



Features:

- RoHS Compliant
- 100 Watts
- DC 3.5 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

Description

The A100N50X4A is high performance Aluminum Nitride (AIN) chip termination intended as an 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!

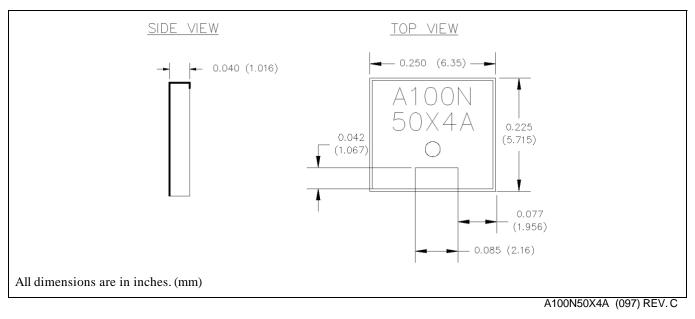
General Specifications

Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +150°C (see de rating chart)
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 – 3.5 GHz
V.S.W.R.:	1.12 : 1 DC – 3.0 GHz
	1.22 : 1 DC – 3.5 GHz

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







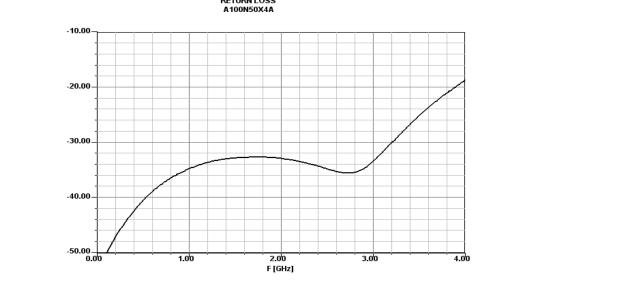
Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392

Model A100N50X4A



Typical Performance:

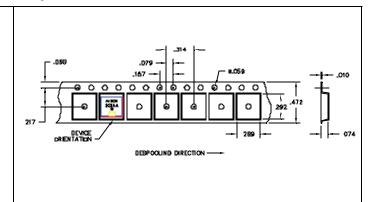


ROHS Compliant

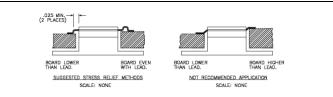
Power De-rating:

POWER DERATING RATED POWER 100 75 50 25 -ЪF 0 . 2 75 150 25 50 100 125 SOLDER INTERFACE TEMPERATURE - "C

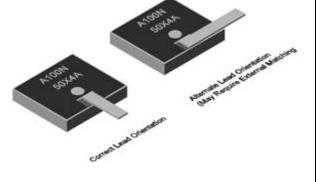
Tape & Reel Available:



Mounting Footprint and Procedure:



- MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
- POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING A LEAD FREE TYPE OR SN96 TYPE SOLDER.
- 3. SOLDER LEADS IN PLACE USING AN SN96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (250°C).



A100N50X4A (097) REV. C

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