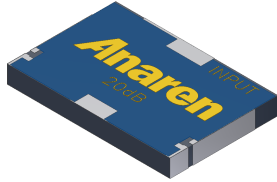


### Chip Attenuator 150 Watts, 20dB



#### Description

The B150NA20X4 is a high performance Aluminum Nitride (AlN) chip attenuator intended as a cost competitive alternative to Beryllium Oxide (BeO). The attenuator 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 Attenuator is also RoHS compliant!

#### Features:

- RoHS Compliant
- 150 Watts
- DC – 2.7GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	AlN Ceramic
<b>Terminal Finish</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature</b>	-55 to +200°C (see de rating chart)

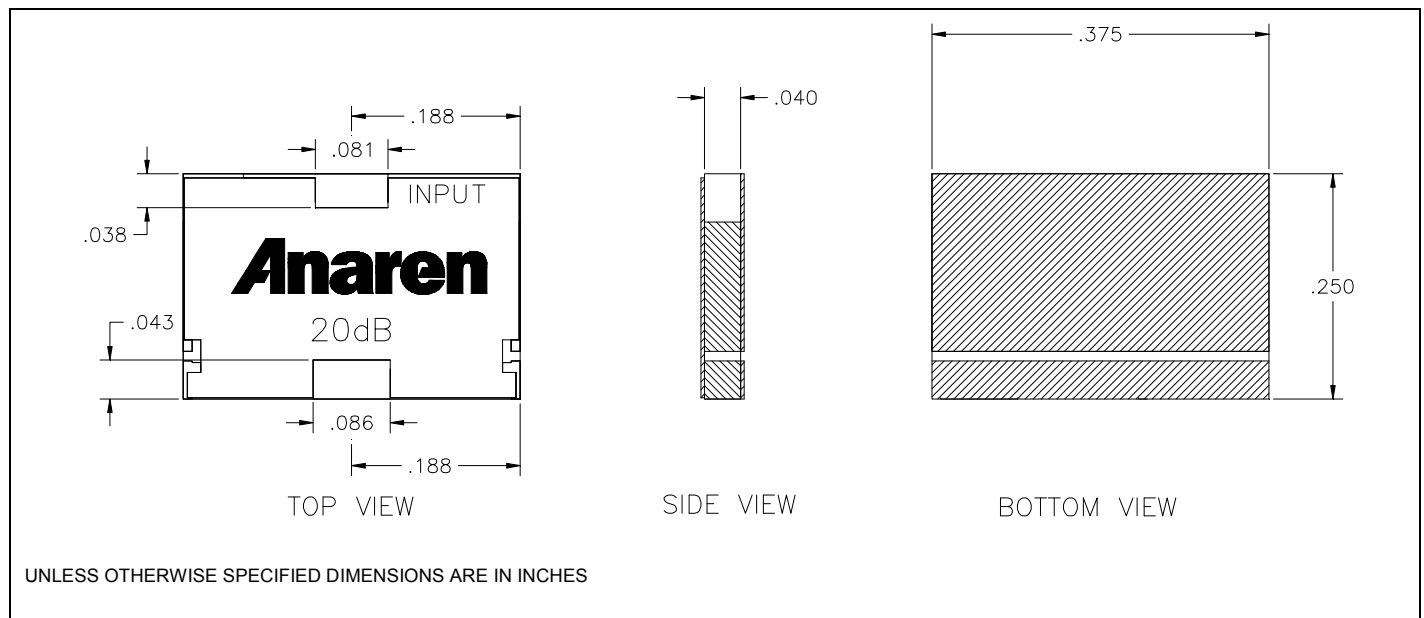
Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

#### Electrical Specifications

<b>Attenuation Value:</b>	20 dB	$\pm 0.5$ dB
<b>Power:</b>	150 Watts	
<b>Frequency Range:</b>	DC – 2.7 GHz	
<b>Input Return Loss:</b>	20 dB	

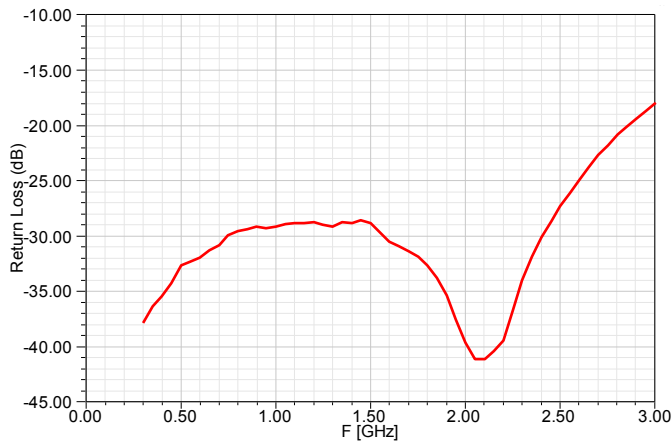
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

#### Outline Drawing

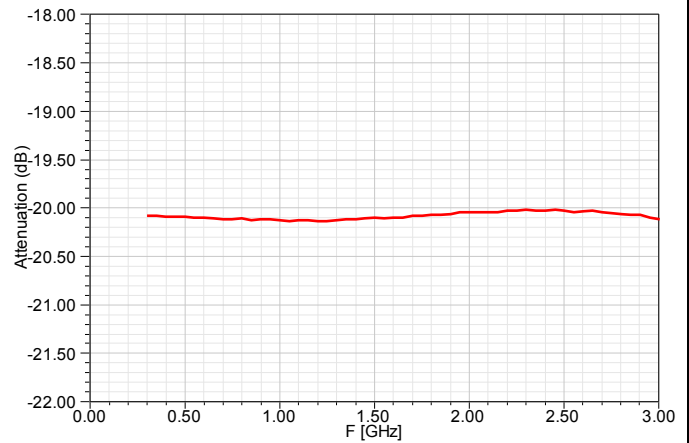


## Typical Performance:

**B150NA20X4  
Return Loss**



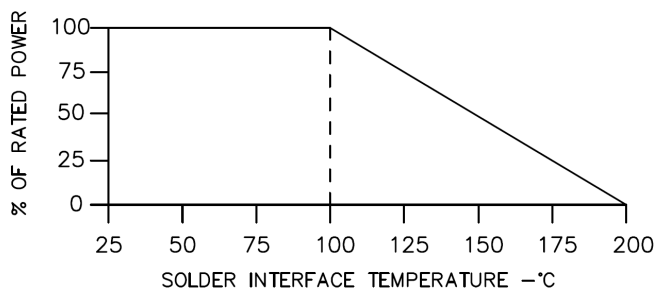
**B150NA20X4  
Attenuation**



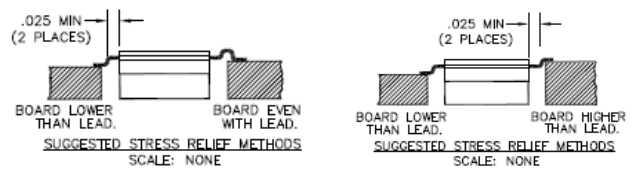
## Power De-rating:

## Mounting Footprint and Procedure:

**POWER DERATING**



\*Actual performance could be limited by the solder properties of the application



### SUGGESTED MOUNTING PROCEDURES:

1. MAKE SURE THAT THE DEVICES ARE MOUNTED ON FLAT SURFACES TO OPTIMIZE THE HEAT TRANSFER.
2. RECOMMENDED FLATNESS UNDER THE DEVICE IS 0.002".

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