

Chip Termination
200 Watts, 50Ω



Features:

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

Description:

The A200N50X4 is high performance Aluminum Nitride (AlN) Chip termination intended as a low cost 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 termination circulators and for use in power combiners. The termination is also RoHS compliant!

General Specifications:

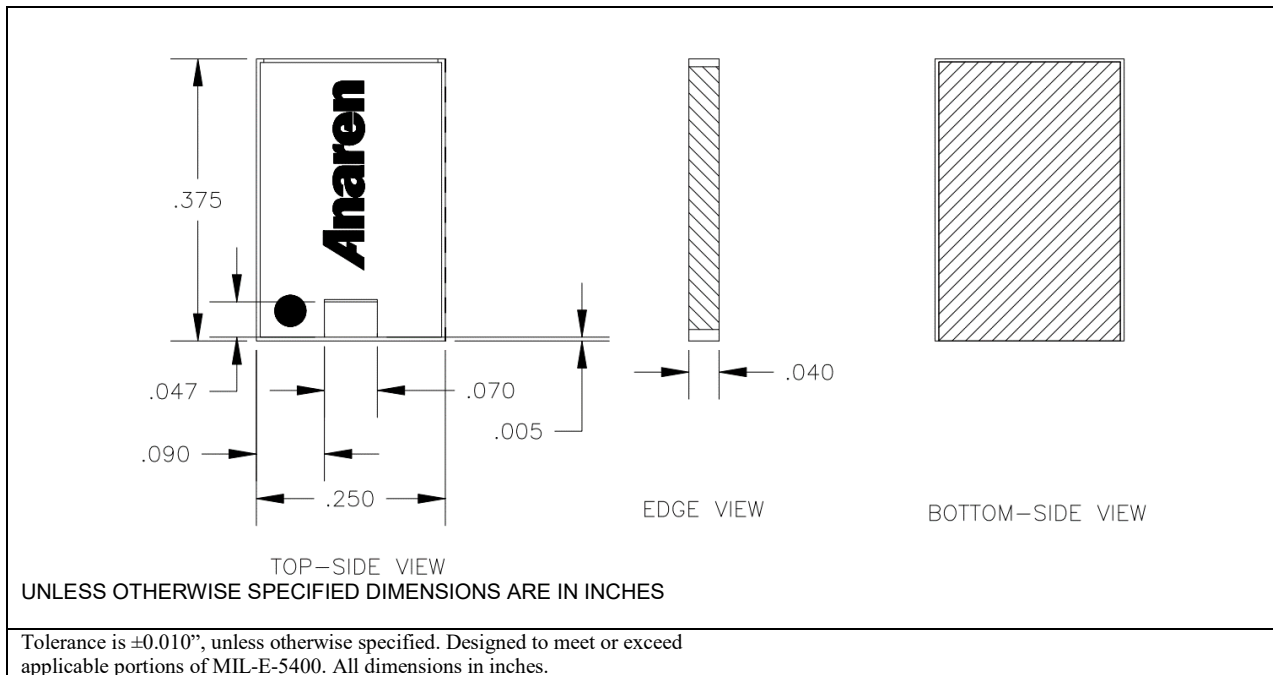
Resistive Element	Thick film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-50 to +200°C (see de rating chart)

Electrical Specifications:

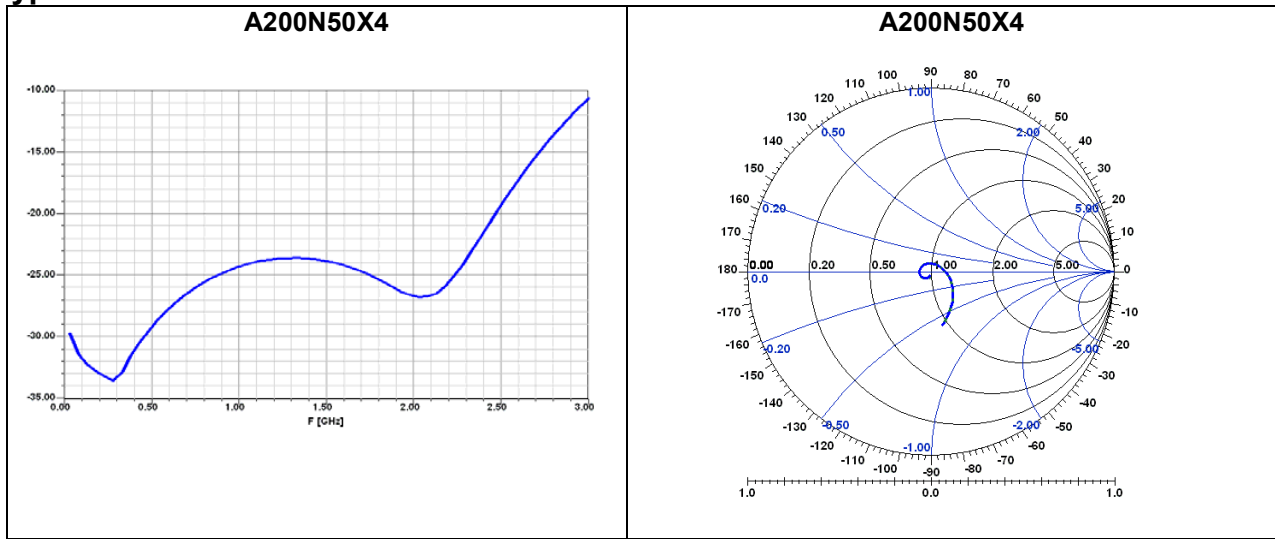
Resistance Value:	50 Ohms, ± 2%
Power:	200 Watts
Frequency Range:	DC – 2.2 GHz
Return Loss	> 20 dB DC – 2.2 GHz

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

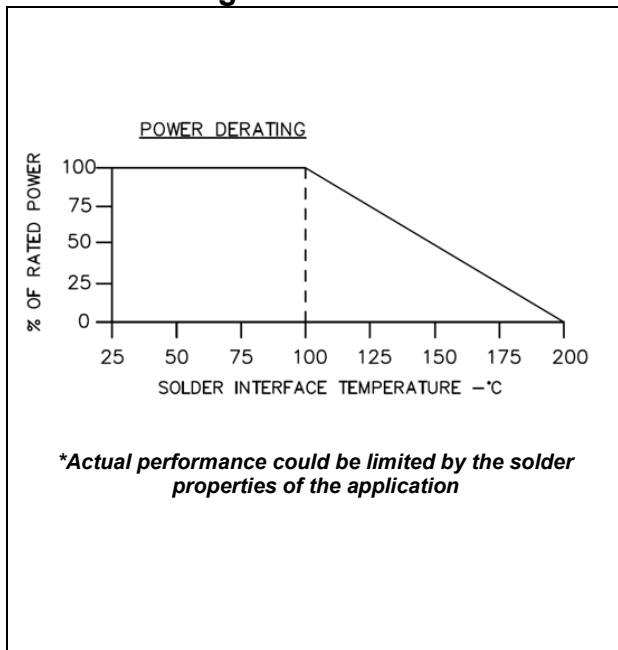
Outline Drawing:



Typical Performance:



Power De-rating:



Mounting Footprint:

The diagrams show four cross-sectional views of the component on a mounting surface. The first two are labeled "SUGGESTED STRESS RELIEF METHODS" and the last two are labeled "NOT RECOMMENDED APPLICATION". The first view shows the board lower than the lead, with a dimension of .025 MIN (2 PLACES) indicated. The second view shows the board even with the lead. The third view shows the board lower than the lead. The fourth view shows the board higher than the lead. Both suggested methods are labeled "SCALE: NONE".

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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