

RXXXX-800-1E Features:

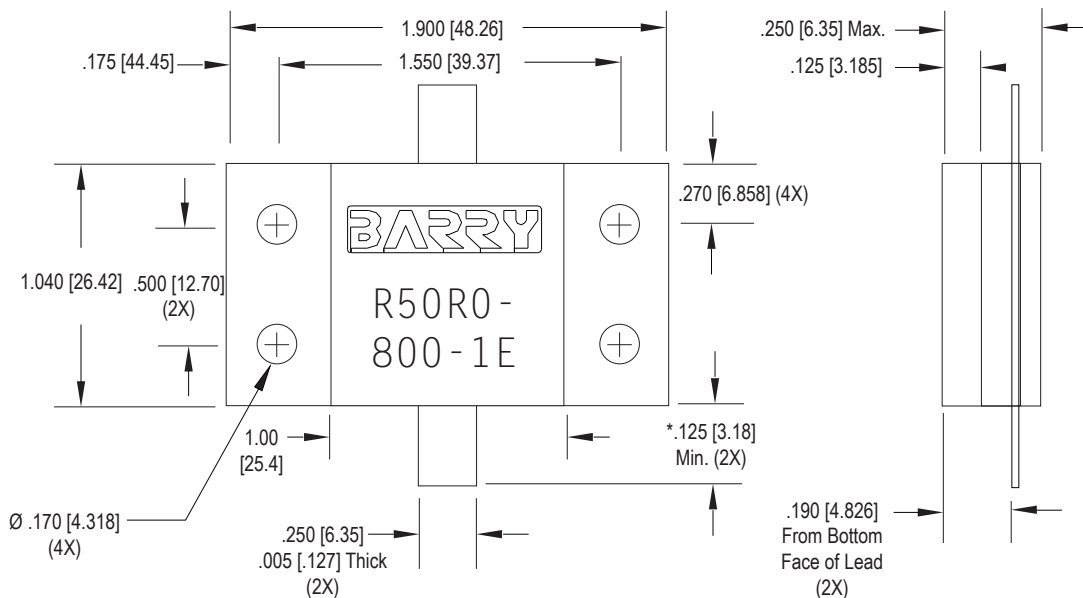
- TCE Matched, All Brazed Construction
- Enhanced Mechanical Strength
- RoHS Compliant
- Covered Resistor Element
- Customer Defined Testing Available
- $\pm 5\%$ Resistor Tolerance

RXXXX-800-1E Parameters:

Rated Power:	800W*
Capacitance (Typical):	26.45pF at 1MHz
Resistor Construction:	Thick Film on BeO Attached with AuGe Braze
Flange Construction:	Copper Tungsten
Lead Construction:	Copper Attached with AuGe Braze
Operating Temperature:	-55 to +250°C

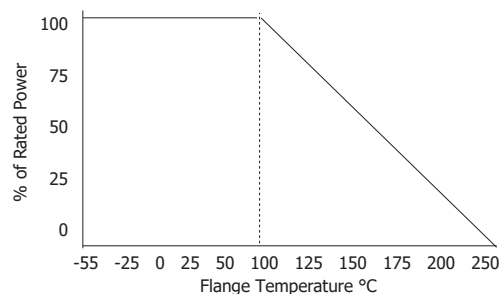
* Rating based on $\leq 100^\circ\text{C}$ constant flange temperature

RXXXX-800-1E Dimensions:



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

RXXXX-800-1E Power Derating Curve



Ordering Information:

Example Part Number: R50R0-800-1E

Prefix for Flanged Resistor	Value Code Examples	Rated Power	Assigned by Factory
R	XXXX -	800 -	1E
	1R00 - 1 Ω	1001 - 1K Ω	
	10R0 - 10 Ω	1002 - 10K Ω	
	1000 - 100 Ω	1003 - 100K Ω	

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

RXXXX-800-1E Reliability Data:

Parameter:	Test Condition:	Results:
Short Time Overload	Apply 1.1x Rated Power for 5 Seconds.	$\leq 2.0\%$ Resistance Shift
Rated Load Life	Apply Full Power at $100^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90 Minutes on/ 30 Minutes off. Repeat for 1000 hours	$\leq 2.0\%$ Resistance Shift
Moisture Resistance	MIL-PRF-55342 para.4.8.9 95% RH, $25^{\circ}\text{C} - 65^{\circ}\text{C}$	$\leq 2.0\%$ Resistance Shift
Resistance to Soldering Heat (Lead)	MIL-STD-202 Method 210 Test Condition "A"	$\leq 2.0\%$ Resistance Shift
Resistance to Soldering Heat (Assembly)	MIL-STD-202 Method 210 Test Condition "J"	$\leq 2.0\%$ 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
Insulation	Apply DC 500V for 1 Minute	>1000Mohm
High Temperature Storage	$125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 500 Hours	1.) $\leq 2.0\%$ Resistance Shift 2.) No Significant Abnormality (Visual)
Thermal Shock	-65°C to $+150^{\circ}\text{C}$ Each Cycle 30 Minutes for 500 Hours	1.) $\leq 2.0\%$ Resistance Shift 2.) No Significant Abnormality (Visual)

For further detail on the advantages of using TCE Matched Copper-Tungsten flange mount devices from Barry Industries please refer to the Application Note 'Finite Element Analysis of a High Power Resistor'. This document can be found on the Barry Industries website: www.barryind.com.

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