

## Model J100N50X4

Half Flange Termination

100 Watts,  $50\Omega$ 



#### Features:

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

#### **Description**

ROHS Compliant

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**

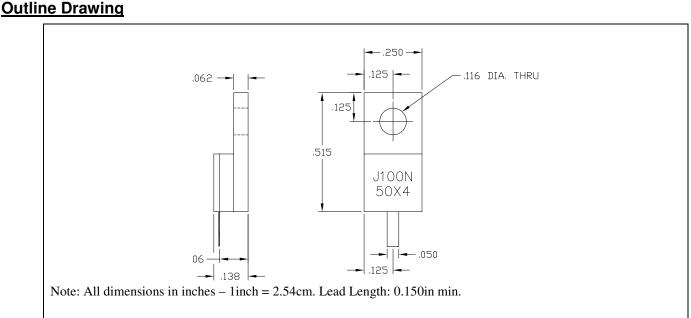
<b>Resistive Element</b>	Thick Film
Substrate	AIN Ceramic
Cover	Alumina Ceramic
Mounting Flange	Copper, nickel plated per QC-N-290
Leads	99% pure silver (.006" thick)
Cover	Alumina Ceramic
Tolorance is +0.010" unless otherwise specified. Designed to most of exceed	

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, ± 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.** 



J100N50X4 (097) Rev D.



USA/Canada: Toll Free: Europe:

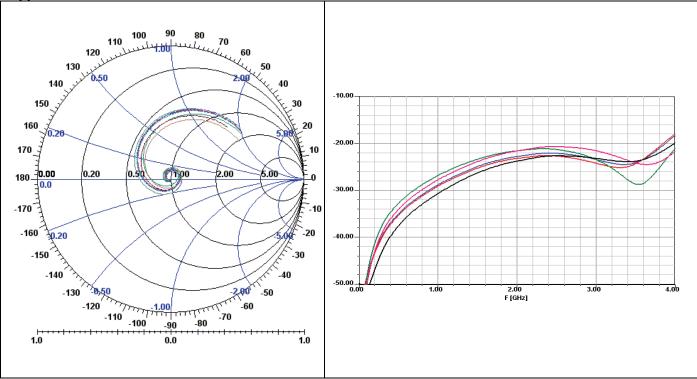
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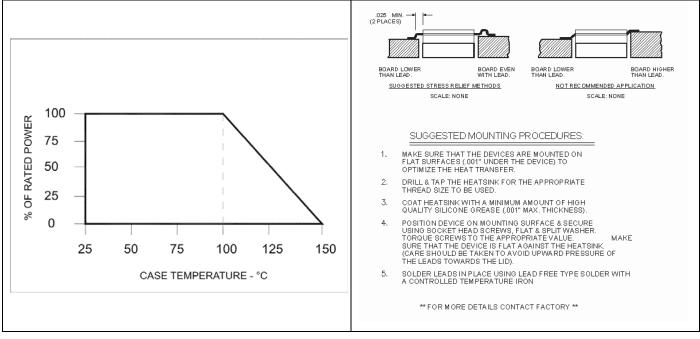


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#### **Typical Performance:**



#### **Power De-rating:**



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**Mounting Footprint and Procedure:**