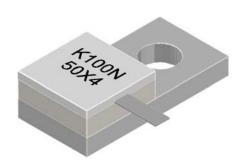




# Half Flange Termination 100 Watts, $50\Omega$



#### Features:

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

#### **Description**

The K100N50X4 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 AIN Ceramic

Cover Alumina Ceramic

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

**Leads** 99% pure silver (.006" thick)

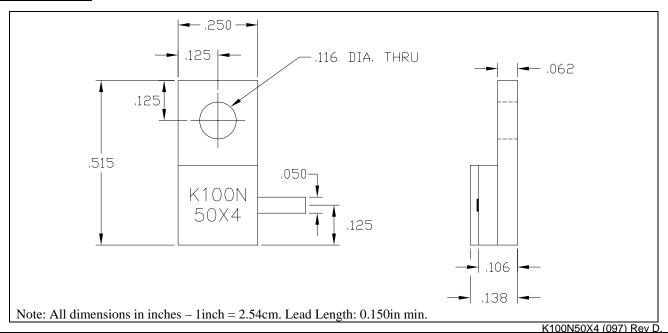
Tolerance is  $\pm 0.010$ ", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

#### **Electrical Specifications**

Resistance Value:50 Ohms,  $\pm$  2%Power: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**





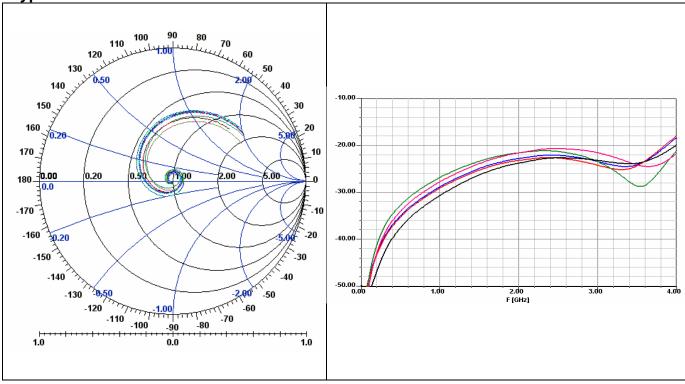
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

## Model K100N50X4

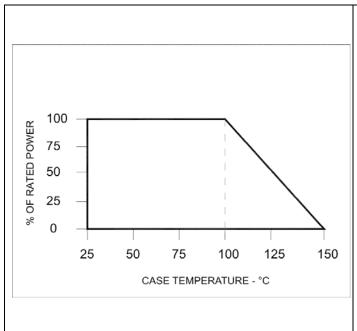




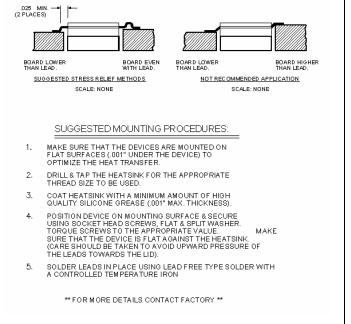
**Typical Performance:** 



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



### **Mounting Footprint and Procedure:**



K100N50X4 (097) Rev D

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