

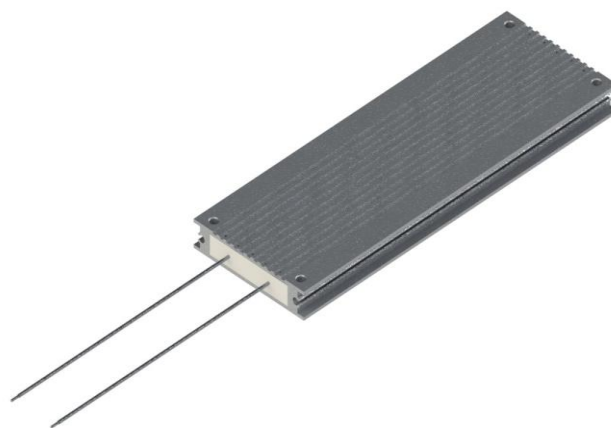


ALUMINIUM HOUSED RESISTOR



The PHCF series of wire wound resistors are made of 15mm thin aluminium section and they can be used in application where space is at a premium. They are designed to absorb high power overloads and are well suited for braking application. This high impulse absorption capability makes them well suited for use in power electronic circuits like frequency convertors, servo drives and robotic controls.

Forced air cooling can significantly improve the performance of the resistor. Multiple mounting options are available to help customers optimise usage and space.



TECHNICAL DATA

Resistor Type	PHCF
Tolerance	±5%, ±10%
Maximum Operating Voltage V_{AC} (f=50 Hz)	1000V; in accordance with UL508 specification reduced to 600V
Maximum Operating Voltage V_{DC}	1414V; in accordance with UL508 specification reduced to 848V
Insulation Resistance	≥100MΩ @ 1000 V_{DC}
Dielectric Strength (f=50Hz, 1 Min)	3500VAC for 1 Minute Between Terminal and Aluminium Body
TCR	≤ 200ppm/°C
Resistor Element	Wire Wound
Cable(L)	300 mm Standard; Insulated AWG16; 600V; 200°C
Resistor Body	Anodized Extruded Aluminium Profile
Ingress Protection Level	IP54
UL File Number	E514636

Type	P_n @ 40°C	Max SurfaceTemp (°C)**	R Value Range (Ω)	Pulse Load in 1.2s, each 120s @ 40°C. (W)*	Pulse Load in 7.2s, each 120s @ 40°C. (W)*	Pulse Load in 48s, each 120s @ 40°C. (W)*
PHCF80	75	220	1 – 4000	1650	615	165
PHCF110	100	231	1.5 – 5000	1900	975	245
PHCF166	160	245	3 – 8200	5700	1650	390
PHCF216	200	260	4 – 10K	8800	2200	500

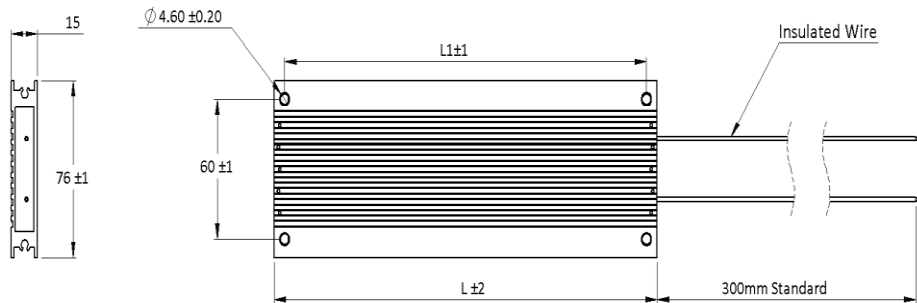
* The ratings in this table refer to resistor of 47Ω. These results are based on a 10000 cycles test.

