

# 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 J100N50X4B 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
Mounting Flange	Copper, nickel plated per QC-N-290
Operating Temperature	-55°C to +150°C (see de rating chart)
T 1 1 10 0 (0) 1 1	

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.





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# **Typical Performance:**



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





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