

## 3W to 10W Planar High Power Resistors

### BPC Series

- Non-Inductive planar package
- High power density.
- Thin package for high density PCB installation.
- Power dissipated above the board.

### Applications

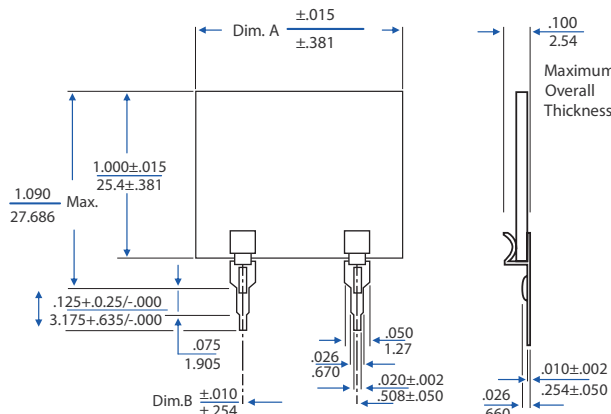
- Power supply pre-load resistors.
- UPS systems
- Snubber and pulse handling circuits.
- Pulse generator load resistors.
- In-rush current protection
- Bleeder Resistors



All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

### Specification (Dimensions)

Model	BPC3	BPC5	BPC7	BPC10
Dim A	0.40 10.16	0.50 12.70	0.75 19.05	1.00 25.40
Dim B	0.20 5.08	0.20 5.08	0.50 12.70	0.80 20.32



### Materials

Leads:  
Tin Plated Copper Alloy  
Substrate: 96% Alumina  
Resistor: Thick Film

#### Notes:

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

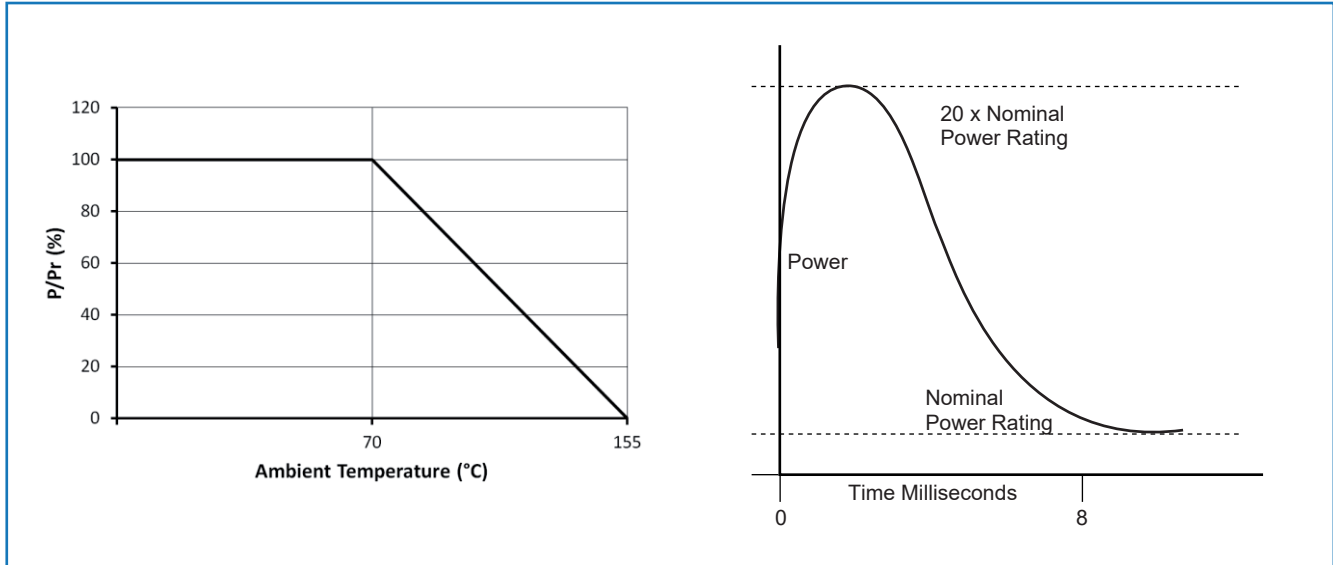
Items	Specification	Conditions
Power Rating	3W, 5W, 7.5W & 10W	@ ambient temp < 70°C
Operating Voltage Max	300Vac, 500VDC	
Resistance Range	0.1Ω to 200 KΩ	Extended resistance range available.
TCR	100 ppm/°C	For -55 to +155°C and above 1Ω.
Tolerance	10, optional +/-5%, 1%, 2%	
Operating Temp. Range	-55 - +155 °C	
Dielectric Withstand Voltage	5000 Volts minimum	
Mechanical Shock	ΔR +/- 0.25 %	100G.
Vibration	ΔR +/- 0.25 %	20G, 10 to 2KHz
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.
Solder Heat (Max)	ΔR +/- 0.25 %	260+/-5°C, 10 seconds,
Solderability	Min 95% coverage	230+/-5°C, 5 seconds.
Insulation Resistance	Over 1000 MΩ	

#### General Note

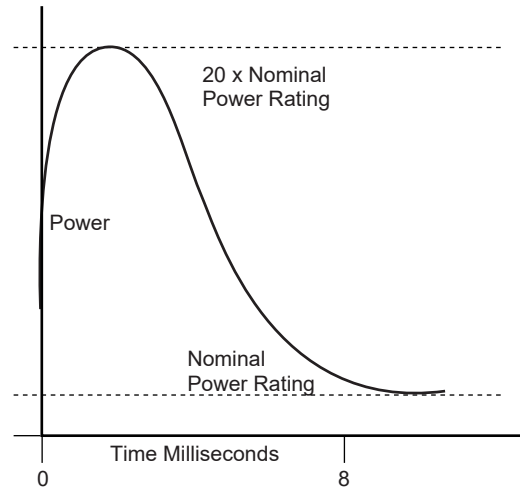
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BPC Series

### Derating Curve



### Overload Characteristic



### Ordering Information

Example: **BPC10103G** (BPC10, 10 kilohms ±2%, Pb-free)



1 Type	2 Value	3 Tolerance
BPC3	2 digits + multiplier	F = ±1%
BPC5	xRx for values <10 ohms	G = ±2%
BPC7	0Rxxx for values <1 ohm	J = ±5%
BPC10		K = ±10%

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