

Noninductive Planar Low Cost, 20 Watt TO 220 Package Thick Film Resistor

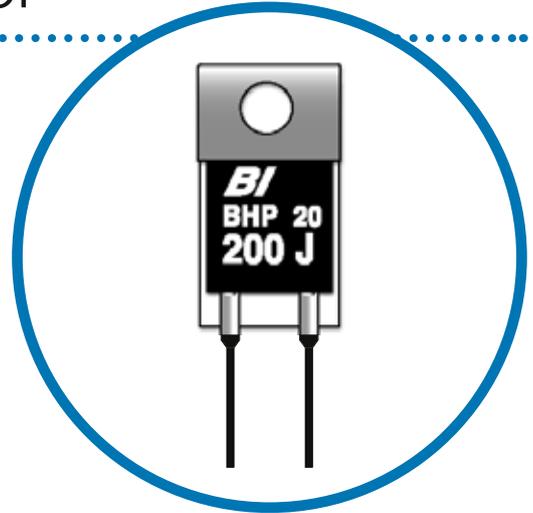
BHP Series

OBSOLETE

- Switching power supplies
- Snubber circuits
- Inrush current suppression
- Pre-loads

Benefits

- High power density
- Power is dissipated above circuit board
- Low temperature solder
- Nonflammable
- Non-inductive planar



Electrical

Resistance Range, Ohms	1 to 200K
Resistance Tolerances	±5% Optional: ±1%, ±2%
Operating Temperature Range	-55°C to +155°C
Temperature Coefficient of Resistance, Maximum	±100ppm/°C
Power Ratings, watts	20 watts (With 5.8°C/W External Heat Sink) 2 watts (In Air)
Operating Voltage, Maximum	250 Vdc
Peak Current	15 x rated current up to 8 ms ($\Delta R \pm 0.5\%$)
Dielectric Strength	750 V

Specifications subject to change without notice.

Mechanical

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

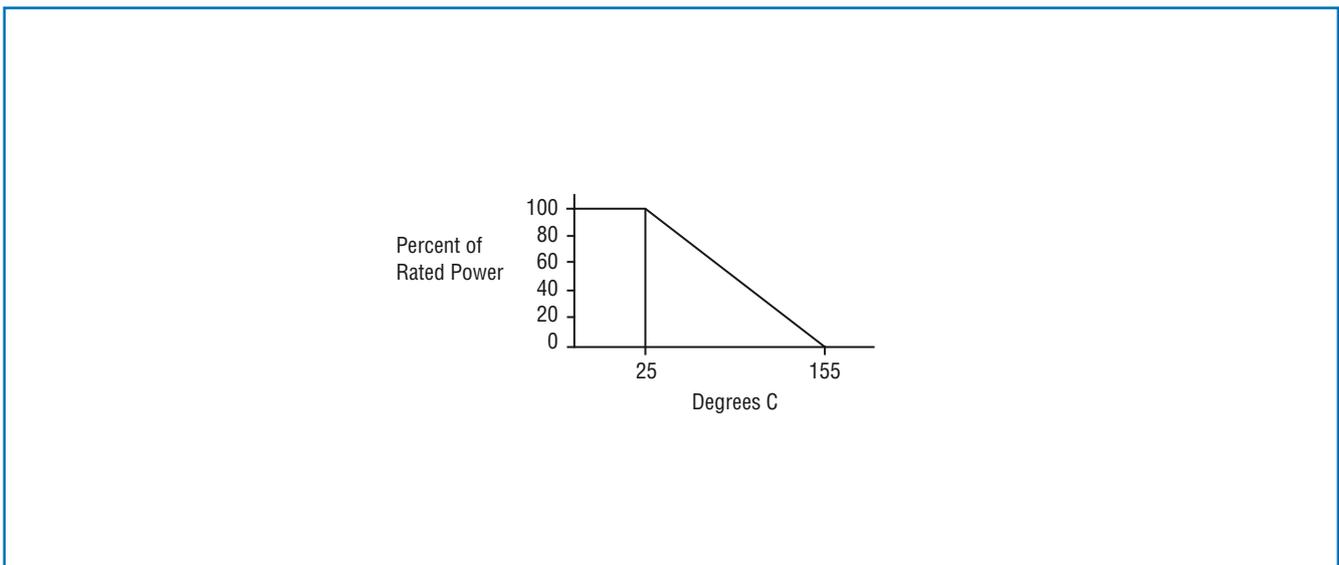
General Note

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.

