

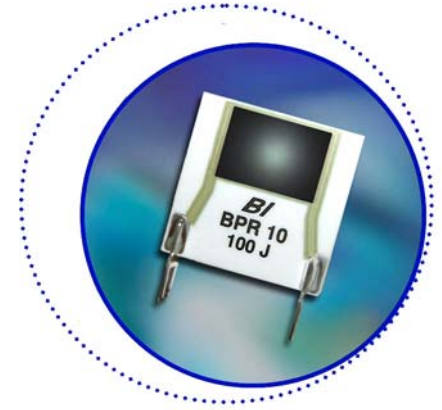
3W to 50W PLANAR SHOCK / VIBRATION PROOF HIGH POWER RESISTORS

Features

- Non-Inductive planar package
- High power density.
- Thin package for high density PCB installation.
- Power dissipated above the board.
- RoHS compliant.
- Superior vibration durability

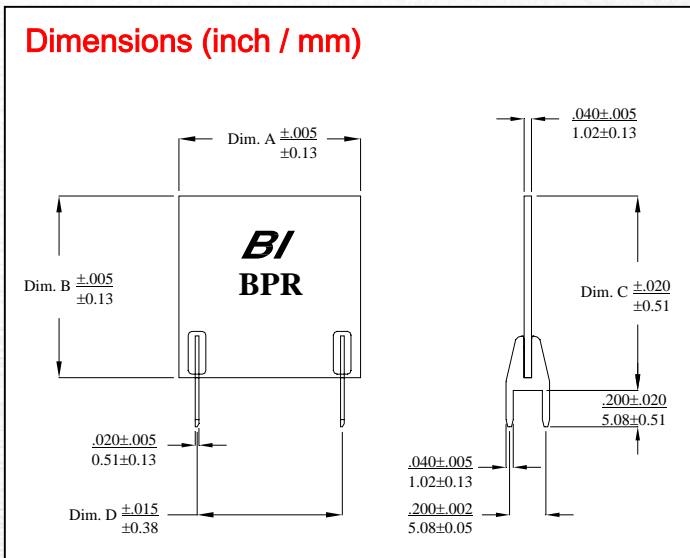
Applications

- Ideal for extreme mechanically stressed environments.
- Power supply pre-load resistors.
- UPS systems
- Snubber and pulse handling circuits.
- Pulse generator load resistors.
- In-rush current protection
- Bleeder Resistors



Specification

Dimensions (inch / mm)



Model	BPR 3	BPR 5	BPR 7	BPR 10	BPR 20	BPR 30	BPR 40	BPR 50
Dim A	0.50	0.50	1.00	1.00	2.00	2.10	2.10	2.10
	12.70	12.70	25.40	25.40	50.80	53.34	53.34	53.34
Dim B	0.60	1.00	0.75	1.00	1.00	1.40	1.90	2.20
	15.24	25.40	19.05	25.40	25.40	35.56	48.26	55.88
Dim C	0.67	1.07	0.82	1.07	1.07	1.47	1.97	2.27
	17.02	27.18	20.82	27.18	27.18	37.34	50.04	57.66
Dim D	0.30	0.30	0.80	0.80	1.80	1.90	1.90	1.90
	7.62	7.62	20.32	20.32	45.72	48.26	48.26	48.26

Materials

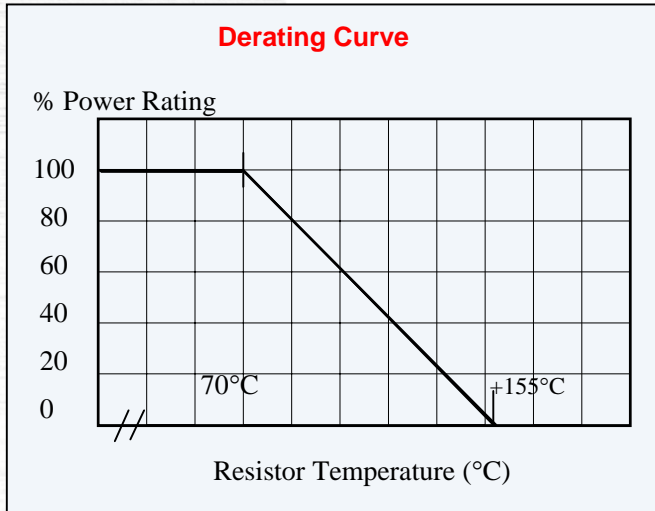
Lead: Tin Plated Phosphor Bronze
 Substrate: 96% Alumina
 Resistor: Ruthenium Oxide

Notes:

1. Contact factory for custom products, non-standard values and tolerances.

Items	Specification	Conditions
Power Rating	3W, 5W, 7W, 10W, 20W, 30W, 40W & 50W,	@ ambient temp < 70°C
Operating Voltage Max	300Vac, 500VDC	
Resistance Range	0.1Ω to 200 KΩ	Extended resistance range available.
TCR	100 ppm/°C	For -55 to +155°C and above 1Ω
Tolerance	+/-5%, optional 1%, 2%	
Operation Temp. Range	-55 - +155 °C	
Dielectric Withstanding Voltage	5KV minimum	
Mechanical Shock	ΔR +/- 0.25 %	100G.
Load Life	ΔR +/- 2.0 %	70°C, 90 min. ON, 30 min.OFF, 1000 hours.
Humidity	ΔR +/- 0.5 %	85°C, 85% RH, DC 0.1W, 1000 hours.
Temperature Cycle	ΔR +/- 0.5%	-55°C, 30 min., +155°C 30min., 5cycles.
Soldering Heat (Max)	ΔR +/- 0.25 %	250+/-5°C, 10 seconds,
Solderability	Min 95% coverage	230+/-5°C, 5 seconds.
Insulation Resistance	Over 1000 MΩ	Between terminals and metal back plate.
Vibration	ΔR +/- 0.25 %	20G, 10Hz to 2 KHz.

Specifications subject to change without notice



Ordering Information

