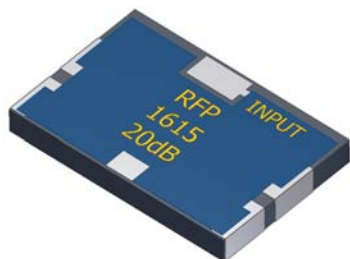


### Chip Attenuator 100 Watts, 20 dB



#### Description

The 1615-20 is 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 Attenuator is also RoHS compliant!

#### 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.**

#### Features:

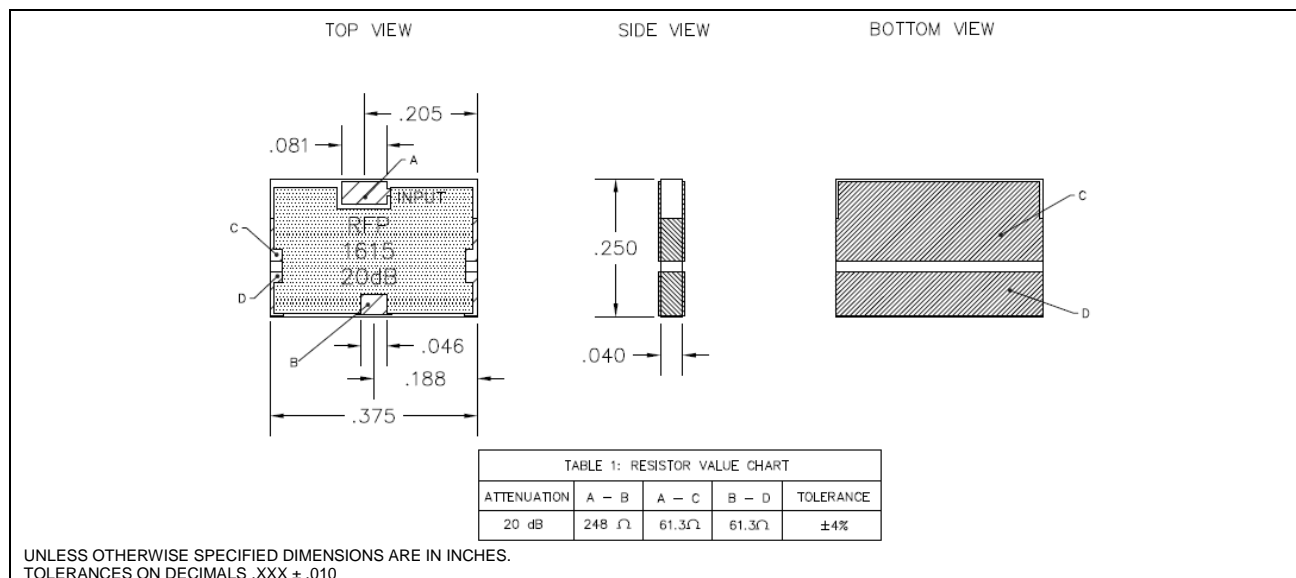
- RoHS Compliant
- 100 Watts
- DC – 2.3 GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

#### Electrical Specifications

<b>Attenuation Value:</b>	20 dB $\pm$ 1.0 dB
<b>Power:</b>	100 Watts
<b>Frequency Range:</b>	DC – 2.3 GHz
<b>VSWR</b>	1.25 : 1

