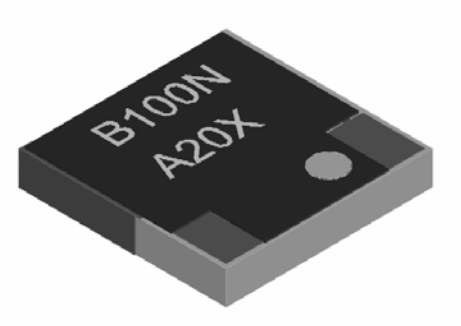
Model B100NA20X4

ROHS Compliant

Chip Attenuator
100 Watts, 20 dB



Description

The B100NA20X4 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!

Features:

- **RoHS Compliant**
- **100 Watts**
- **DC – 4.0 GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**
- **Small Size**

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)

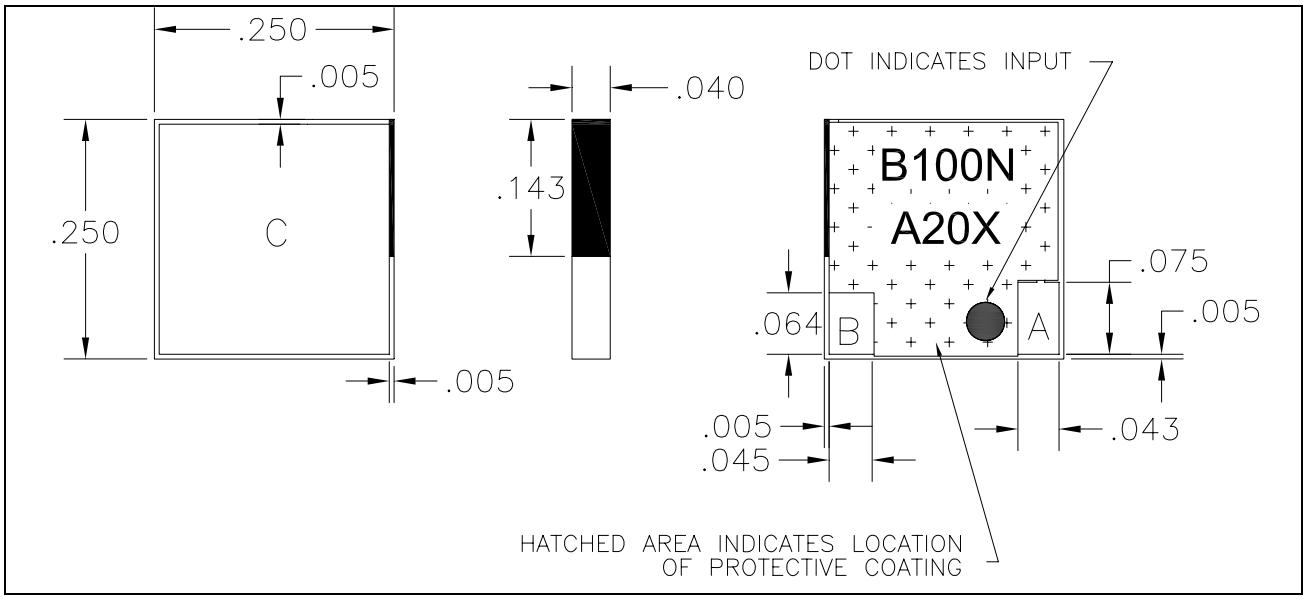
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

Electrical Specifications

Attenuation Value:	20 dB, ± 1.0 dB, DC – 4.0 GHz		
Power:	100 Watts		
Frequency Range:	DC – 4.0 GHz		
Return Loss	>20 dB to 2.7 GHz >19 dB to 4.0 GHz		
Value (A-B)	**Value (A-C)**	**Value (B-C)**	**Tolerance**
81.8 Ω	50.9 Ω	50.9 Ω	± 4%

