





Chip Termination 50 Watts, 50Ω



Features:

- RoHS Compliant
- 50 Watts
- DC 4.0GHz
- Al₂O₃ Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

Description

The A50A50X4 is high performance Alumina (Al $_2O_3$) chip termination intended as a low cost alternative to Beryllium Oxide (BeO) and Aluminum Nitride (AlN). 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 Al₂O₃ Ceramic

Terminal Finish Matte Tin over Nickel Barrier

Operating Temperature -55 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**.

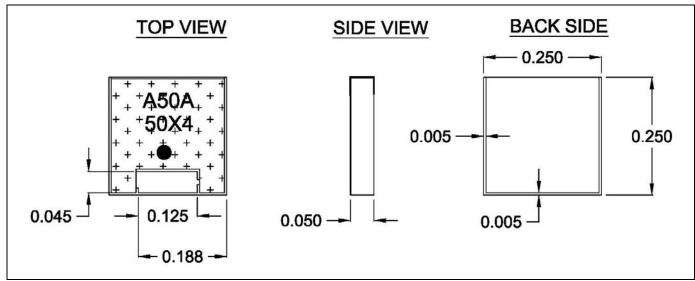
Electrical Specifications

Resistance Value:50 Ohms \pm 2%Power:50 WattsFrequency Range:DC - 3.5GHz

Return Loss >26 dB DC - 2.7 GHz >20 dB DC - 3.5 GHz

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

Outline Drawing



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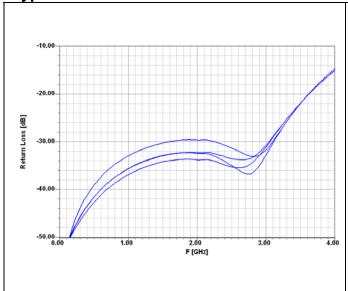


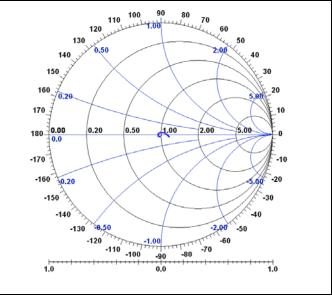
Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392





Typical Performance:

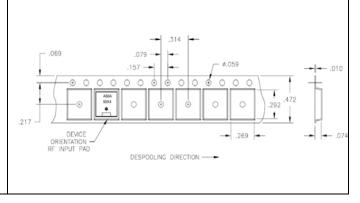




Power De-rating:

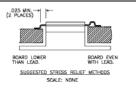
POWER DERATING POWER 100 75 RATED 50 25 Ы 0 25 50 75 100 125 150 SOLDER INTERFACE TEMPERATURE - "C

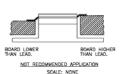
Tape & Reel:



Mounting Footprint and Procedure:

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- POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING A LEAD FREE TYPE OR SN96 TYPE SOLDER.
- SOLDER LEADS IN PLACE USING AN SN96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (250°C).





Correct Lead Orientation

Alternate Lead Orientation (May Require External Matching)

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