

AA2100-100-3X Features:

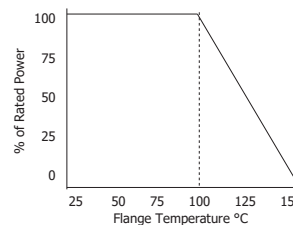
- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Covered Resistive Element

AA2100-100-3X Parameters:

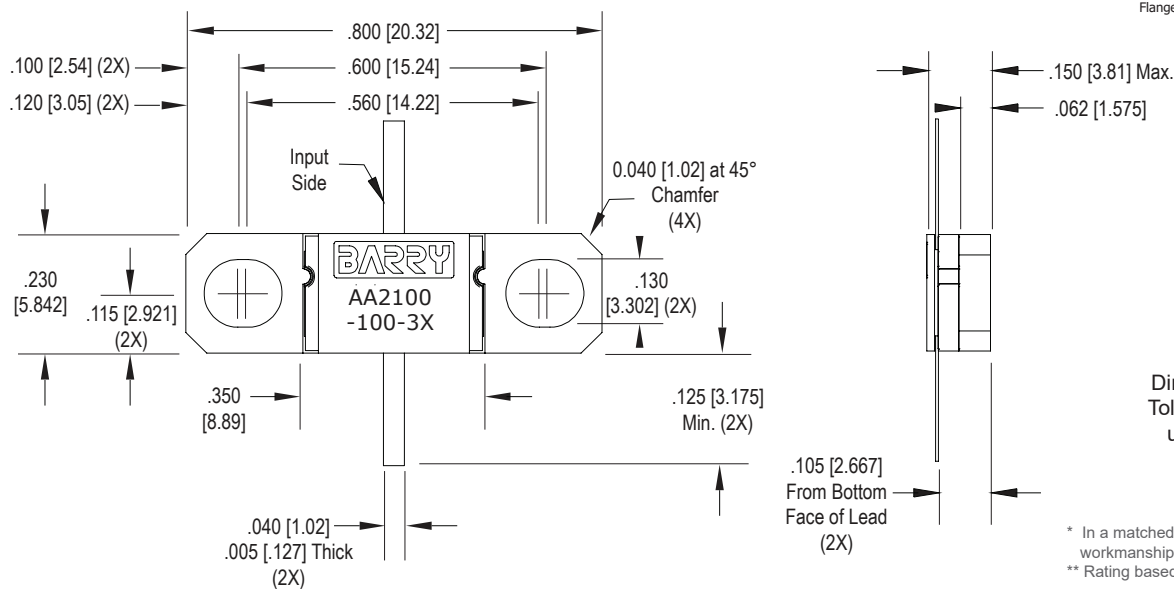
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|-------------------------|----------------------|
| Nominal Attenuation: | 21dB |
| Operating Frequency: | DC - 3GHz |
| Attenuation Tolerance: | ±1dB |
| Return Loss (Typical)*: | 24dB or Better |
| Input Power: | 100W** |
| Impedance: | 50Ω |
| Resistor Construction: | Thick Film on AIN |
| Flange Construction: | Silver Plated Copper |
| Lead Construction: | Silver Plated Copper |
| Operating Temperature: | -55 to +150°C |



AA2100-100-3X Power Derating Curve



AA2100-100-3X Dimensions:



Ordering Information:

| | | | | | | |
|--|------------|-------------|---|-------------|---|---------------------|
| AA | | 2100 | - | 100 | - | 3X |
| Prefix for Flanged Attenuator with AIN Substrate | Value Code | 2100 - 21dB | | Input Power | | Assigned by Factory |
| | | | | 100 - 100W | | |

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

| ORIG. | REV. | No. |
|-------------|------------|-----|
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AA2100-100-3X 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) |

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