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

Outline Drawing



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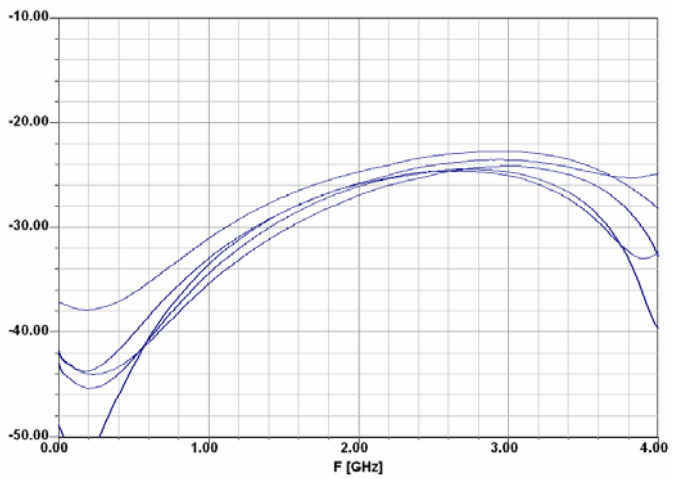
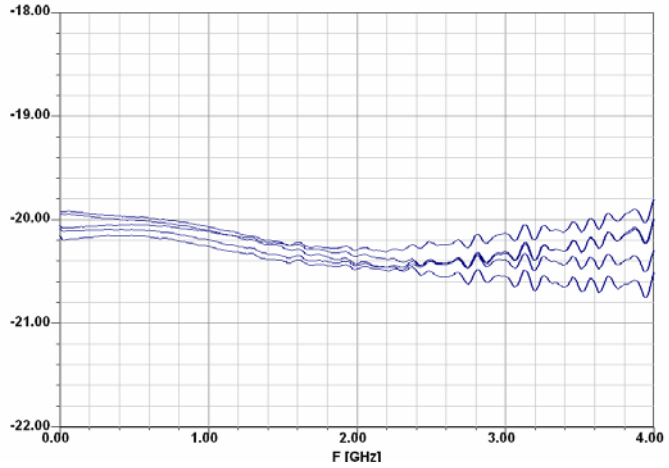
Typical Performance:

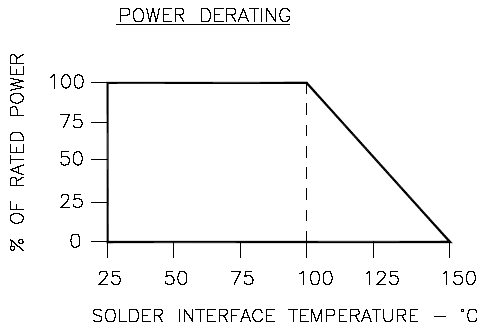
Return Loss:



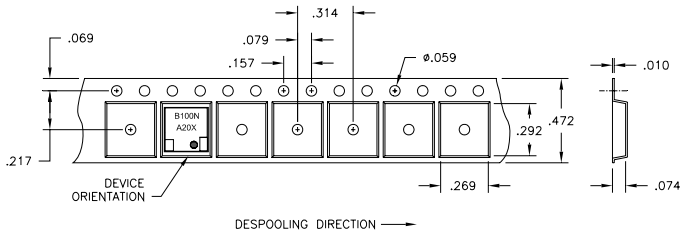
Attenuation:



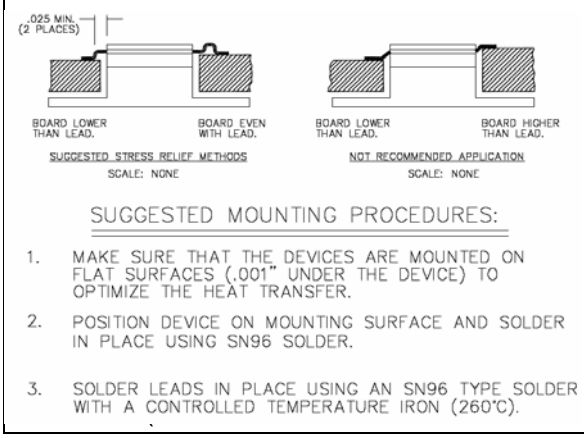
Power De-rating:



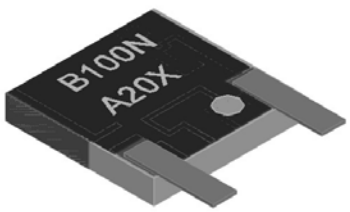
Tape & Reel:



Mounting Footprint and Procedure:



Correct lead orientation



Alternate lead Orientation.
(May require external matching)

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