## **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

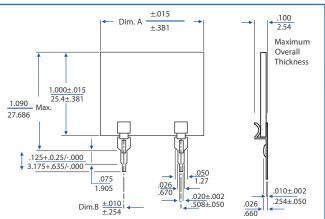




Rohs All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

## Specification (Dimensions)

Dim B 0.20 0.20 0.50 0.80	Model	врс3	BPC5	врс7	BPC10
Dim B	Dim A				1.00 25.40
3.00 3.00 12.70 20.02	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 $1\Omega$ .
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.

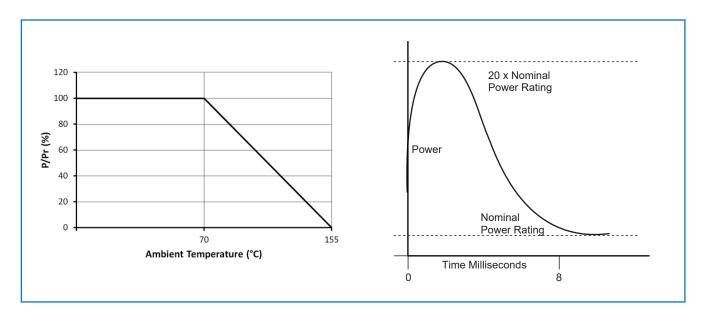
BI Technologies IRC Welwyn

**BPC Series** 



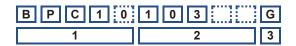
## **Derating Curve**

## **Overload Characteristic**



## **Ordering Information**

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



1	2	3
Туре	Value	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%

## **Mouser Electronics**

**Authorized Distributor** 

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

### **TT Electronics:**

<u>BPC10203J BPC5 563K BPC10200K BPC5563K BPC-10-202J BPC5473J BPC55R0J BPC10103J BPC102R0J BPC5101J BPC5500J BPC10101J BPC10200J BPC5200J BPC10100J BPC51R0J</u>