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!

Features:

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

General Specifications:

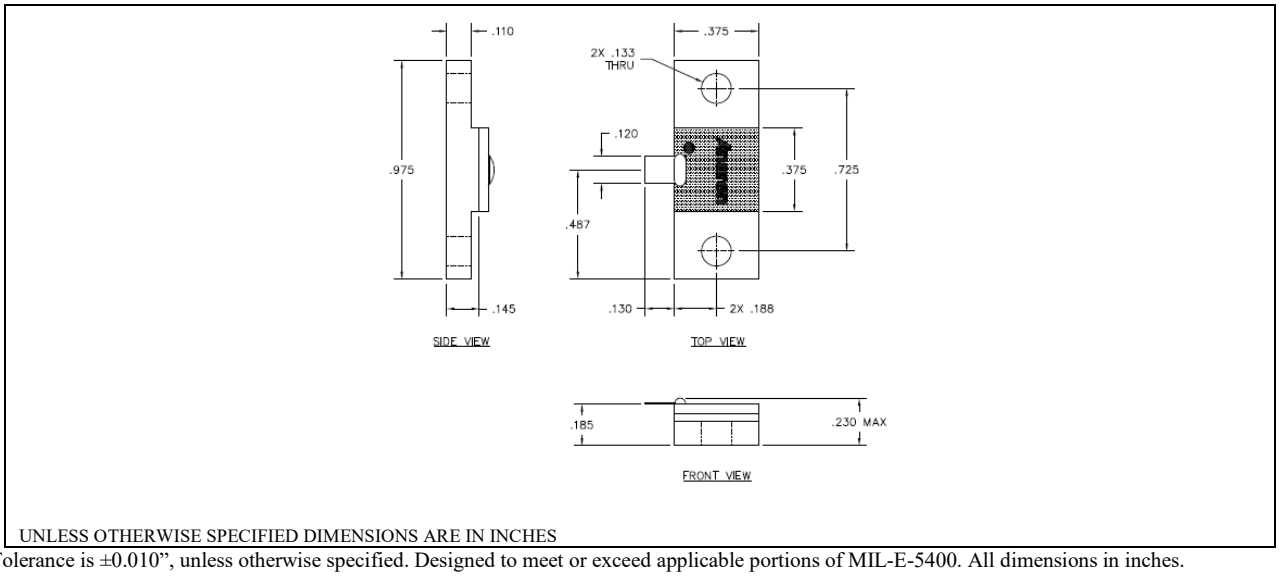
Resistive Element	Thick Film
Substrate	AIN Ceramic
Mounting Flange	Copper, nickel plated per QC-N-290
Operating Temperature	-55°C to +150°C(see de-rating chart)

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.**

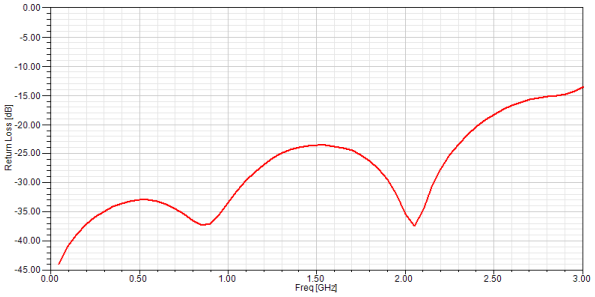
Outline Drawing:

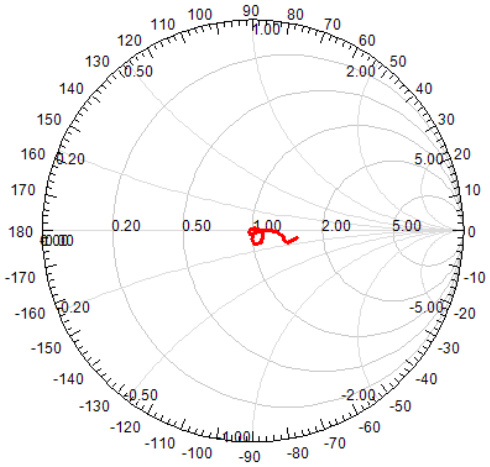


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

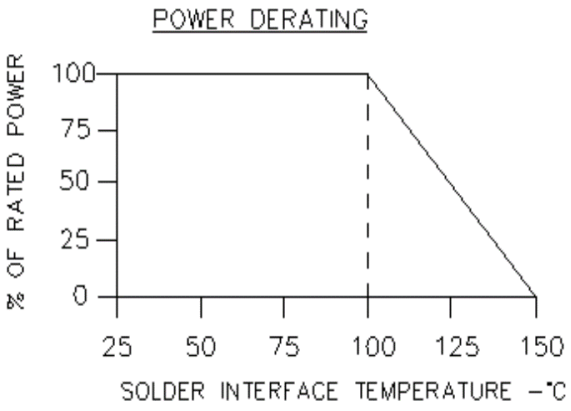
Typical Performance:

Return loss:



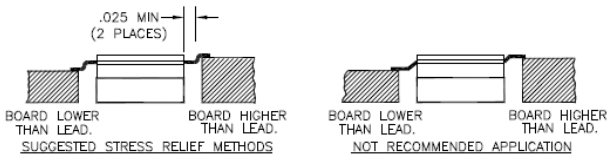


Power de-rating:



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

Mounting Footprint:



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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