

MODEL BHPR SERIES

BHPR Series

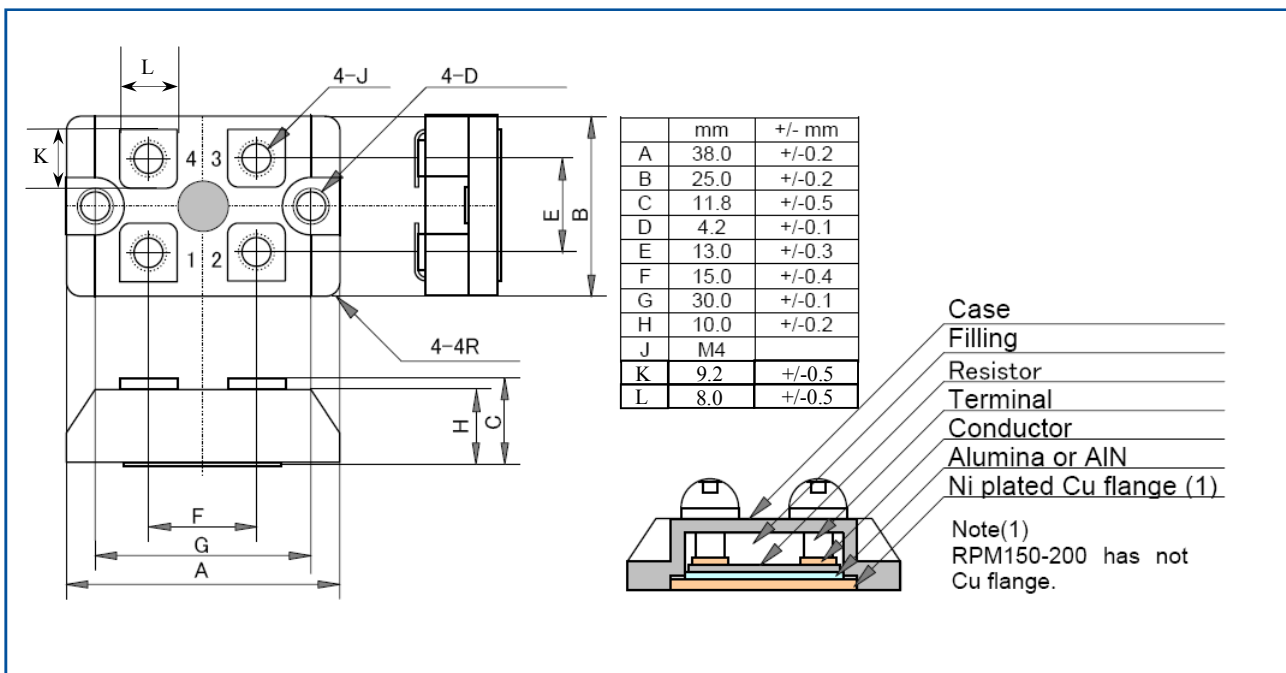
- Non-Inductive.
- Rated upto 600W depending on resistor configuration.
- Small TO-227 package, very low thermal resistance.
- Superior vibration durability, with M4 screw terminals.
- RoHS Compliant.



