Chip Termination
250 Watts, 50Ω



Description

The A250N50X4 is high performance Aluminum Nitride (AlN) chip termination intended as a cost competitive 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**
- **250 Watts**
- **DC - 2.2 GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

General Specifications

Resistive Element	Thick film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-50 to +200°C (see de rating chart)

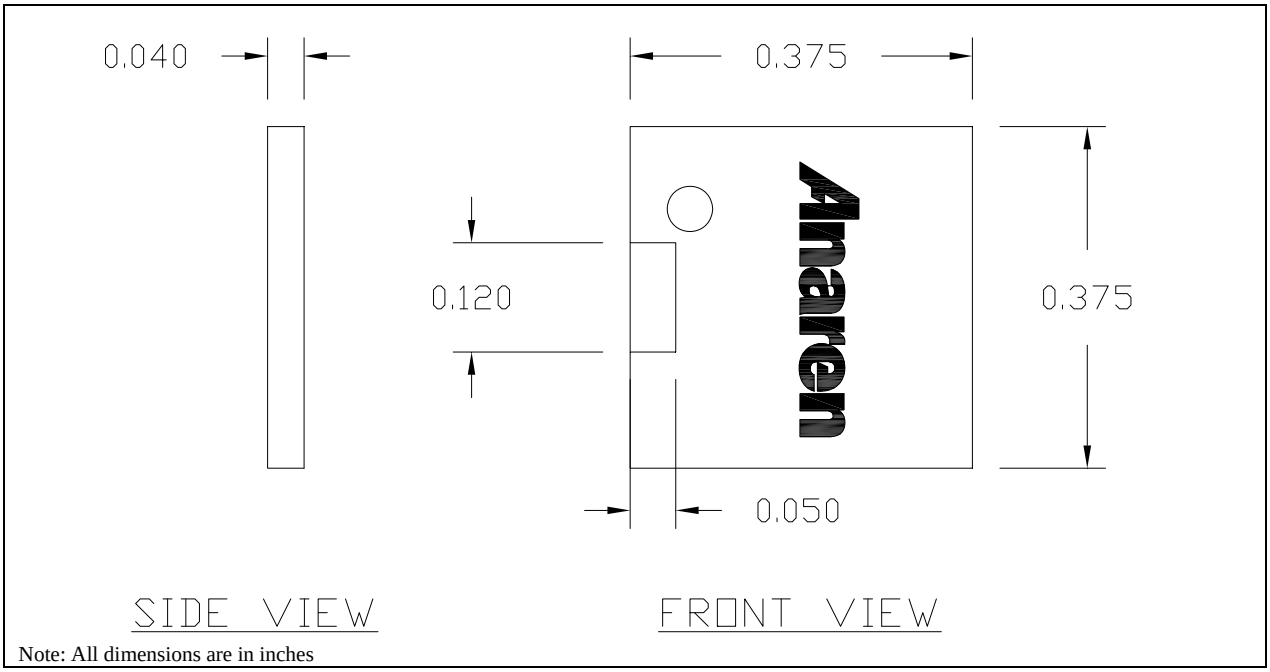
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	250 Watts
Frequency Range:	DC – 2.2 GHz
Return Loss	> 20 dB DC – 2.2 GHz

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

Outline Drawing



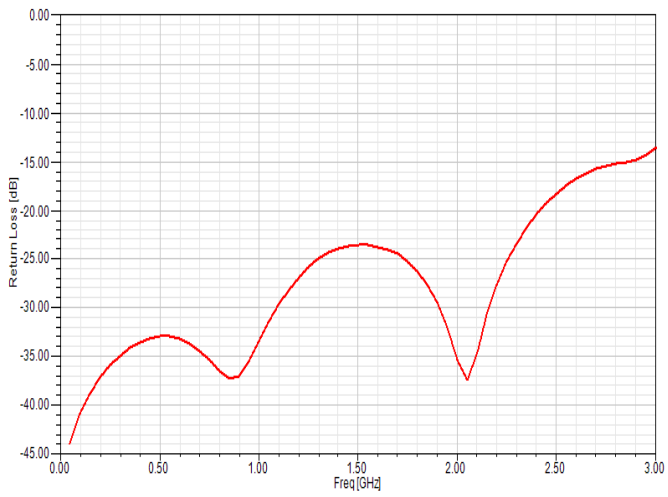
Note: All dimensions are in inches

Anaren
What'll we think of next?™

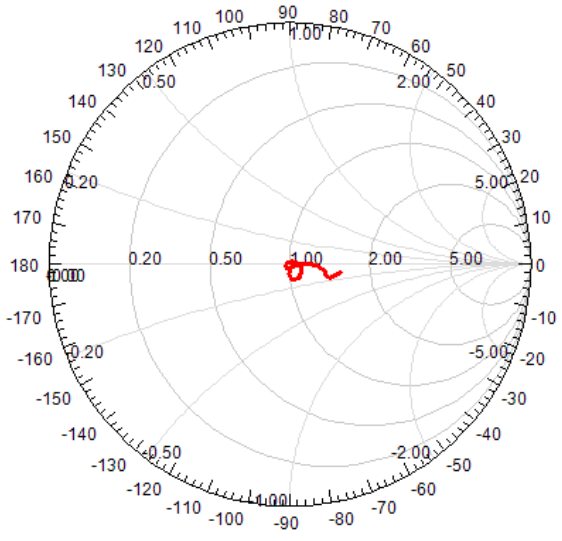
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

Typical Performance:

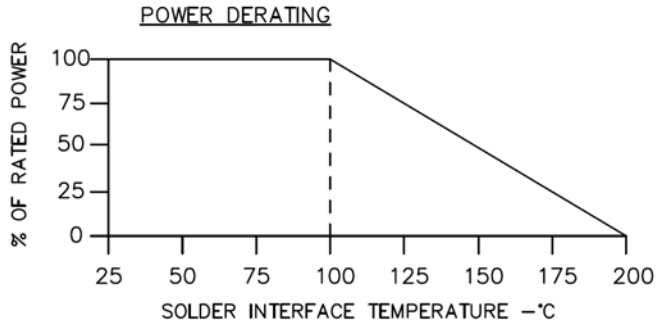
A250N50X4



A250N50X4

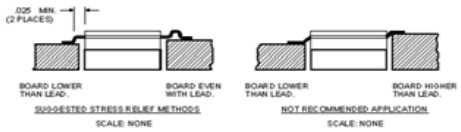


Power De-rating:



***Actual performance could be limited by the solder properties of the application**

Mounting Footprint and Procedure:



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.

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

Anaren
What'll we think of next?™