# **Resistors**

# **3W to 10W Planar High Power Resistors**

#### **BPC Series**

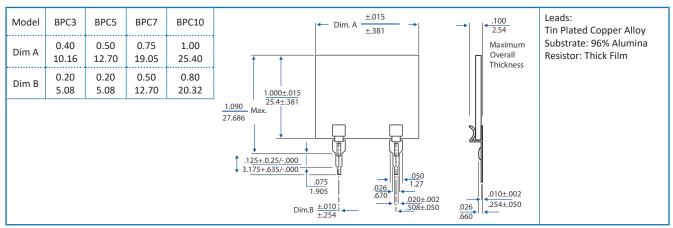
- Non-Inductive planar package
- High power density.
- Thin package for high density PCB installation.
- Power dissipated above the board.

#### Applications

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



### Specification (Dimensions)



Notes:

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

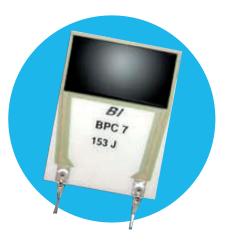
Items	Specification	Conditions
Power Rating	3W, 5W, 7.5W & 10W	@ ambient temp < 70°C
Operating Voltage Max	300Vac, 500VDC	
Resistance Range	0.1Ω to 200 KΩ	Extended resistance range available.
TCR	100 ppm/°C	For -55 to +155°C and above 1Ω.
Tolerance	10, optional +/-5% , 1%, 2%	
Operating Temp. Range	-55 - +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

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

BI Technologies IRC Welwyn



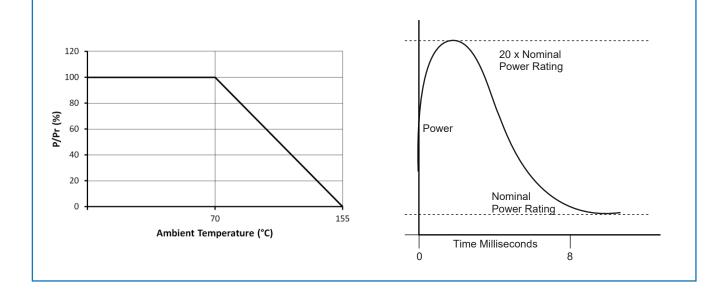


**Materials** 



### **Derating Curve**

**Overload Characteristic** 



### **Ordering Information**

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

B P C 1 0	1 0 3	G
1	2	3

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

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## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics: BPC5 563K BPC-10-202J