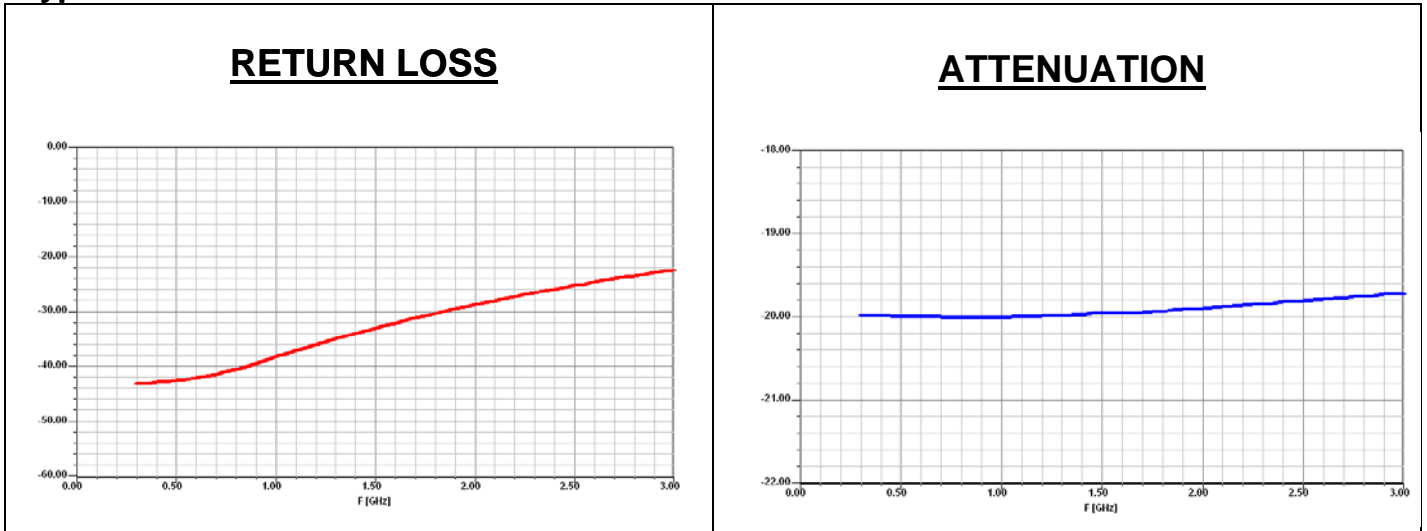
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

#### Outline Drawing

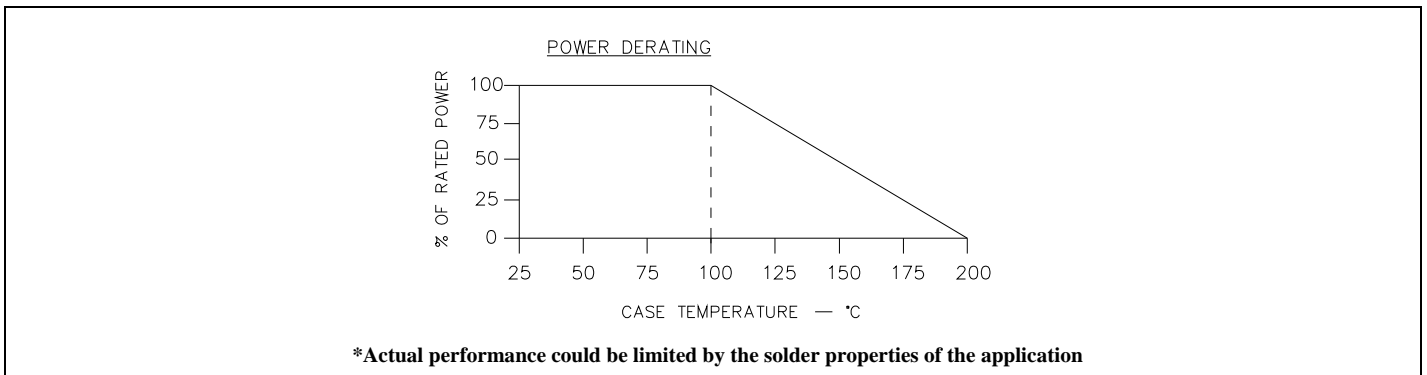


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**Typical Performance:**



**Power De-rating:**



**Mounting Procedure:**

BOARD LOWER THAN LEAD.

BOARD EVEN WITH LEAD.

BOARD HIGHER THAN LEAD.

SUGGESTED STRESS RELIEF METHODS  
SCALE: NONE

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".
3. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING AN APPROPRIATE SOLDER