

**Chip Termination**  
100 Watts, 50Ω



**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!

**Features:**

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

**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>	<b>-55 to +150° C (see de rating chart)</b>

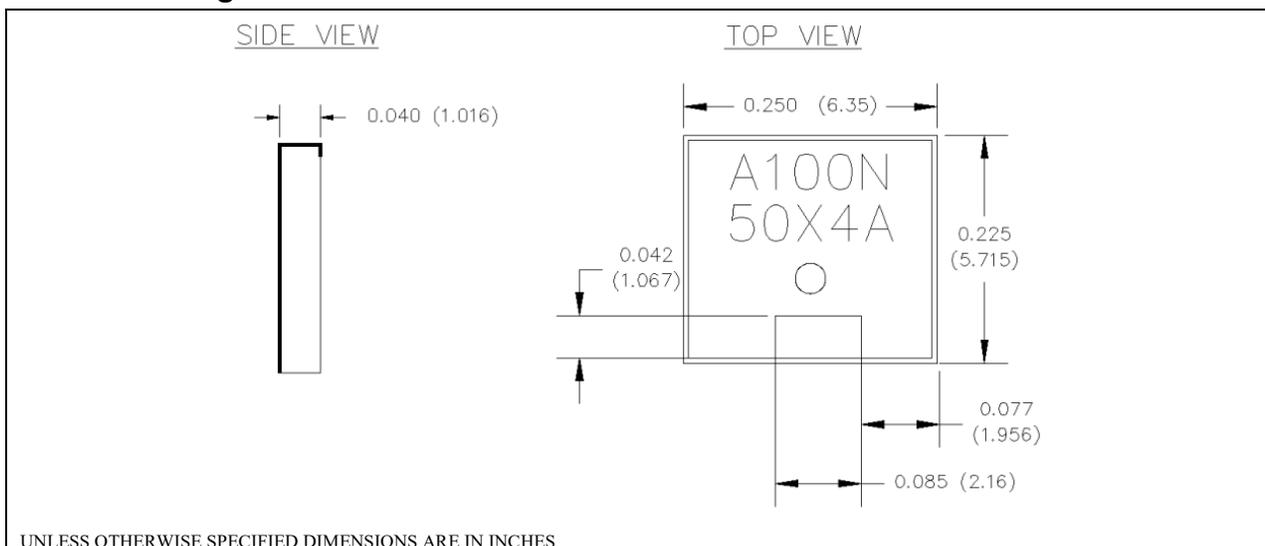
Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

**Electrical Specifications:**

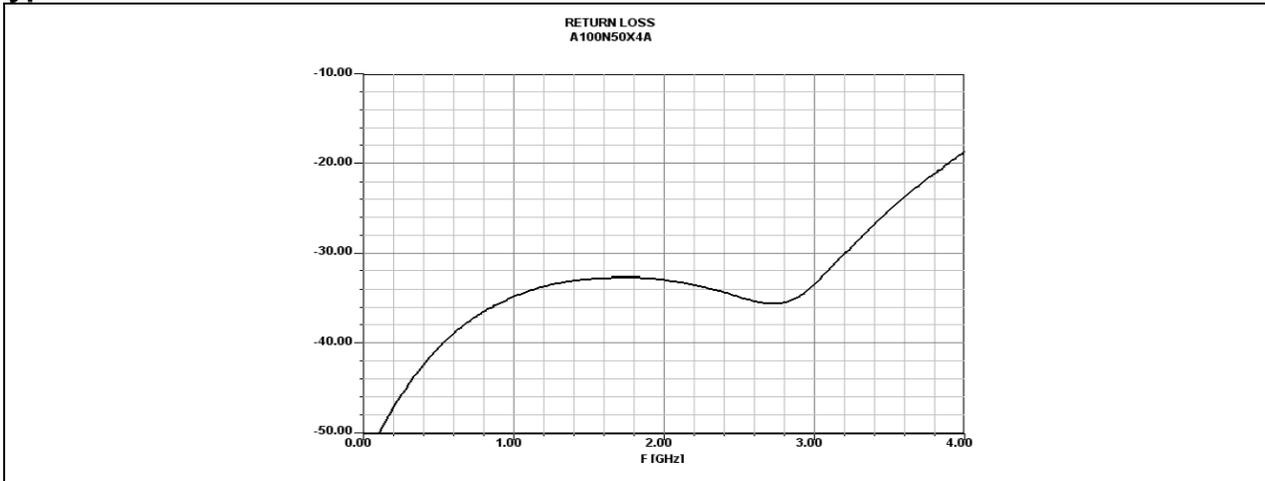
<b>Resistive Value:</b>	50 Ohms, ± 2%
<b>Power:</b>	100 Watts
<b>Frequency Range:</b>	DC – 3.5 GHz
<b>V.S.W.R:</b>	1.12 : 1 DC – 3.0 GHz 1.22 : 1 DC – 3.5 GHz

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

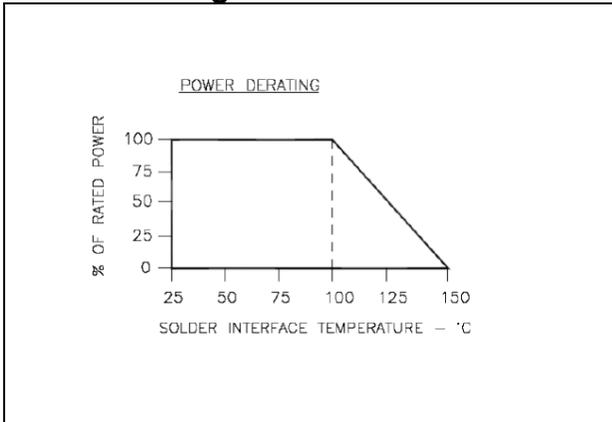
**Outline Drawing:**



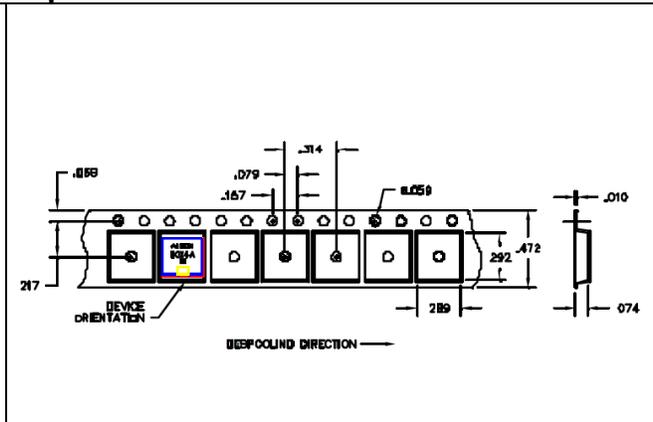
**Typical Performance:**



**Power de-rating:**



**Tape & Reel Available**



**Mounting Footprint and Procedure:**

BOARD LOWER THAN LEAD. BOARD EVEN WITH LEAD.

SUGGESTED STRESS RELIEF METHODS  
SCALE: NONE

BOARD LOWER THAN LEAD. BOARD HIGHER THAN LEAD.

NOT RECOMMENDED APPLICATION  
SCALE: NONE

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).

Correct Lead Orientation

Alternate Lead Orientation (May Require External Matching)

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