

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



#### Features:

- **RoHS Compliant**
- 100 Watts
- DC 4.0 GHz
- **AIN Ceramic**
- **Non-Nichrome Resistive** Element
- Low VSWR
- 100% Tested

## Outline Drawing



The K100N50X4B 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                           |
| Mounting Flange          | Copper, nickel plated per QC-N-290    |
| Operating Temperature    | -55°C to +150°C (see de rating chart) |

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, ± 2%      |
|-------------------|--------------------|
| Power:            | 100 Watts          |
| Frequency Range:  | DC – 4.0 GHz       |
| Return Loss       | > 26 dB to 1.3 GHz |
|                   | > 22 dB to 4.0GHz  |

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





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### **Typical Performance:**



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



Anarei



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