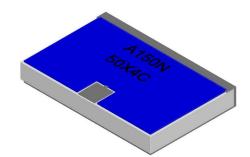


RoHS Compliant

Model A150N50X4C

Chip Termination 150 Watts, 50Ω



Description

The A150N50X4C is high performance Aluminum Nitride (AIN) chip termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination dissipates 150W and has a return loss of 25dB to 3GHz. It 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
- 150 Watts
- DC 3.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

General Specifications

Resistive Element Thick film

Substrate AIN Ceramic

Terminal Finish Matte Tin over Nickel Barrier

Operating
Temperature
-55 to +150°C

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

Electrical Specifications

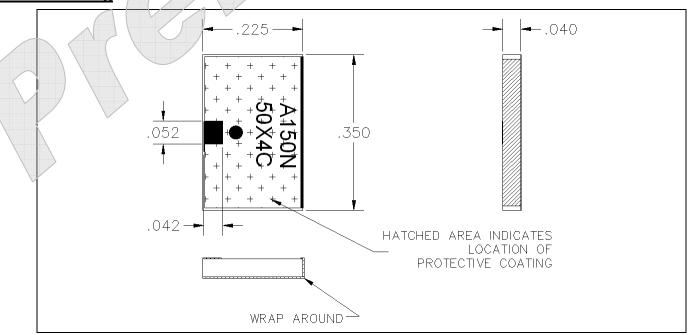
Resistance Value: 50 Ohms, \pm 2% Power: 150 Watts

Frequency Range: DC – 3.0 GHz

V.S.W.R. 1.12 : 1

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

Outline Drawing



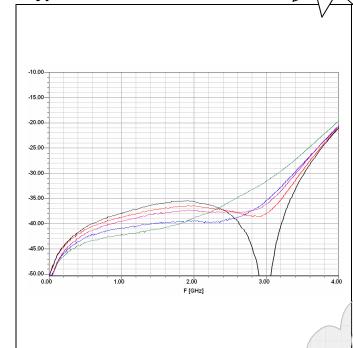
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Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392



Typical Performance:

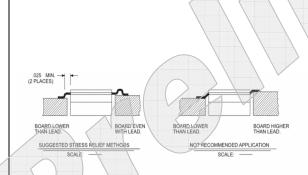


120 130 150 160 170 180⁻⁻0.00 0.50 0.20 1.00 2.00 5.00 -170 -160 30.20 -20 150 -30 -130 -0,50 -2.00 -50 -120 -60 -110 -100 -80 -90 1.0 0.0

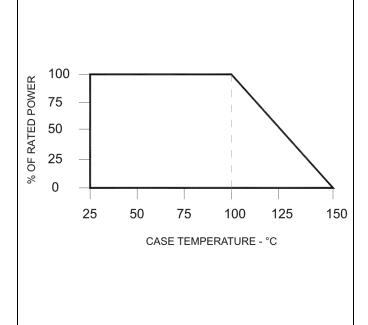
Suggested Mounting Procedures:



RoHS Compliant



- Make sure that the devices are mounted on flat surfaces (0.001" under the device) to optimize the heat transfer.
- Drill & tap the heatsink for the appropriate thread size to be used.
- 3 Coat the heatsink with a minimum amount of high quality silicone grease (0.001" max. thickness).
- 4. Position the device on mounting surface and secure using socket head screws, flat & split washers. Torque screws to the appropriate value. Make sure that the device is flat against the heatsink. (Care should be taken to avoid upward pressure of the leads toward the lid.
- Solder leads in place using an adequate solder with a controlled temperature iron.



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