

A1400-40-3X Features:

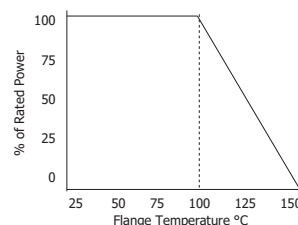
- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Covered Resistive Element
- Symmetrical Design¹

A1400-40-3X Parameters:

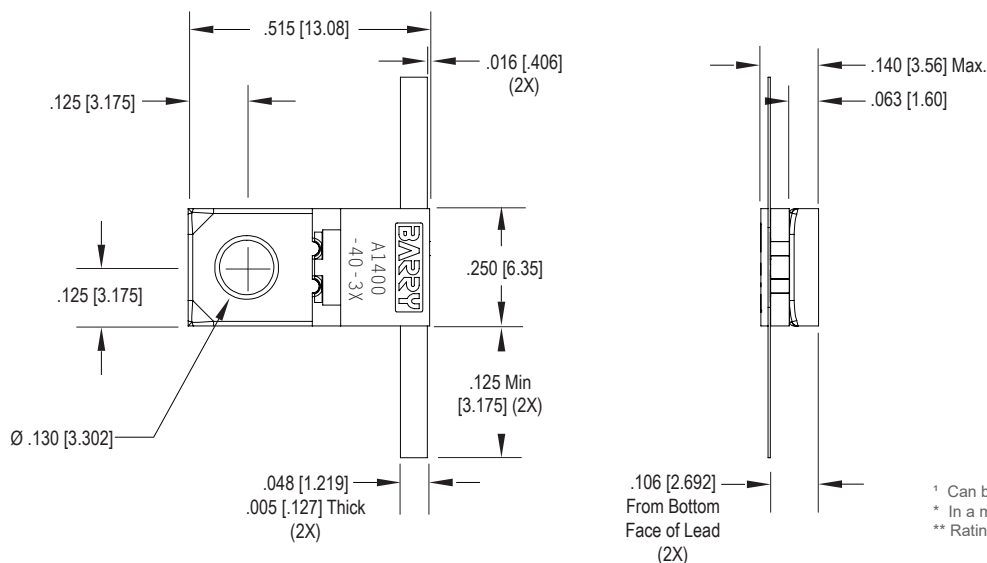
| | |
|-------------------------|----------------------|
| Nominal Attenuation: | 14dB |
| Operating Frequency: | DC - 3GHz |
| Attenuation Tolerance: | ±0.5dB |
| Return Loss (Typical)*: | 17dB or Better |
| Input Power: | 40W** |
| Impedance: | 50Ω |
| Resistor Construction: | Thick Film on BeO |
| Flange Construction: | Silver Plated Copper |
| Lead Construction: | Silver Plated Copper |
| Operating Temperature: | -55 to +150°C |



A1400-40-3X Power Derating Curve



A1400-40-3X 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:

| A 1400 - 40 - 3X | | | |
|-------------------------------|---------------------------|-------------------------|---------------------|
| Prefix for Flanged Attenuator | Value Code 1400 - 14dB | Input Power 40 - 40W | Assigned by Factory |

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

A1400-40-3X Reliability Data:

| Parameter: | Test Condition: | Results: |
|---|--|--|
| Short Time Overload | Apply 1.1x Rated Power for 5 Seconds. | $\leq 5.0\%$ Resistance Shift |
| Rated Load Life | Apply 1/2 Power Under $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90 Minutes on/ 30 Minutes off. Repeat for 100 hours | $\leq 5.0\%$ Resistance Shift |
| Moisture Resistance | MIL-PRF-55342 para.4.8.9 95% RH, $25^{\circ}\text{C} - 65^{\circ}\text{C}$ | $\leq 5.0\%$ Resistance Shift |
| Resistance to Soldering Heat (Lead) | MIL-STD-202 Method 210 Test Condition "A" | $\leq 5.0\%$ Resistance Shift |
| Resistance to Soldering Heat (Assembly) | MIL-STD-202 Method 210 Test Condition "J" | $\leq 5.0\%$ 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 | $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 500 Hours | 1.) $\leq 5.0\%$ Resistance Shift 2.) No Significant Abnormality (Visual) |
| Thermal Shock | -5°C to $+150^{\circ}\text{C}$ 30 Minutes Dwell, 5 Cycles | 1.) $\leq 5.0\%$ Resistance Shift 2.) No Significant Abnormality (Visual) |

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