** Typical temperature when resistor is mounted vertically and is not attached to a cooling heat sink.



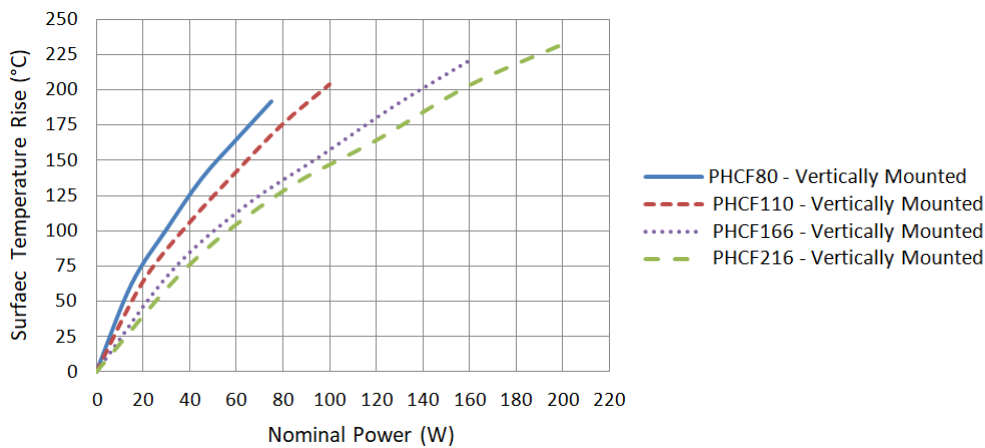
ALUMINIUM HOUSED RESISTOR

COMPONENT DRAWING:

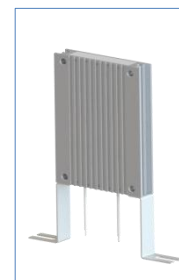
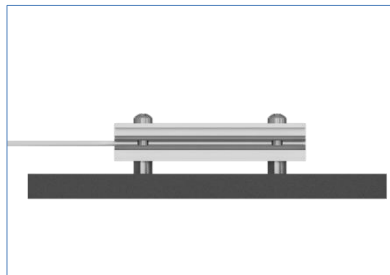
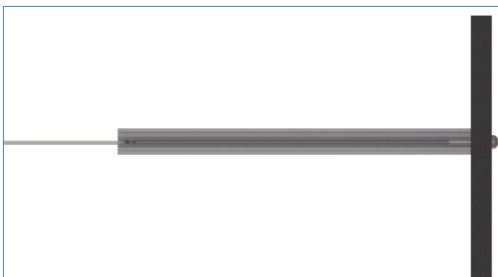
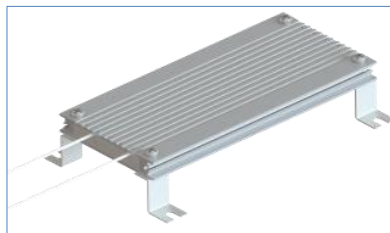
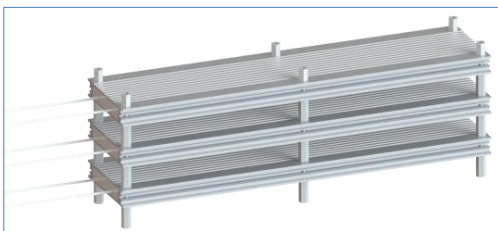


DIMENSIONAL SPECIFICATIONS		
TYPE	L in mm	L1 in mm
PHCF80	80	56
PHCF110	110	98
PHCF166	166	154
PHCF216	216	204

Power VS Surface Temperature Rise:



MOUNTING OPTIONS:





Precision Electronic Components Mfg. Co.

Premium Grade Components

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Committed to Quality
Since 1972

ALUMINIUM HOUSED RESISTOR

c us PHCF

ORDERING CODE:

PEC Type	Ohmic Value	Tolerance	Packing	Release	Termination	Cable Length
PHCF80 PHCF110 PHCF166 PHCF216	10Ω – 10R 1500Ω – 1K5 2000 Ω – 2K	5%-J 10%-K	Bulk - B	UL Certified - U Standard - X	Cable - C Special - M	Standard-X Custom-M- Length

FULL PART NUMBER: PHCF216-10R-JBUCX-300mm

Disclaimer

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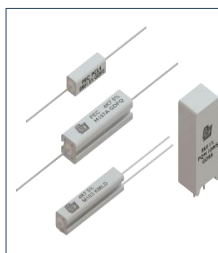
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Aluminium Heaters & Resistors



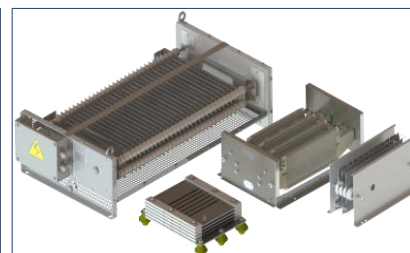
Tubular Power Resistor



Boat & Ceramic Case Resistors



Load Bank



Traction Resistors