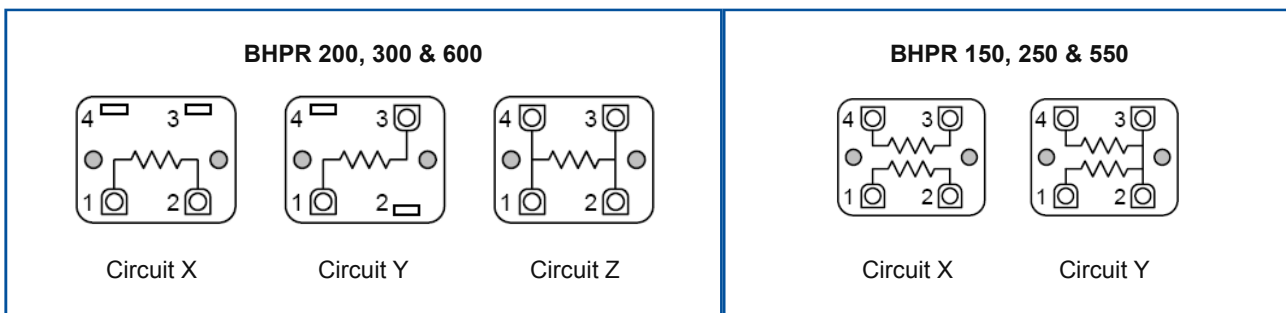
APPLICATIONS

- High power snubber resistors in power supplies.
- High frequency and pulse handling circuits.
- Pulse generator load resistors.
- High power crossover circuits in audio speaker systems.

DIMENSIONS



SCHEMATICS



General Note

BI Technologies reserves the right to make changes in product specification without notice or liability

© BI Technologies Limited • Glenrothes, Fife KY7 4NX, UK

Telephone: +44 (0) 1592 662200 • Facsimile: +44 (0) 1592 662299 • Website: www.bitechnologies.com • Email: sales@bitechnologies.co.uk

MODEL BHPR SERIES

SPECIFICATION

Specification Items	BHPR 150	BHPR 200	Test Conditions
Power Rating	150 Watts	200 Watts	With Heatsink, 0.9°C / W.
Resistor Schematic	Dual	Single	
Resistance Range	0.1Ω - 1KΩ	0.1Ω - 1KΩ	
Nominal Resistance	Any	Any	Within range and tolerance
TCR	±100ppm/°C	±100ppm/°C	For -55 to +155°C
Tolerance	±1%, ±5%	±1%, ±5%	
Operation Temp. Range	-55 to +155°C	-55 to +155°C	
Max Applied Voltage	E = √P*R		
Withstanding Voltage	2500 VDC		60 Seconds
Load Life	ΔR ±(1.0% +0.05Ω)		25°C, 90 min On, 30 min Off, 1000 Hours
Humidity	ΔR ±(1.0% +0.05Ω)		70°C, 90 ~ 95%RH, DC 0.1W, 1000 Hours
Temperature Cycle	ΔR ±(1.0% +0.05Ω)		-55°C 30 min, +120°C 30 min, 20 cycles
Short Term Overload	ΔR ±(0.25% +0.05Ω)		Rated Power * 2.5, 2.5 seconds, with Heatsink
Soldering Heat	ΔR ±(0.25% +0.05Ω)		350°C ±5°C, 3 seconds
Insulation Resistance	Over 1000 MegΩ		Between Terminals and Flange.
Vibration	ΔR ±(0.25% +0.05Ω)		

Specification Items	BHPR 250	BHPR 300	Test Conditions
Power Rating	250 Watts	300 Watts	At Flange Temp -55 to +25°C
Resistor Schematic	Dual	Single	
Resistance Range	0.1Ω - 1KΩ	0.1Ω - 1KΩ	
Nominal Resistance	Any	Any	Within range and tolerance
TCR	±100ppm/°C	±100ppm/°C	For -55 to +155°C
Tolerance	±1%, ±5%	±1%, ±5%	
Operation Temp. Range	-55 to +155°C	-55 to +155°C	
Max Applied Voltage	E = √P*R		
Withstanding Voltage	2500 VDC		60 Seconds
Load Life	ΔR ±(1.0% +0.05Ω)		25°C, 90 min On, 30 min Off, 1000 Hours
Humidity	ΔR ±(1.0% +0.05Ω)		70°C, 90 ~ 95%RH, DC 0.1W, 1000 Hours
Temperature Cycle	ΔR ±(1.0% +0.05Ω)		-55°C 30 min, +120°C 30 min, 20 cycles
Short Term Overload	ΔR ±(0.25% +0.05Ω)		Rated Power * 2.5, 2.5 seconds, with Heatsink
Soldering Heat	ΔR ±(0.25% +0.05Ω)		350°C ±5°C, 3 seconds
Insulation Resistance	Over 1000 MegΩ		Between Terminals and Flange.
Vibration	ΔR ±(0.25% +0.05Ω)		

