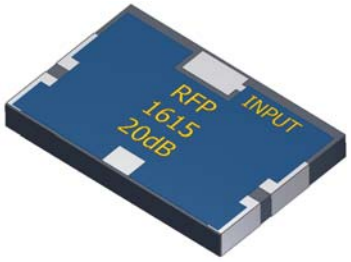
Chip Attenuator
100 Watts, 20 dB



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

Resistive Element	Thick film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +200°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.**

Features:

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

Electrical Specifications

Attenuation Value:	20 dB ± 1.0 dB
Power:	100 Watts
Frequency Range:	DC – 2.3 GHz
VSWR	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

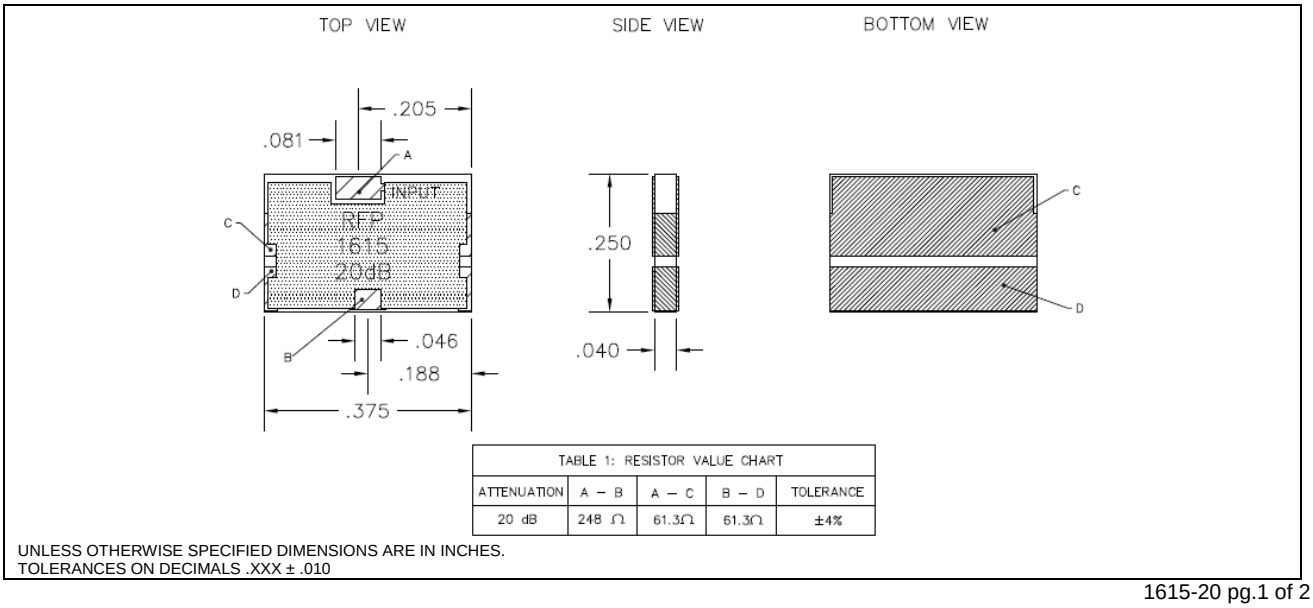


TABLE 1: RESISTOR VALUE CHART				
ATTENUATION	A – B	A – C	B – D	TOLERANCE
20 dB	248 Ω	61.3Ω	61.3Ω	±4%

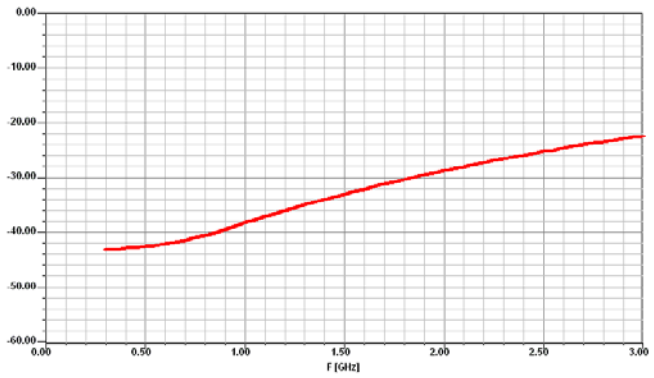
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES ON DECIMALS .XXX ± .010

Anaren
What'll we think of next?™

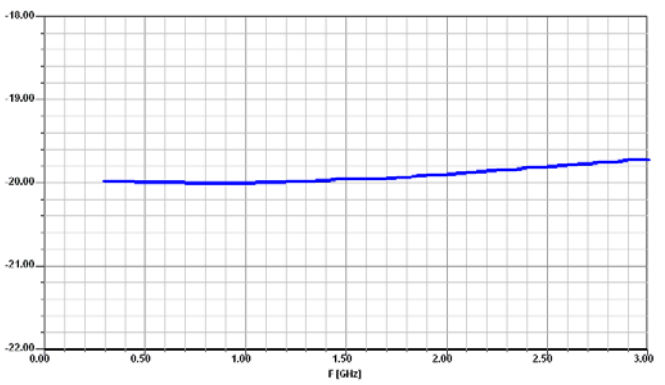
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

Typical Performance:

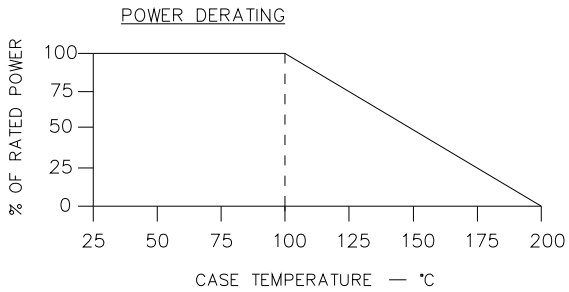
RETURN LOSS



ATTENUATION

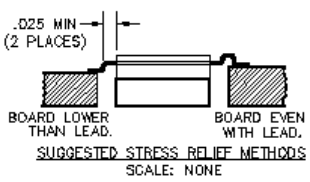


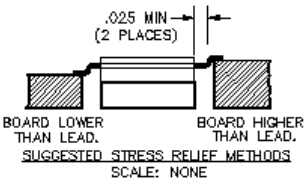
Power De-rating:



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

Mounting Procedure:





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

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