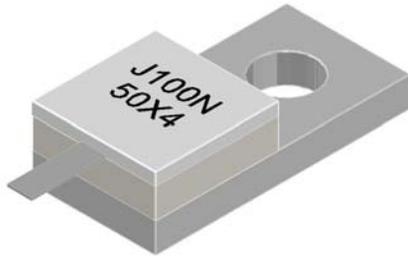


Half Flange Termination 100 Watts, 50Ω



Description

The J100N50X4 is high performance Aluminum Nitride (AlN) 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 or exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

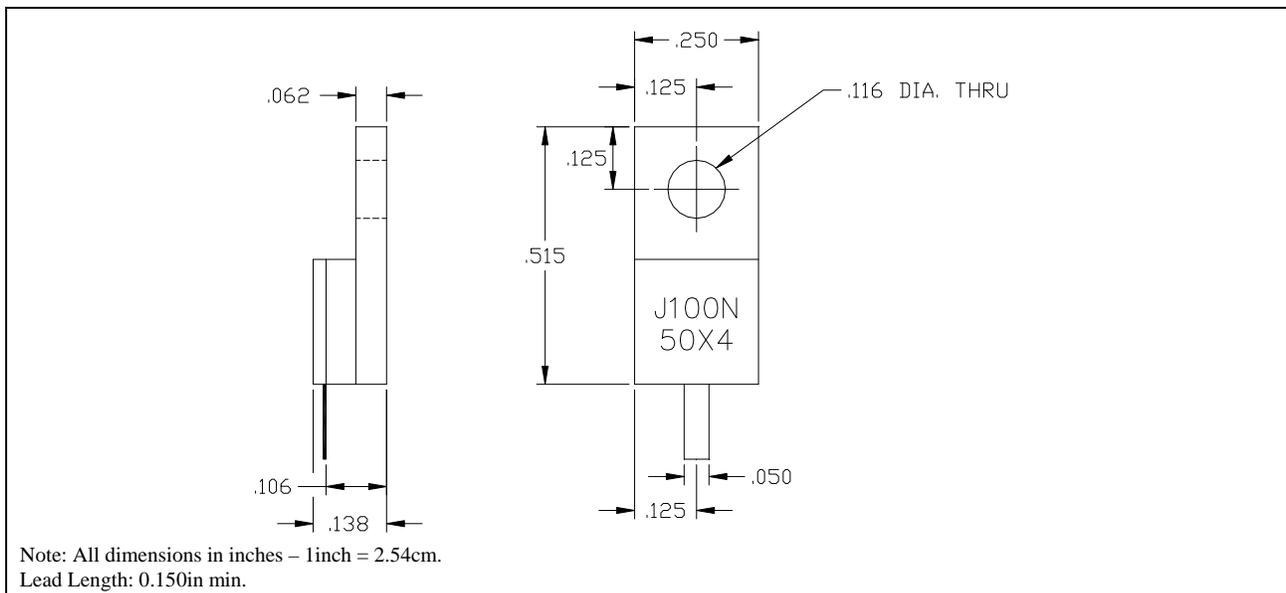
Resistance Value:	50 Ohms, $\pm 2\%$
Power:	100 Watts
Frequency Range:	DC – 3.0GHz
V.S.W.R.	1.25 : 1

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.**

Features:

