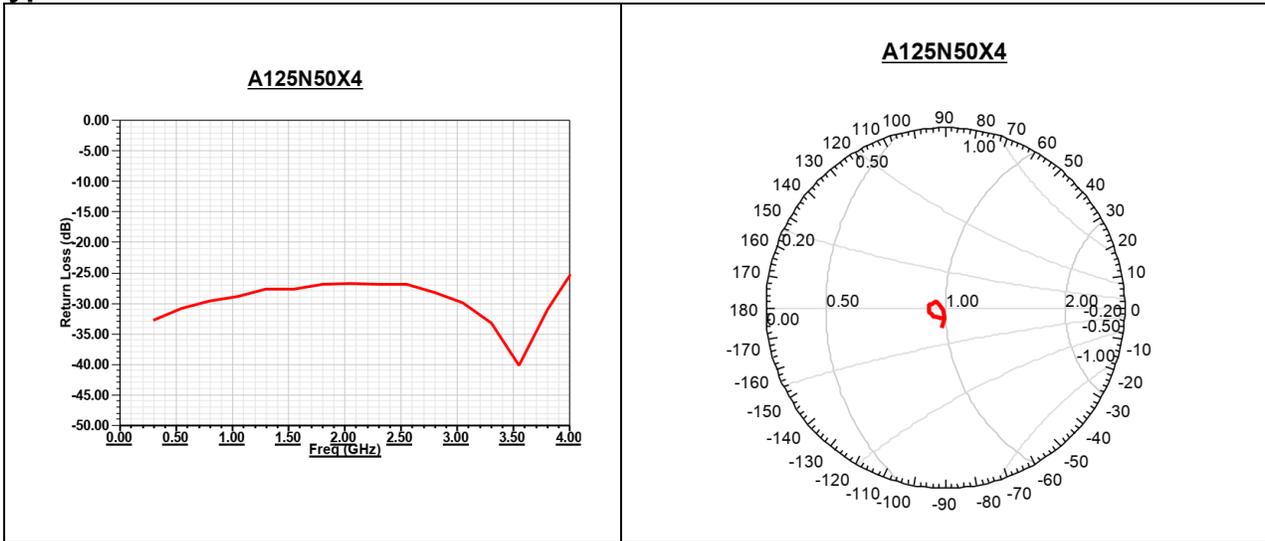
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Outline Drawing:

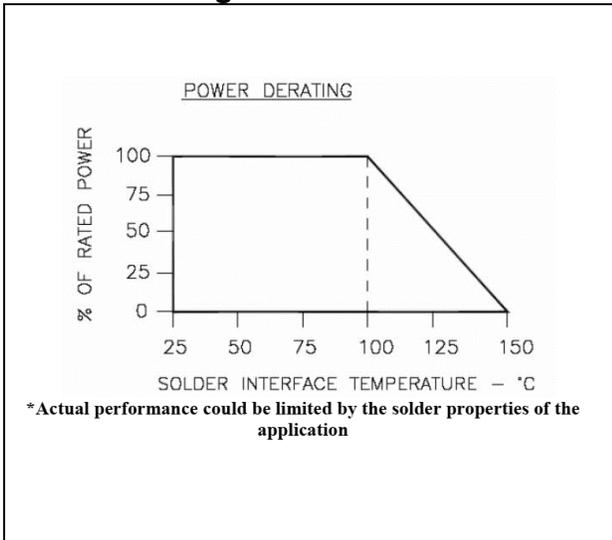


Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

Typical Performance:



Power De-rating:

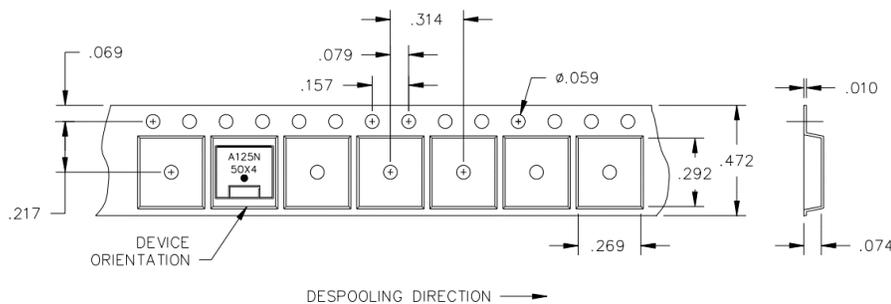


Mounting Footprint:

This section includes two diagrams of mounting footprints. The left diagram, labeled "SUGGESTED STRESS RELIEF METHODS", shows two cases: "BOARD LOWER THAN LEAD" and "BOARD EVEN WITH LEAD", both with a ".025 MIN (2 PLACES)" dimension. The right diagram, labeled "NOT RECOMMENDED APPLICATION", shows "BOARD LOWER THAN LEAD" and "BOARD HIGHER THAN LEAD". Below the diagrams is the "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.

Tape & Reel:



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