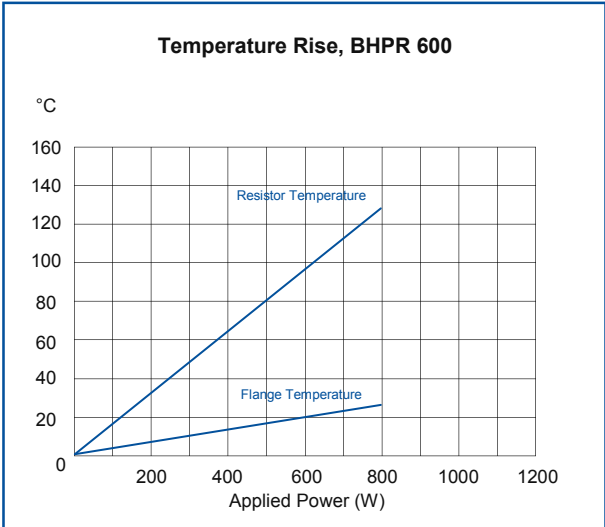
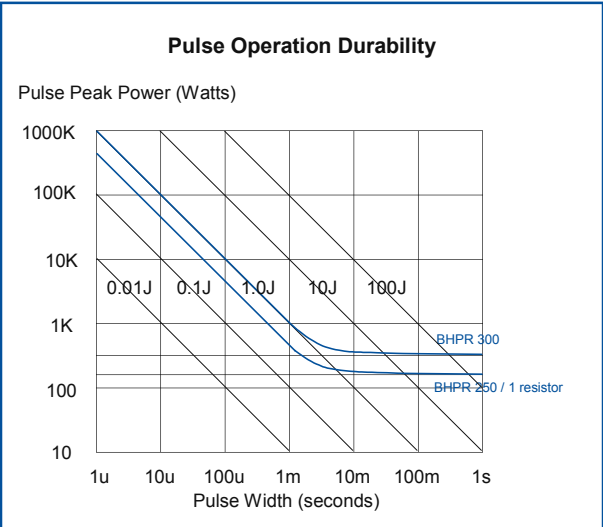
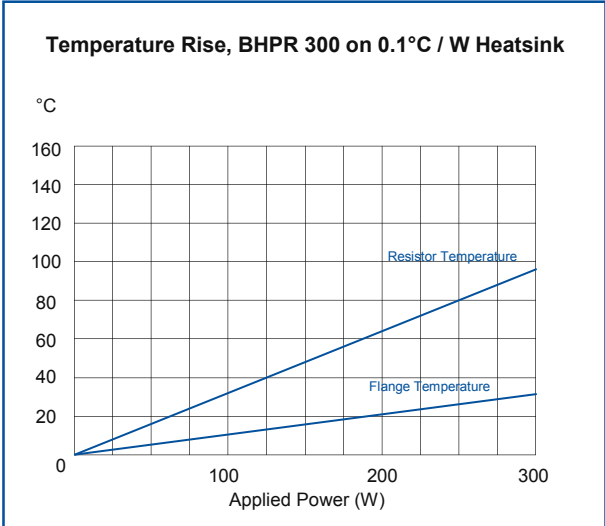
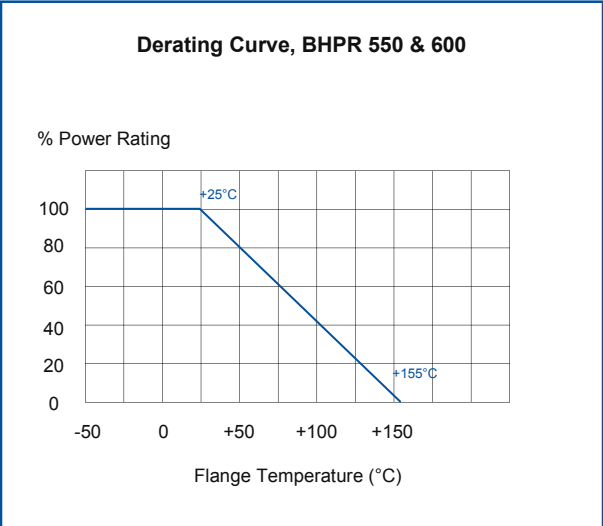
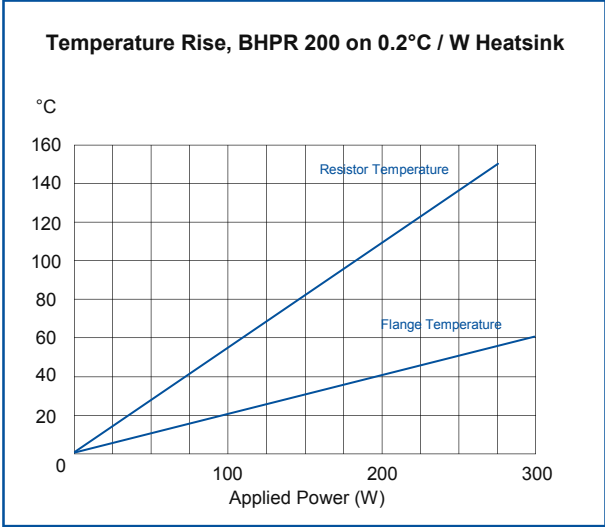
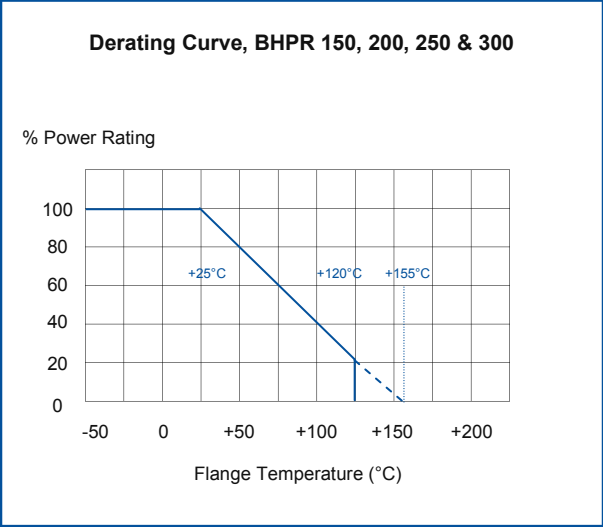
MODEL BHPR SERIES

