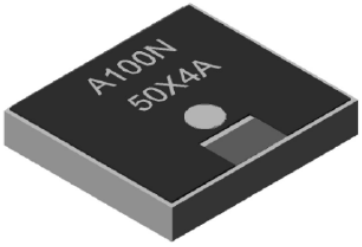
Chip Termination
100 Watts, 50Ω



Features:

- RoHS Compliant
- 100 Watts
- DC – 3.5 GHz
- AlN Ceramic
- Non-Nichrome Resitive Element
- Low VSWR
- 100% Tested
- Small Size

Description:

The A100N50X4A is high performance Aluminum Nitride (AlN) chip termination intended as an 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!

General Specifications:

Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	***-55 to +150°C (see de rating chart)***

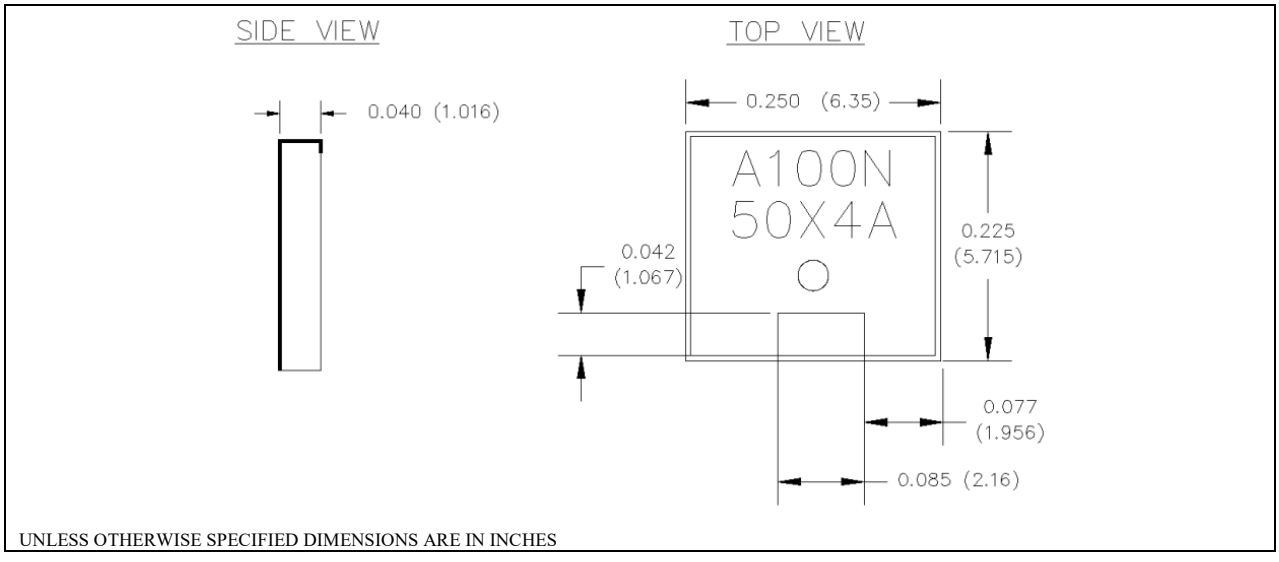
Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications:

Resistive Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 3.5 GHz
V.S.W.R:	1.12 : 1 DC – 3.0 GHz 1.22 : 1 DC – 3.5 GHz