Environmental (Per Mil-R-83401)

Thermal Shock		ΔR 0.50%
Terminal Strength		ΔR 0.25%
Short Time Overload	2 x rated power, 5 seconds	ΔR 0.50%
Moisture Resistance		ΔR 0.50%
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 2.00%
Resistance to Solder Heat		ΔR 0.25%
Dielectric Withstanding Voltage, Minimum		1,000 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

Power Derating Curve



Standard Resistance Values (Ohms)

Packaging

Value	1	2	5	10	20	50	100	200	500	1K	2K	5K	10K	Standard: 50 per tray
Code	1R0	2R0	5R0	100	200	500	101	201	501	102	202	502	103	

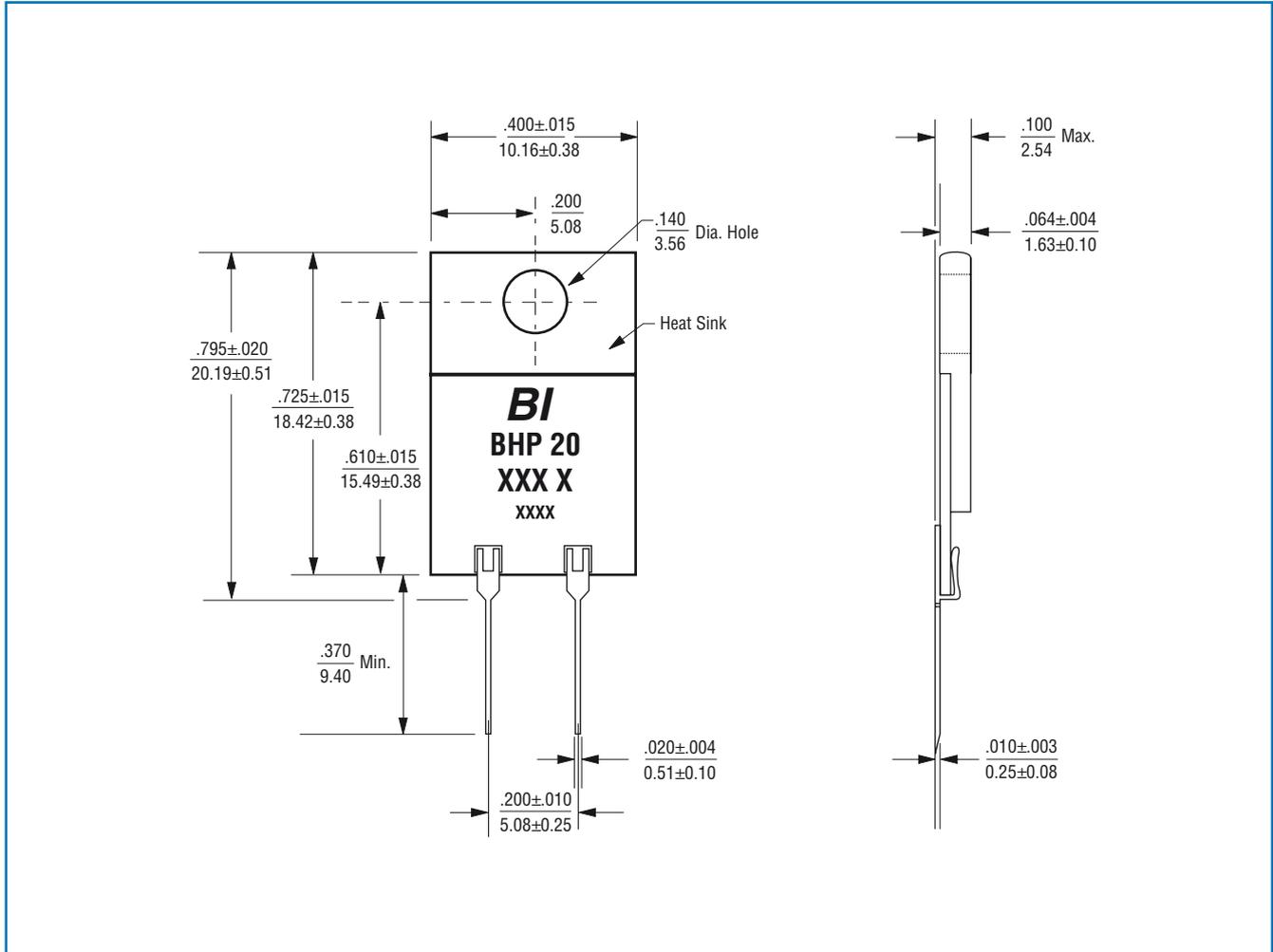
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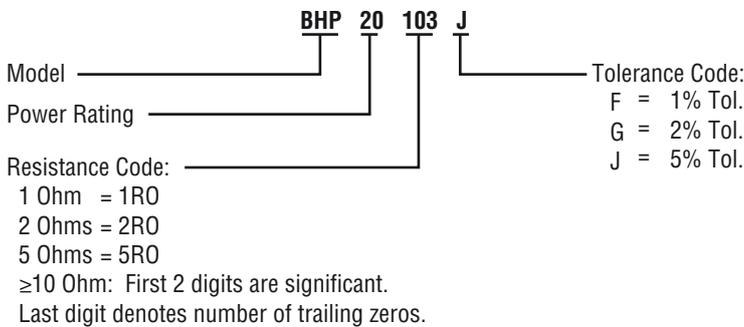


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Outline Dimensions (Inch/mm)



Ordering Information



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