



Half Flange Termination 100 Watts, 50Ω



Description

The J100N50X4 is high performance Aluminum Nitride (AIN) half flange 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 AlN Ceramic

Cover Alumina Ceramic

Mounting Flange Copper, nickel plated per QC-N-290

Leads 99% pure silver (.006" thick)

Cover Alumina Ceramic

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

Features:

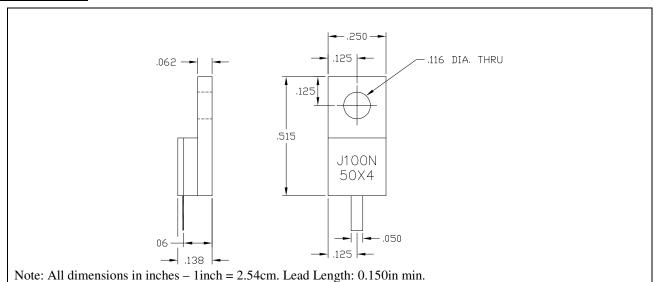
- RoHS Compliant
- 100 Watts
- DC 3.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Electrical Specifications

Resistance Value:50 Ohms, \pm 2%Power:100 WattsFrequency Range:DC - 3.0GHzV.S.W.R.1.25 : 1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Storage temperature is -20 °C to 85 °C. Operating temperature is -55 °C to 125 °C (see chart for derating temperatures). **Specifications subject to change with out notice.**

Outline Drawing



J100N50X4 (097) Rev D.

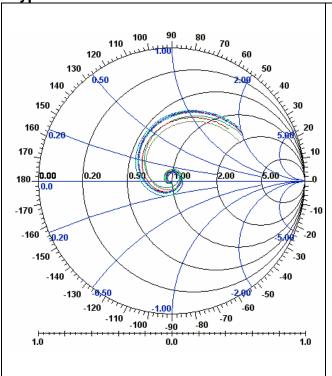


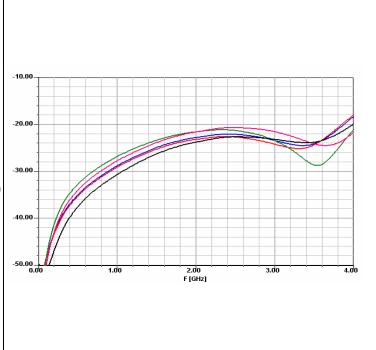
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392



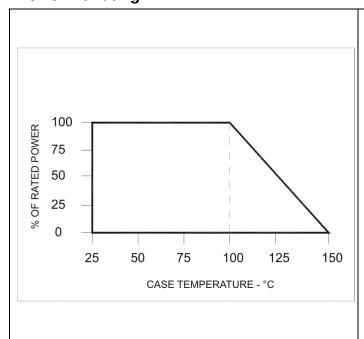


Typical Performance:



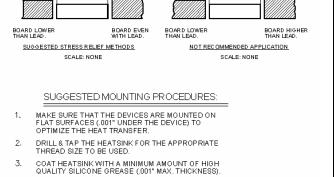


Power De-rating:



Mounting Footprint and Procedure:

.025 MIN. (2 PLACES)



- POSITION DEVICE ON MOUNTING SURFACE & SECURE USING SOCKET HEAD SCREWS, FLAT & SPLIT WASHER. TORQUE SCREWS TO THE APPROPRIATE VALUE.

 SURE THAT THE DEVICE IS FLAT AGAINST THE HEATSINK. (CARE SHOULD BE TAKEN TO AVOID UPWARD PRESSURE OF THE LEADS TOWARDS THE LID).
- 5. SOLDER LEADS IN PLACE USING LEAD FREE TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON

** FOR MORE DETAILS CONTACT FACTORY **

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