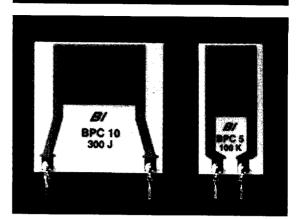
MODEL BPC SERIES

Non-Inductive Planar Thick Film Power Resistor Network

NEW PRODUCT



STANDARD TYPES

BPC 3	3 Watts, Nominal
BPC 5	5 Watts, Nominal
BPC 7	7.5 Watts, Nominal
BPC 10	10 Watts, Nominal

ELECTRICAL

Resistance Range, Ohms	BPC 3, BPC 5, BPC 7:1 to 200K, BPC 10: 3 to 200K					
Standard Tolerances	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$ (<100hms = $\pm 2\%$, $\pm 5\%$, $\pm 10\%$)					
Operating Temperature Range	-55°C to +125°C					
Temperature Coefficient of Resistance, Maximum	±100ppm/°C					
Power Ratings, Watts	3W, 5W, 7.5W, 10W					
Operating Voltage, Maximum	300 V ac, 500V dc					
Peak Current	20 X Rated Current up to 8 ms ($\Delta R \pm 0.5\%$)					

ENVIRONMENTAL (PER MIL-R-83401)

Thermal Shock	ΔR 0.50%				
Terminal Strength	ΔR 0.25%				
Moisture Resistance	ΔR 0.25%				
Mechanical Shock	30G's . ΔR 0.25%				
Vibration	10G's, 10 to 500 Hz ΔR 0.25%				
Low Temperature Storage	ΔR 0.25%				
High Temperature Exposure	ΔR 0.25%				
Load Life, 1,000 Hours	ΔR 1.00%				
Resistance to Solder Heat	ΔR 0.25%				
Dielectric Withstanding Voltage, Minimun	5,000 Vdc				
Marking Permanency	MIL-STD-202, Method 215				
Lead Solderability	MIL-STD-202, Method 208				
Flammability	UL 94V-0 Rated				
Storage	-55°C to +155°C				
Considerations subject to above 111 - 1 - 1	00 0 10 1 100 0				

Specifications subject to change without notice.



0 02F ■ 1336610 0003516 991 ■ Model BPC Series

MECHANICAL

Solder Tinned Copper Alloy Lead Material 96% Alumina Substrate Material Ruthenium Oxide Resistor Material

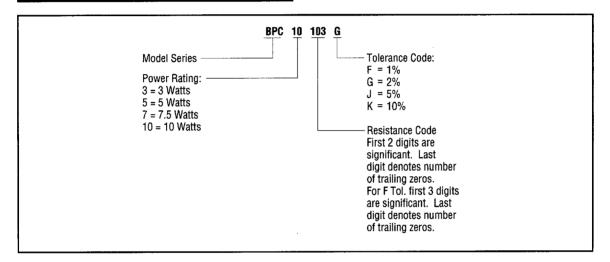
FEATURES

- High power density
- · Power is dissipated above circuit board
- · Low temperature solder
- Board layout flexibility

APPLICATIONS

- . In rush current limiters
- Power supply preloads
- · Snubber circuits
- UPS systems

ORDERING INFORMATION



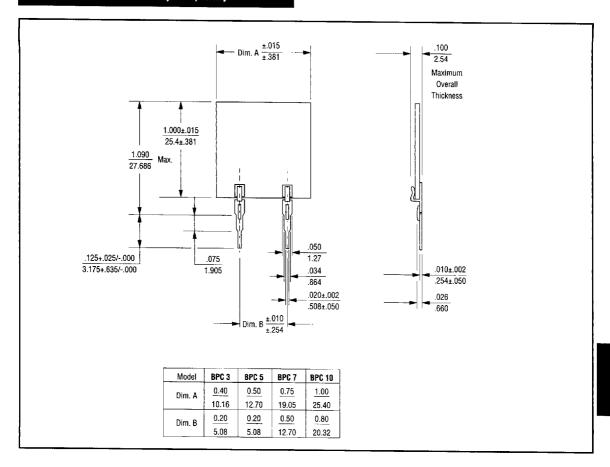
STANDARD RESISTANCE VALUES (OHMS)

Value	1	2	5	10	20	50	100	200	500	1K	2K	5K	10K	20K	50K	
Code	1R0	2B0	5R0	100	200	500	101	201	501	102	202	502	103	203	503	

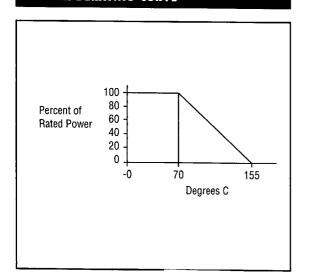
PACKAGING

Standard:

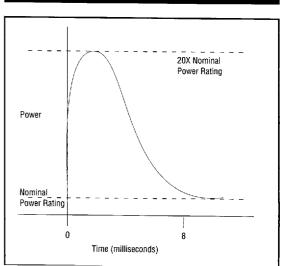
BPC 3, BPC 5, BPC 7 = 200 per box BPC 10 = 100 per box



POWER DERATING CURVE



OVERLOAD CHARACTERISTICS



Bi technologies

02F **= 1336610 0003518 76**4

Model BPC Series

Mouser Electronics

Authorized Distributor

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TT Electronics: