Model G250N50W4

Overview

Flange Termination
250 Watts, 50Ω

Description

The G250N50W4 is high performance Aluminum Nitride (AlN) flange mount 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!

General Specifications

Resistive Element	Thick Film
Substrate	AlN Ceramic
Mounting Flange	Copper, nickel plated per QC-N-290
Operating Temperature	-55˚C to +150˚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.

Features:

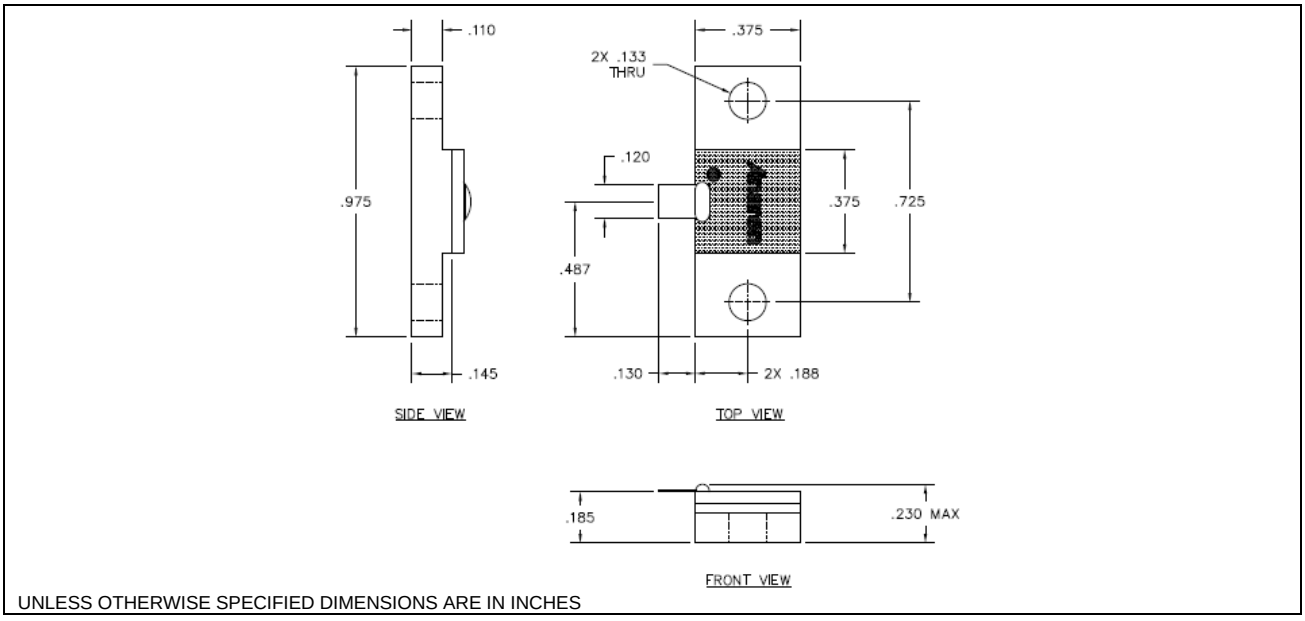
- **RoHS Compliant**
- **250 Watts**
- **DC – 2.2 GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

Electrical Specifications

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

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

Outline Drawing



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

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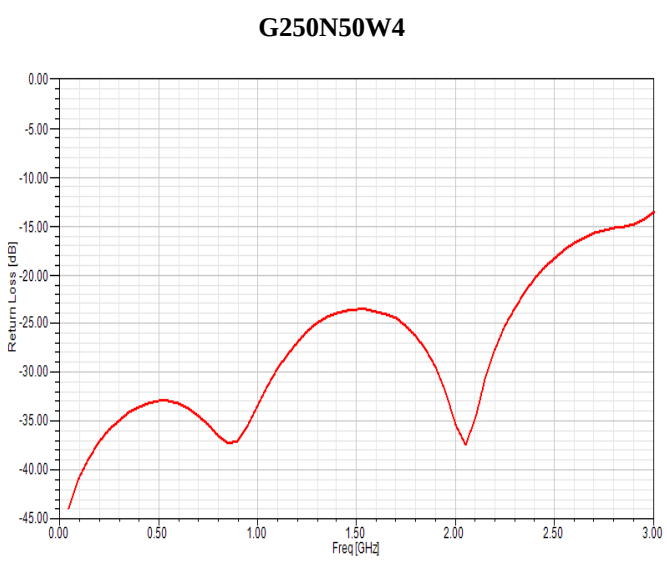
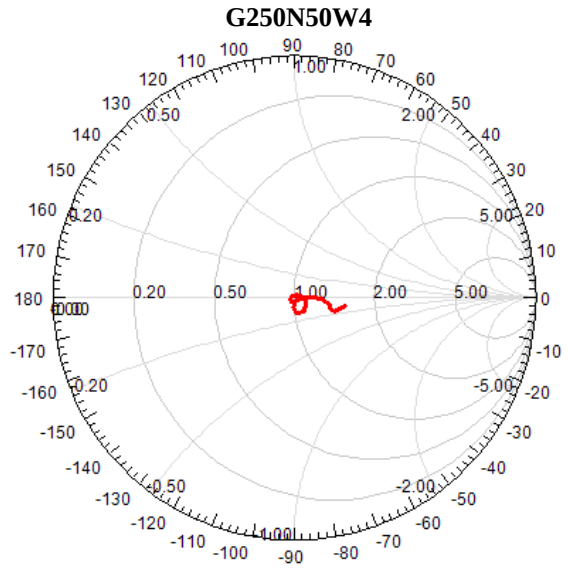
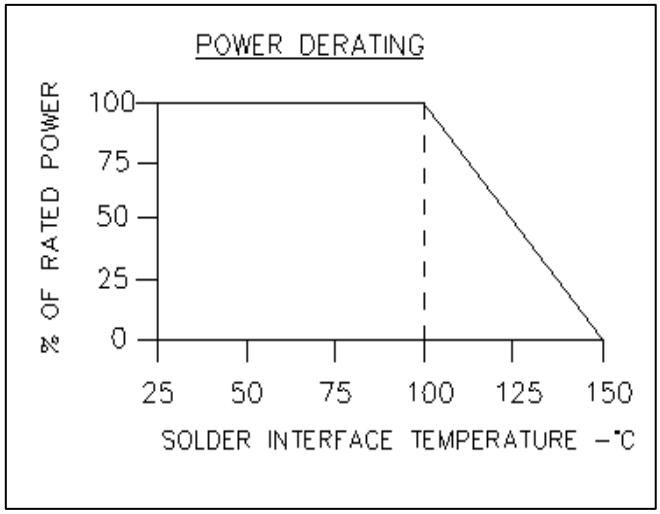
Typical Performance:



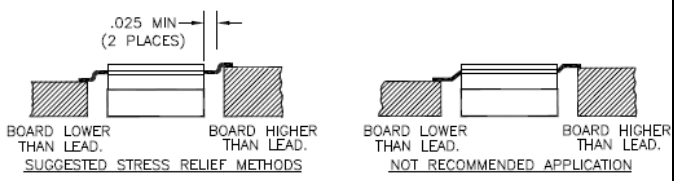


Power De-rating:



***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.

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