SPECIFICATIONS (Cont.)

Specification Items	BHPR 550	BHPR 600	Test Conditions
Power Rating	600 Watts	600 Watts	At Flange Temp -55 to +25°C
Resistor Schematic	Dual	Single	
Resistance Range	50Ω - 1KΩ	50Ω - 1KΩ	Thin metal film resistor.
Nominal Resistance	Any	Any	Within range and tolerance.
TCR	±100ppm/°C	±100ppm/°C	For -55 to +155°C
Tolerance	±1%, ±5%	±1%, ±5%	
Operation Temp. Range	-55 to +155°C	-55 to +155°C	
Max Applied Voltage	E = √P*R		
Withstanding Voltage	2500 VDC		60 Seconds
Load Life	ΔR ±(1.0% +0.05Ω)		25°C, 90 min On, 30 min Off, 1000 Hours
Humidity	ΔR ±(1.0% +0.05Ω)		70°C, 90 ~ 95%RH, DC 0.1W, 1000 Hours
Temperature Cycle	ΔR ±(1.0% +0.05Ω)		-55°C 30 min, +120°C 30 min, 20 cycles
Short Term Overload	ΔR ±(0.25% +0.05Ω)		Rated Power * 2.5, 2.5 seconds, with Heatsink
Soldering Heat	ΔR ±(0.25% +0.05Ω)		350°C ±5°C, 3 seconds
Insulation Resistance	Over 1000 MegΩ		Between Terminals and Flange.
Vibration	ΔR ±(0.25% +0.05Ω)		

MODEL BHPR SERIES

PERFORMANCE



MODEL BHPR SERIES

ORDERING INFORMATION