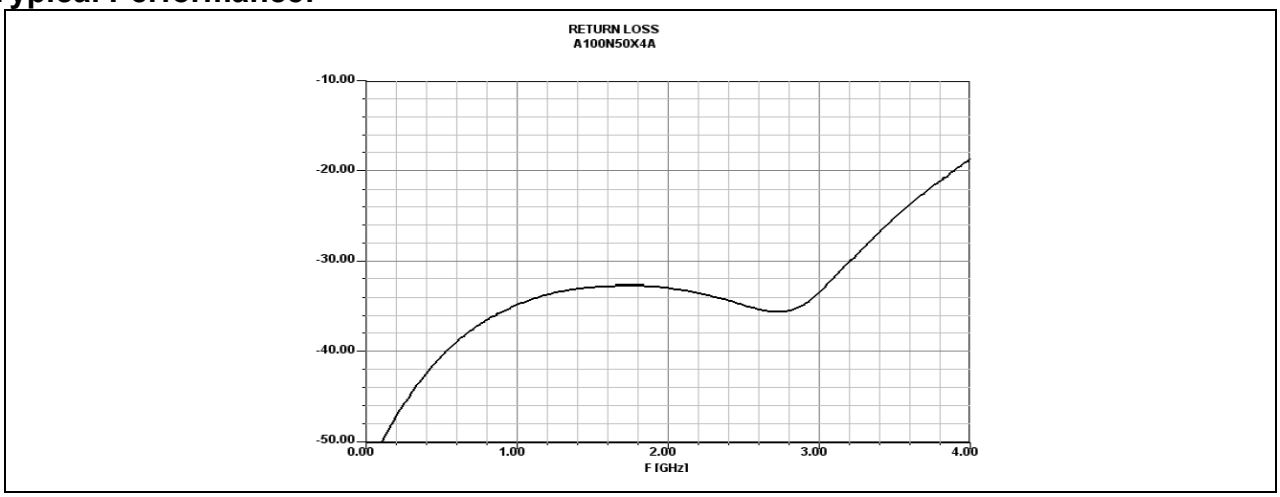
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Outline Drawing:

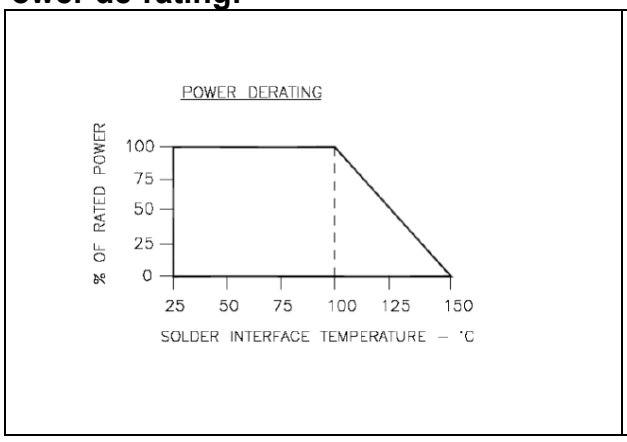


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

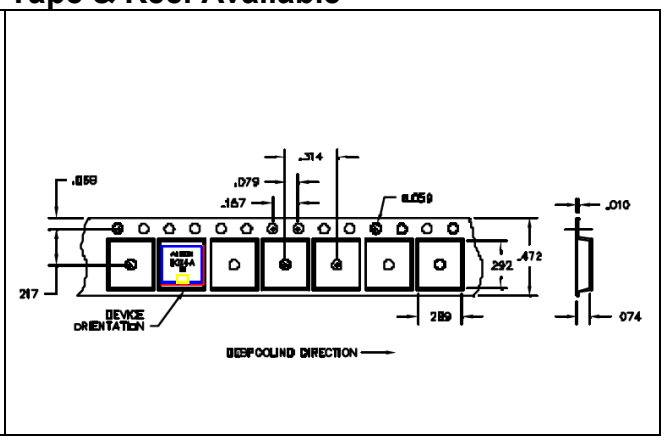
Typical Performance:



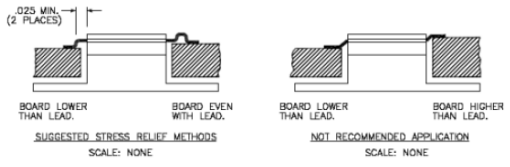
Power de-rating:



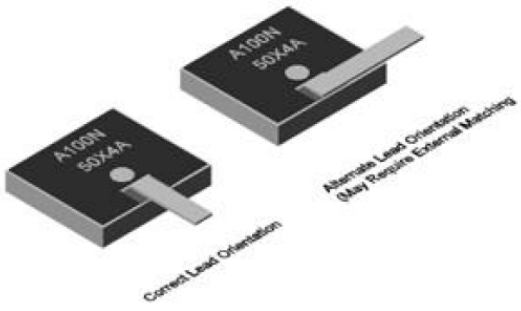
Tape & Reel Available



Mounting Footprint and 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 A LEAD FREE TYPE OR SN96 TYPE SOLDER.
3. SOLDER LEADS IN PLACE USING AN SN96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (250°C).



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