

Chip Termination 500 Watts, 50Ω



Description

The A500N50X4 is high performance Aluminum Nitride (AIN) chip termination intended as a cost competitive alternative to Beryllium Oxide (BeO). 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 -55 to +200°C (see de rating chart)

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

Electrical Specifications

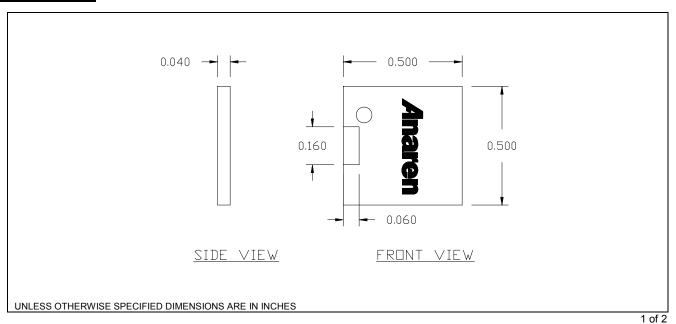
Resistance Value:50 Ohms, \pm 2%Power:500 WattsFrequency Range:DC - 1.7GHzReturn Loss>20dB

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

Features:

- RoHS Compliant
- 500 Watts
- DC 1.7 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Outline Drawing

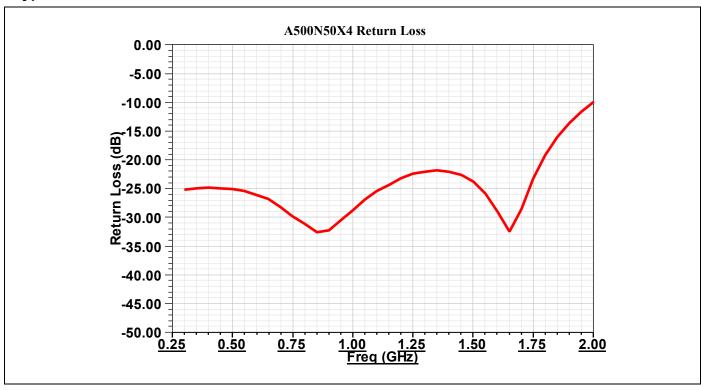




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Typical Performance:



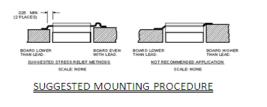
Power De-rating:

POWER DERATING RATED POWER 100-75. 50 -25-P 0 -200 25 50 75 100 125 150 175 SOLDER INTERFACE TEMPERATURE - C

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

application

Mounting Footprint and Procedure:



- MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
- POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING AN APPROPRIATE SOLDER.
- SOLDER LEADS IN PLACE USING AN APPROPRIATE SOLDER TYPE WITH A CONTROLLED TEMPERATURE IRON.

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