

MODEL

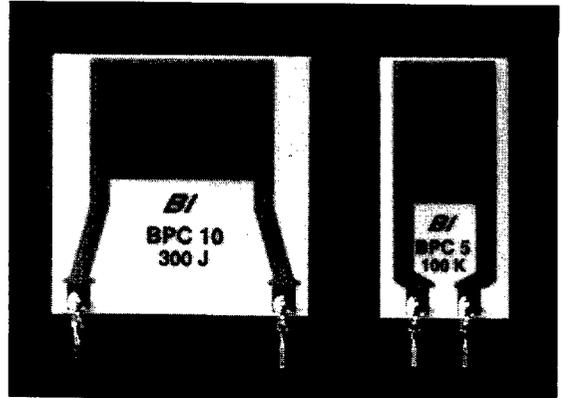
BPC SERIES

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	±1%, ±2%, ±5%, ±10% (<10Ohms = ±2%, ±5%, ±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 (ΔR ±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, Minimum	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

Specifications subject to change without notice.

MECHANICAL

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

FEATURES

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

APPLICATIONS

- Inrush current limiters
- Power supply preloads
- Snubber circuits
- UPS systems

ORDERING INFORMATION

BPC 10 103 G

Model Series

Power Rating:

3 = 3 Watts

5 = 5 Watts

7 = 7.5 Watts

10 = 10 Watts

Tolerance Code:

F = 1%

G = 2%

J = 5%

K = 10%

Resistance Code

First 2 digits are significant. Last digit denotes number of trailing zeros.

For F Tol. first 3 digits are significant. Last digit denotes number of trailing zeros.

STANDARD RESISTANCE VALUES (OHMS)

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

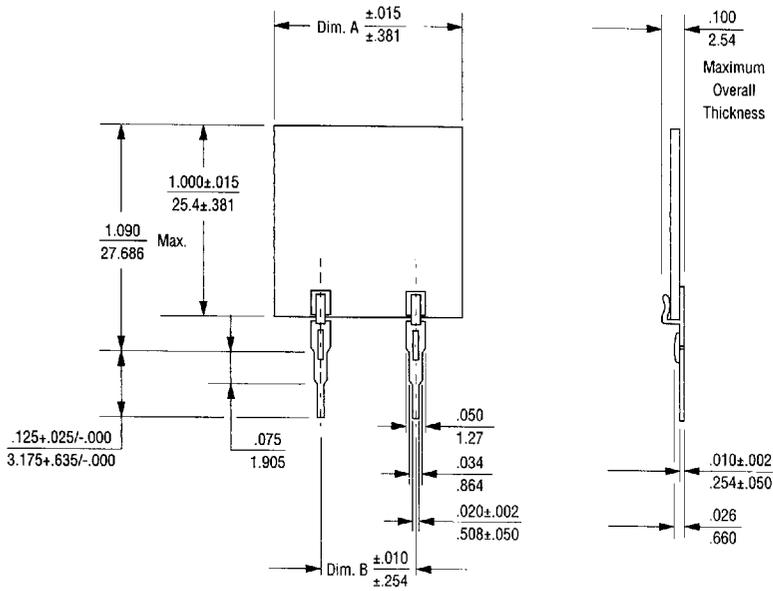
PACKAGING

Standard:

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

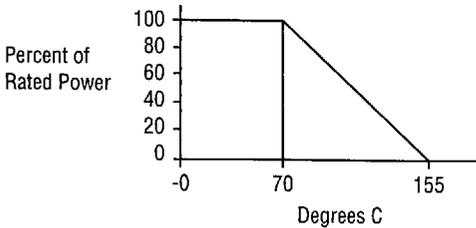
BPC 10 = 100 per box

OUTLINE DIMENSIONS (Inch/mm)

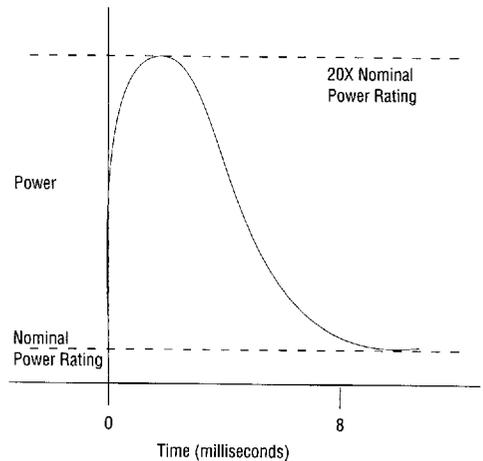


Model	BPC 3	BPC 5	BPC 7	BPC 10
Dim. A	0.40 10.16	0.50 12.70	0.75 19.05	1.00 25.40
Dim. B	0.20 5.08	0.20 5.08	0.50 12.70	0.80 20.32

POWER DERATING CURVE



OVERLOAD CHARACTERISTICS



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