

20W 31dB DC-1GHz BeO Flanged Attenuator

A3100-20-3X

A3100-20-3X Features:

Flange Mount

High Rated Power

RoHS Compliant

- · Covered Resistive Element
- · Customer Defined Testing Available
- Symmetrical Design¹

A3100-20-3X Parameters:

Nominal Attenuation: 31dB

Operating Frequency: DC - 1GHz

Attenuation Tolerance: -3dB +1dB

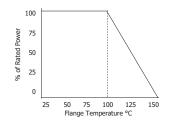
Return Loss (Typical)*: 20dB or Better

Input Power: $20W^{**}$ Impedance: 50Ω

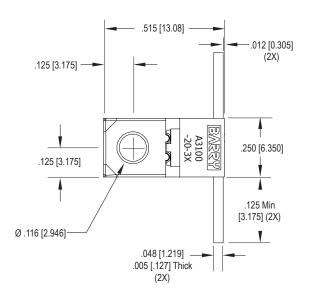
Resistor Construction: Thick Film on BeO
Flange Construction: Silver Plated Copper
Lead Construction: Silver Plated Copper
Operating Temperature: -55 to +150°C

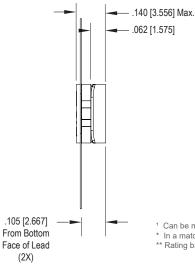
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A3100-20-3X Power Derating Curve



A3100-20-3X Dimensions:







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:



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



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A3100-20-3X 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 Shift2.) No Significant Abnormality (Visual)
Thermal Shock	-5°C to +150°C 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift2.) No Significant Abnormality (Visual)

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