Model B100NA30X4

ROHS Compliant

RF Power

Chip Attenuator
100 Watts, 30 dB

Description

The B100NA30X4 is high performance Aluminum Nitride (AlN) chip attenuator 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 monitoring. The termination is also RoHS compliant!

General Specifications

Resistive Element	Thick film
Substrate	AlN 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

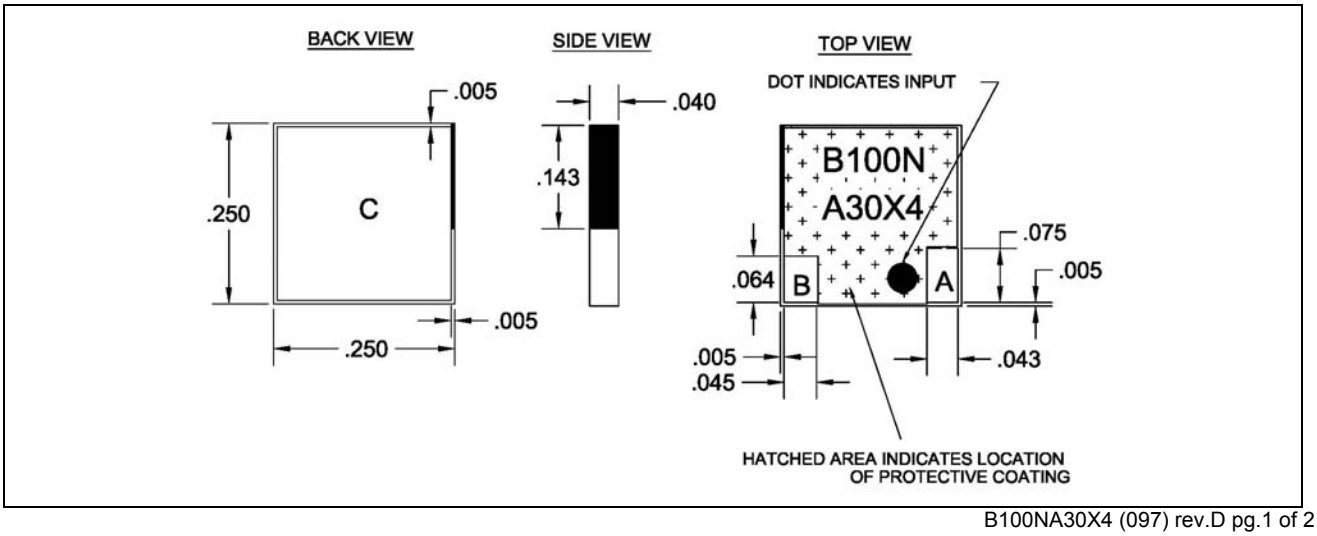
Attenuation Value:	30 dB ± 1.0 dB, DC – 1.5 GHz 30 dB ± 2.5 dB, 1.5GHz – 2.5GHz
Power:	100 Watts
Frequency Range:	DC – 2.7 GHz
Return Loss:	>24 dB to 2.2 GHz >20 dB to 2.7GHz

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

Features:

- **RoHS Compliant**
- **100 Watts**
- **DC - 2.7 GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**
- **Small Size**

Outline Drawing



Available on Tape and Reel For Pick and Place Manufacturing.

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

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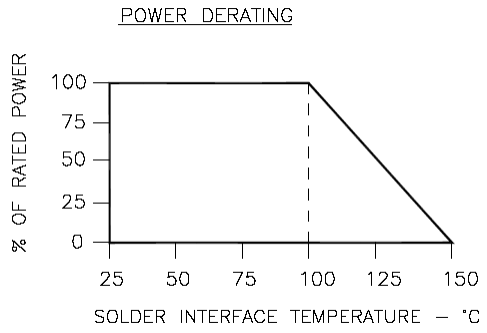
Specifications:

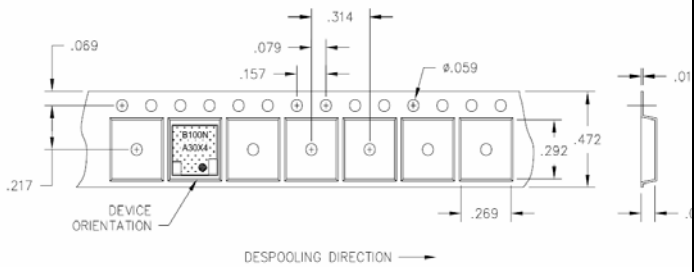
ATTENUATION SPECIFICATION	
Attenuation	Frequency
30dB ±1.0dB	DC – 1.5GHz
30dB ±2.5dB	1.5GHz – 2.7GHz

RESISTOR VALUE CHART				
Attenuation	Value (A – B)	Value (A – C)	Value (B – C)	Tolerance
30dB	93.5Ω	49.9Ω	49.9Ω	±4%

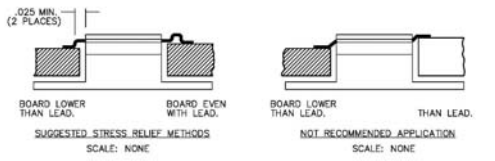
Power De-rating:



Tape & Reel:



Mounting Footprint and Procedure:



SUGGESTED MOUNTING PROCEDURES:

1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES (.001" UNDER THE DEVICE) TO OPTIMIZE THE HEAT TRANSFER.
2. SOLDER LEADS IN PLACE USING A HIGH TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON.
3. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING SN96 SOLDER.

Correct Lead Orientation

Alternate Lead Orientation (May Require External Matching)

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What'll we think of next?™