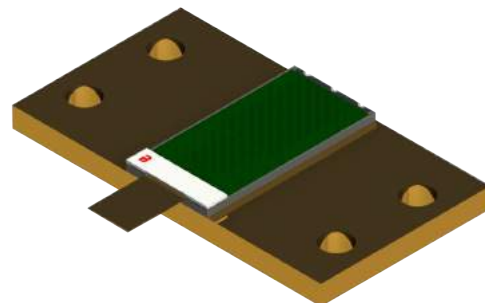
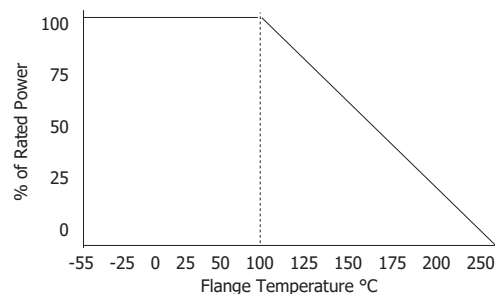
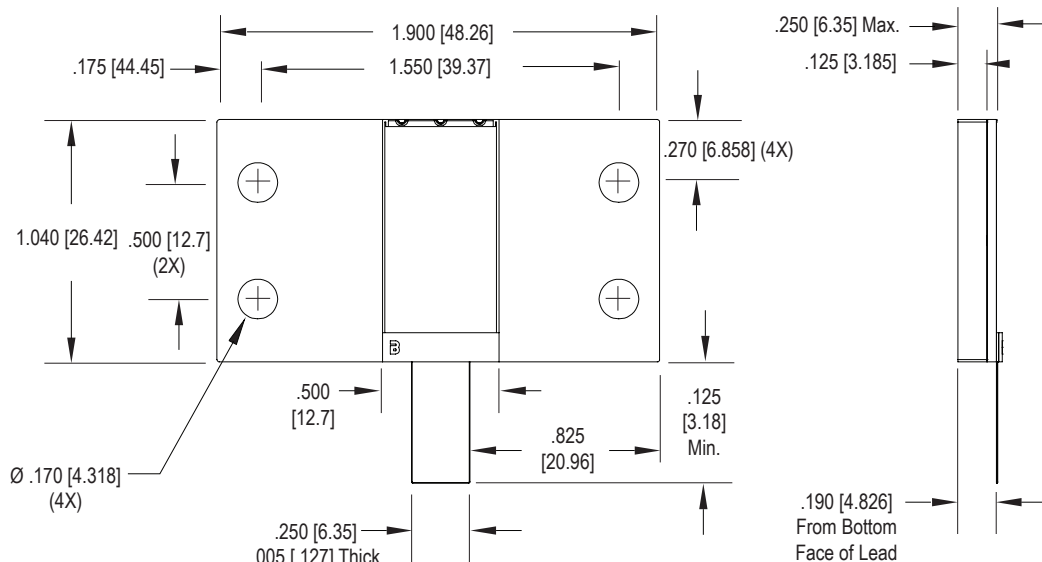


T50R0-800-11E Features:

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

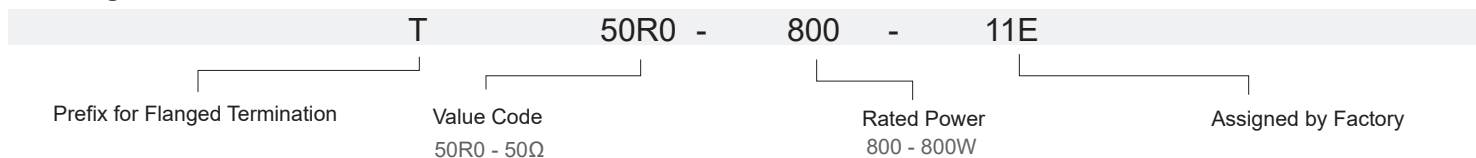
T50R0-800-11E Parameters:

Operating Frequency: DC - 1GHz
 Rated Power: 800W*
 Return Loss (Typical)**: 20dB or Better
 Impedance: 50Ω ±5%***
 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


T50R0-800-11E Power Derating Curve

T50R0-800-11E Dimensions:


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

* Rating based on ≤100°C constant flange temperature
 ** In a matched, continuous 50Ω system with proper workmanship
 *** Other values and tolerances available. Contact factory.

Ordering Information:


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

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T50R0-800-11E Reliability Data:

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

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