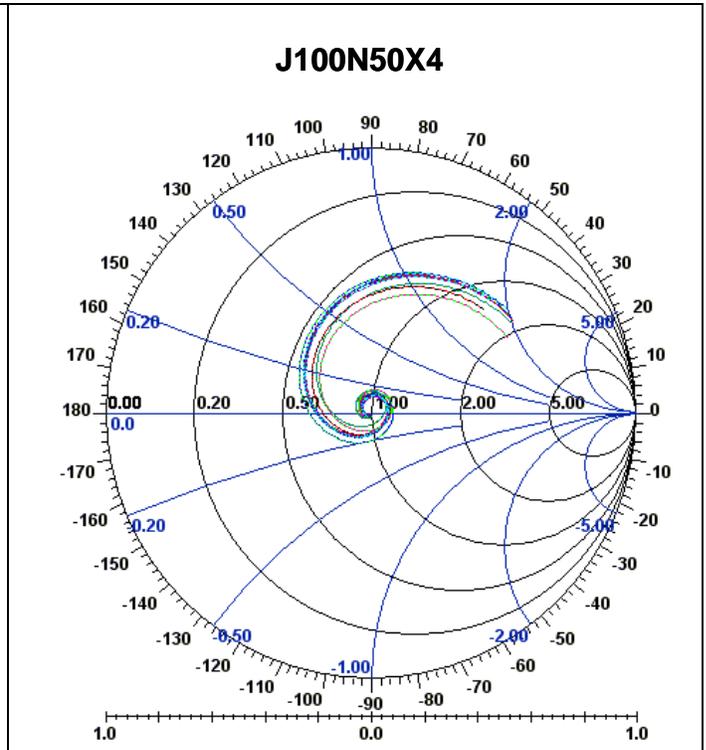
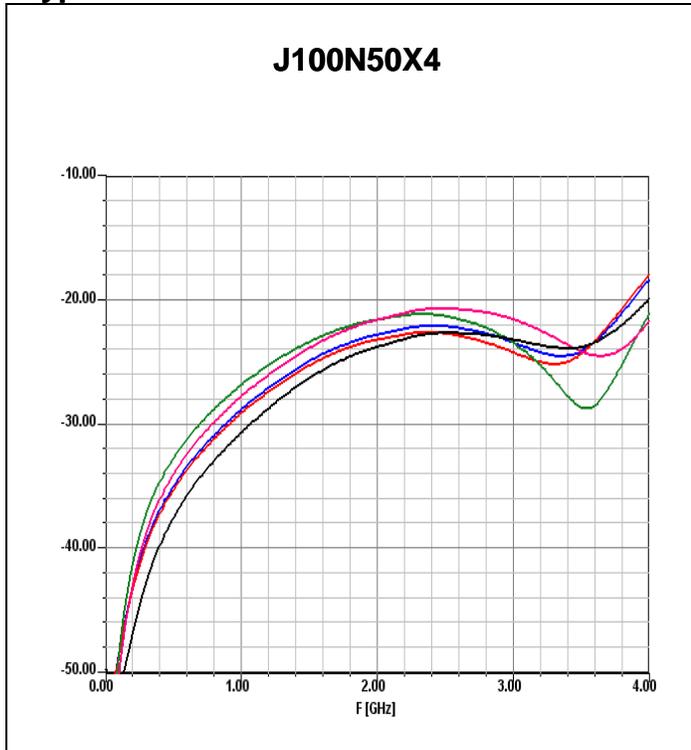
- RoHS Compliant
- 100 Watts
- DC – 3.0 GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Outline Drawing

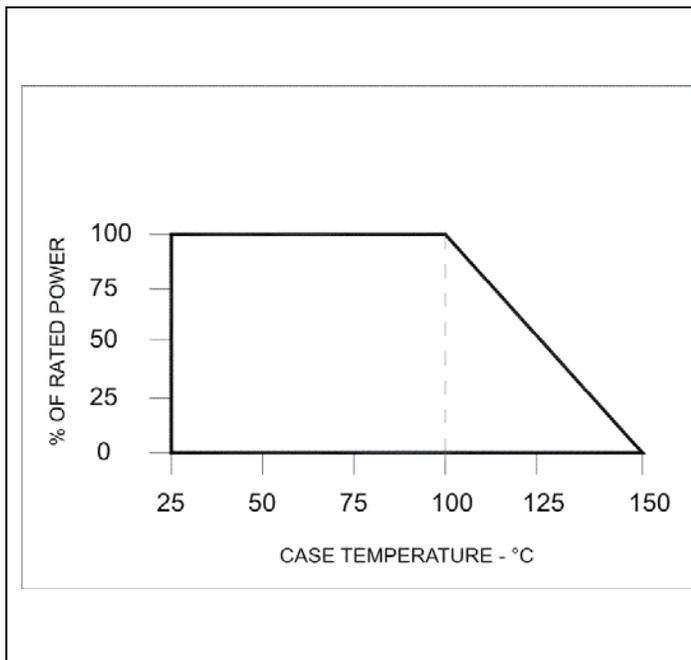


J100N50X4 (097) Rev E.

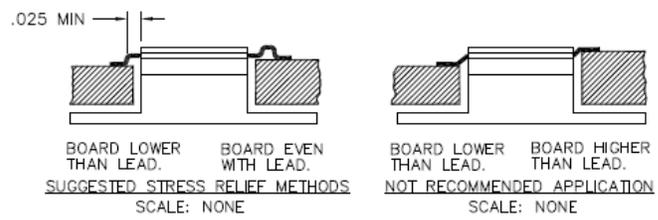
Typical Performance:



Power De-rating:



Mounting Footprint and Procedure:



- SUGGESTED MOUNTING PROCEDURES:**
1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES TO OPTIMIZE THE HEAT TRANSFER.
 2. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING APPROPRIATE SOLDER.
 3. SOLDER LEADS IN PLACE USING AN APPROPRIATE SOLDER TYPE WITH A CONTROLLED TEMPERATURE IRON.

J100N50X4 (097) Rev E