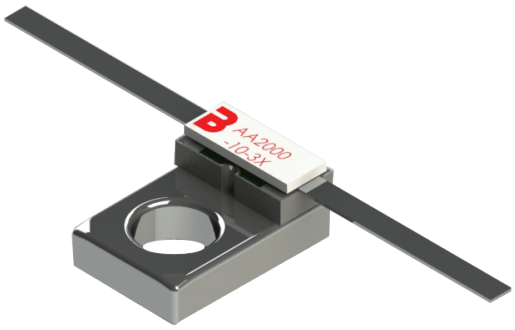
Barry Industries

10W 20dB DC-4GHz AlN Flanged Attenuator

AA2000-10-3X

AA2000-10-3X Features:

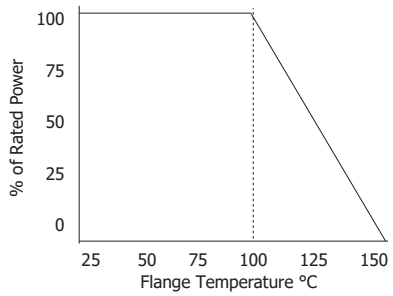
- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Covered Resistive Element
- Symmetrical Design[1]



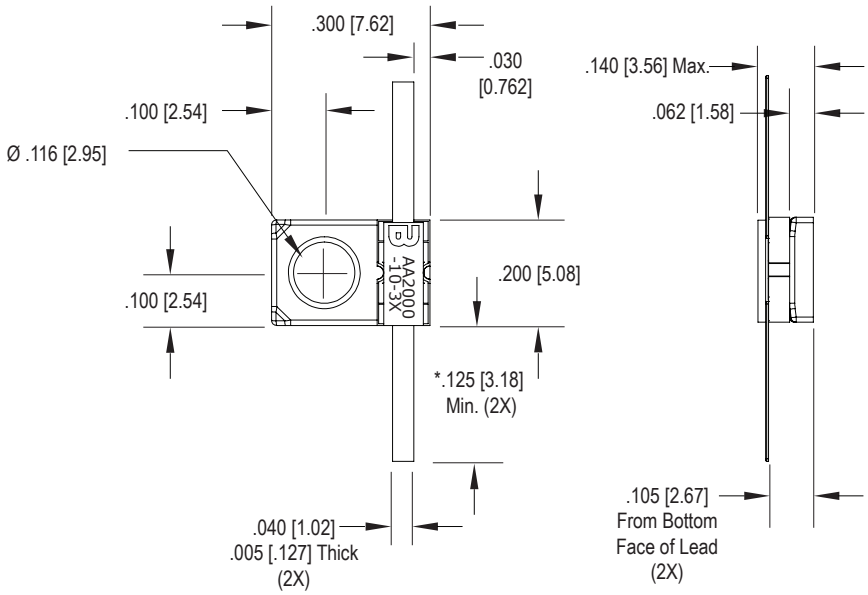
AA2000-10-3X Parameters:

Nominal Attenuation:	20dB
Operating Frequency:	DC - 4GHz
Attenuation Tolerance:	±1dB
Return Loss (Typical)*:	17dB or Better
Input Power:	10W**
Impedance:	50Ω
Resistor Construction:	Thick Film on AlN
Flange Construction:	Silver Plated Copper
Lead Construction:	Silver Plated Copper
Operating Temperature:	-55 to +150°C

AA2000-10-3X Power Derating Curve



AA2000-10-3X Dimensions:



RoHS COMPLIANT

Dimensions in inches [mm]
Tolerance is ± 0.010 [0.254]
unless otherwise stated

[1] Can be mounted in either direction
* In a matched, continuous 50Ω system with proper workmanship
** Rating based on ≤100°C constant baseplate temperature

Ordering Information:

AA	2000	-	10	-	3X
Prefix for Flanged Attenuator with AlN Substrate	Value Code 2000 - 20dB		Input Power 10 - 10W		Assigned by Factory

Barry Industries reserves the right to change part number and/or process without notification.

AA2000-10-3X Reliability Data:

Parameter:	Test Condition:	Results:
Short Time Overload	Apply 1.1x Rated Power for 5 Seconds.	≤ 5.0% Resistance Shift
Rated Load Life	Apply 1/2 Power Under 40°C ±2°C 90 Minutes on/ 30 Minutes off. Repeat for 100 hours	≤ 5.0% Resistance Shift
Moisture Resistance	MIL-PRF-55342 para.4.8.9 95% RH, 25°C - 65°C	≤ 5.0% Resistance Shift
Resistance to Soldering Heat (Lead)	MIL-STD-202 Method 210 Test Condition "A"	≤ 5.0% Resistance Shift
Resistance to Soldering Heat (Assembly)	MIL-STD-202 Method 210 Test Condition "J"	≤ 5.0% Resistance Shift
Terminal Strength	MIL-STD-202 Method 211 Test Condition "A" 3lbs. Test Condition "B" 5 bends	No Significant Abnormality (Visual)
Solderability (Lead only)	MIL-STD-202 Method 208 Test C	>95% Covered
High Temperature Storage	125°C ±2°C for 500 Hours	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)
Thermal Shock	-5°C to +150°C 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)