Anaren

Flangeless Termination
250 Watts, 50Ω

Description

The E250N50X4B is high performance Aluminum Nitride (AIN) 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	AIN 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 Nominal
Power:	250 Watts
Frequency Range:	DC – 3.0 GHz
Return Loss	> 20 dB

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

Features:

- **RoHS Compliant**
- **250 Watts**
- **DC – 3.0GHz**
- **AIN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

Outline Drawing
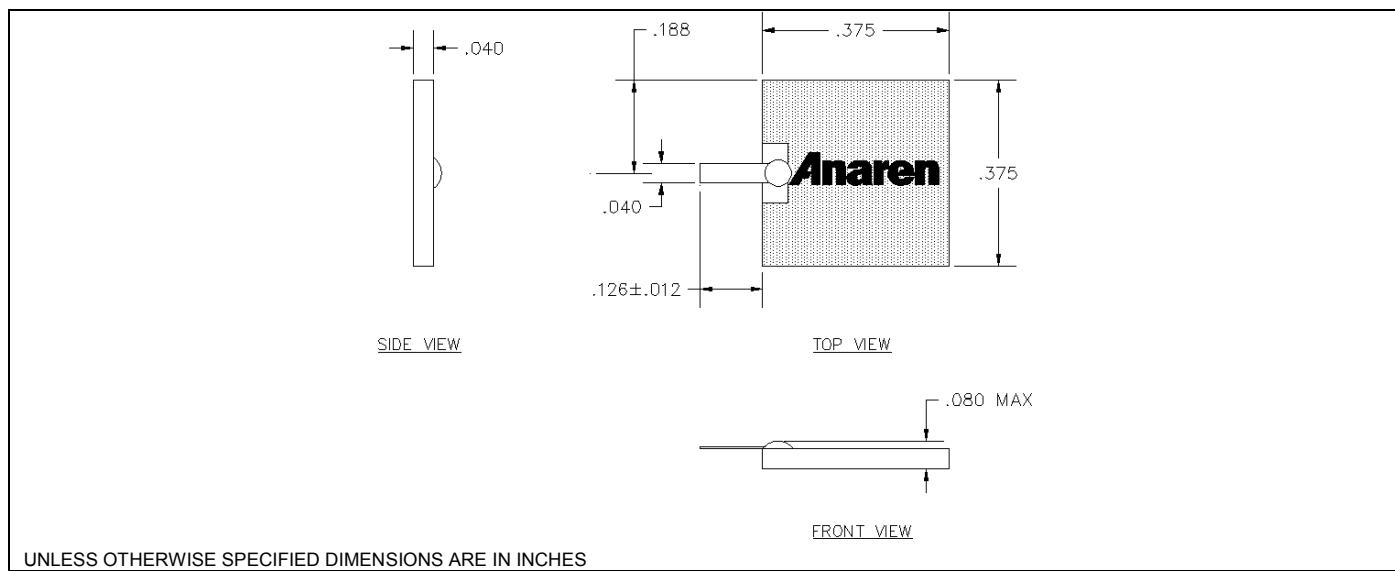
SIDE VIEW   TOP VIEW

FRONT VIEW

.040   .188   .375   .375   .040   .126±.012   .080 MAX

UNLESS OTHERWISE SPECIFIED 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

Anaren

Typical Performance:

E250N50X4B
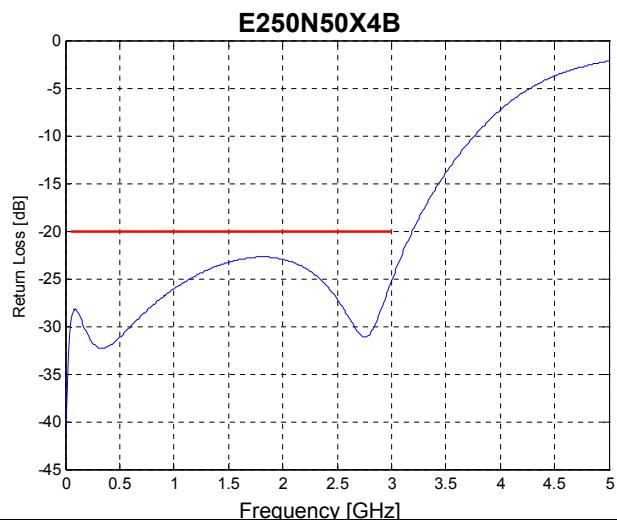
Power De-rating:

POWER DERATING
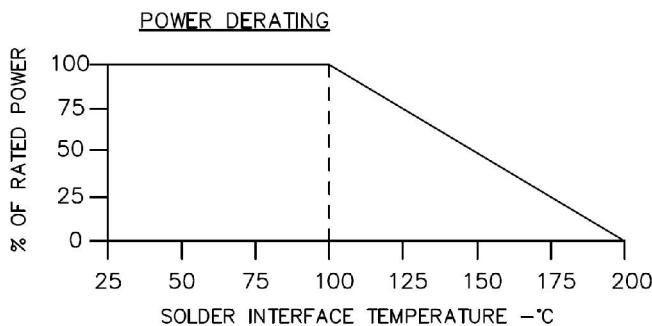
Actual performance could be limited by the solder properties of the application

Mounting Footprint and Procedure:

.025 MIN (2 PLACES)

BOARD LOWER THAN LEAD.   BOARD HIGHER THAN LEAD.
SUGGESTED STRESS RELIEF METHODS

BOARD LOWER THAN LEAD.   BOARD HIGHER THAN LEAD.
NOT RECOMMENDED APPLICATION
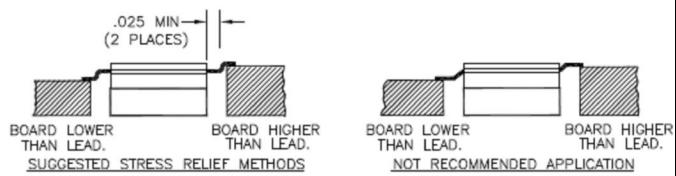
SUGGESTED MOUNTING PROCEDURE

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.

Packaging Information (Tray and Cover):

5.70

3.60

0.70

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

Anaren
What'll we think of next?™