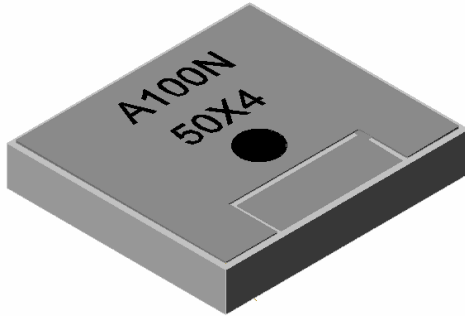


**RoHS  
Compliant**

**Chip Termination**  
**100 Watts, 50Ω**

### Description



The A100N50X4 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

<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)

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

### Electrical Specifications

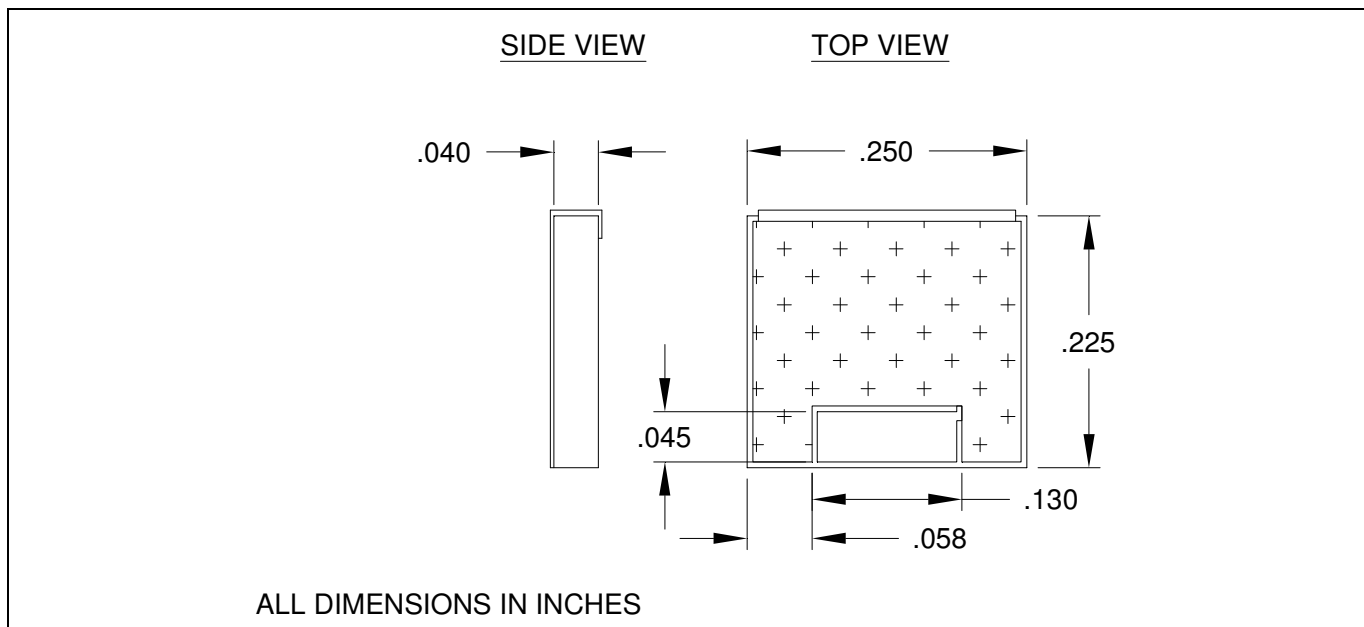
<b>Resistance Value:</b>	50 Ohms, $\pm 2\%$
<b>Power:</b>	100 Watts
<b>Frequency Range:</b>	DC – 2.7 GHz
<b>V.S.W.R.</b>	1.1:1 to 2.7 GHz

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

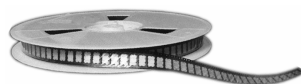
### Features:

- RoHS Compliant
- 100 Watts
- DC - 2.7 GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

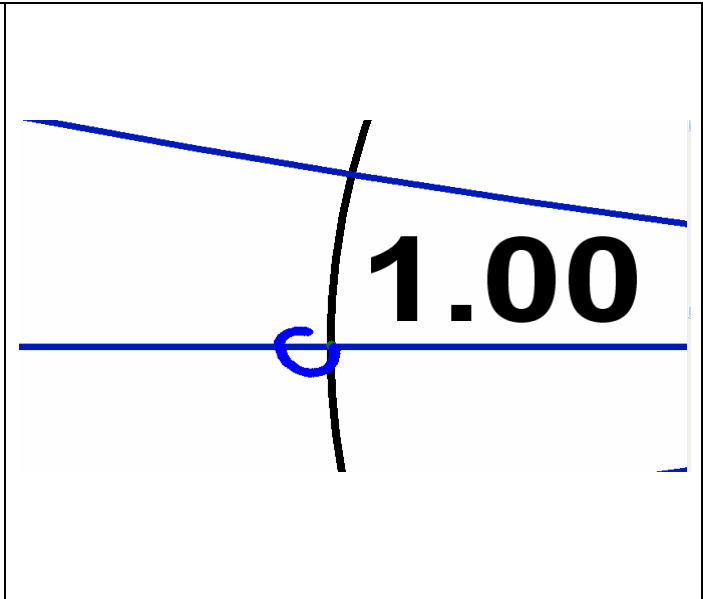
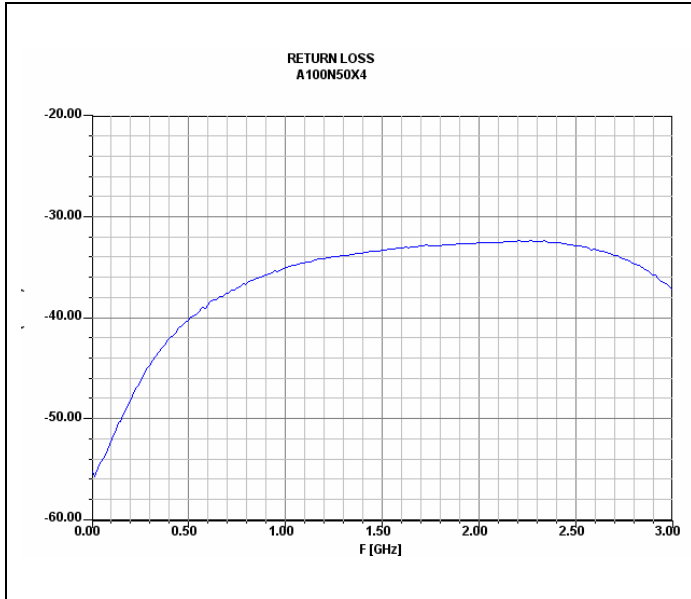
### Outline Drawing



