Barry Industries

100W DC-6GHz BeO Flanged Termination

T50R0-100-18X

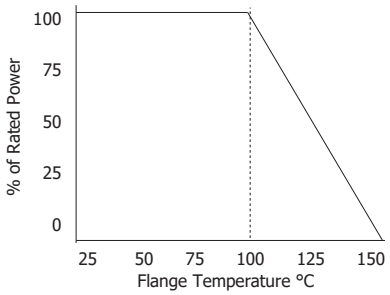
T50R0-100-18X Features:

- Flange Mount
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- Covered Resistor Element
- ±5% Resistor Tolerance

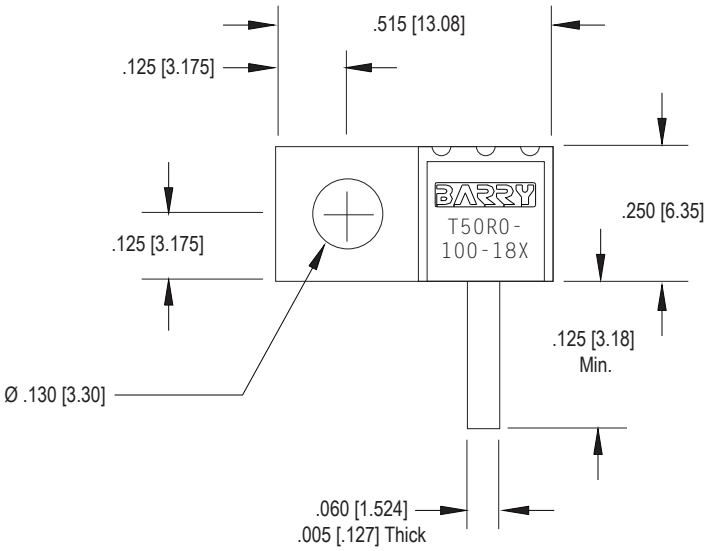
T50R0-100-18X Parameters:

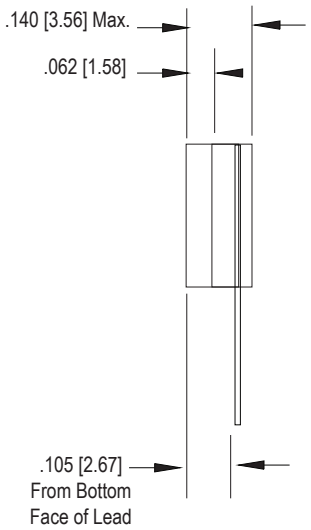
Operating Frequency:	DC - 6GHz
Rated Power:	100W*
Return Loss (Typical)**:	17dB or Better
Impedance:	50Ω ±5%***
Resistor Construction:	Thick Film on BeO
Flange Construction:	Silver Plated Copper
Lead Construction:	Silver Plated Copper
Operating Temperature:	-55 to +150°C

T50R0-100-18X Power Derating Curve



T50R0-100-18X Dimensions:





RoHS COMPLIANT

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

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

Ordering Information:

T 50R0 - 100 - 18X

Prefix for Flanged Termination	Value Code	Rated Power	Assigned by Factory
	50R0 - 50Ω	100 - 100W	

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

T50R0-100-18X 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)