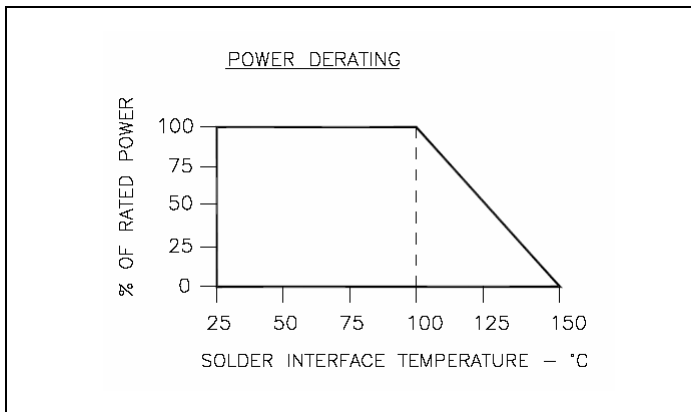
A100N50X4 (097) Rev B



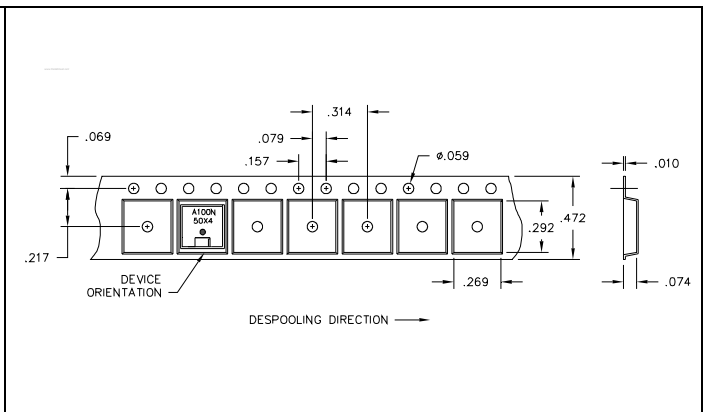
## Typical Performance:



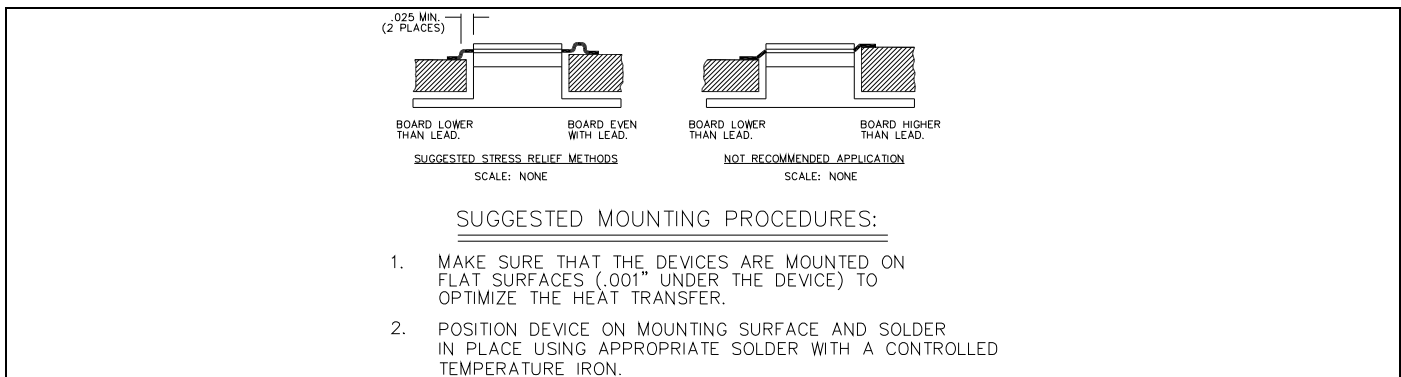
## Power De-rating:



## Tape & Reel:



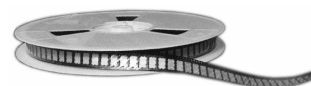
## Mounting Footprint and Procedure:



A100N50X4 (097) Rev B

USA/Canada: (315) 432-8909  
Toll Free: (800) 544-2414  
Europe: +44 2392-232392

Available on Tape and  
Reel For Pick and Place  
Manufacturing.



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