ALUMINIUM HOUSED RESISTOR

PHCH/PHCV Series

The PHCH/PHCV Aluminium Housed resistors are compact high power resistors. They are protected against dust accumulation due to the all-round metal casing. They are designed to absorb large pulse and overloads and are well suited for applications like braking and precharge. This high impulse absorption capability makes them well suited for use in power electronic circuits like inverters, frequency convertors and robotic controls. Forced air cooling can significantly improve the performance of the resistor.

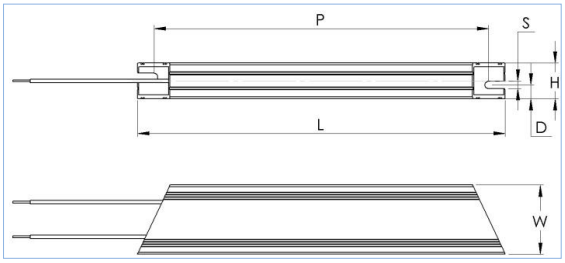
GENERAL SPECIFICATION		
Tolerance	±5%, ±10%	
Dielectric Strength	3500VAC for 1 Minute Between Terminal and Aluminium Body	
TCR	≤ 200ppm/^{o}C	
Resistor Element	Wire Wound	
Cable(L)	300 mm Standard; AWG 18 – AWG 10	
Cable Variants	We can supply specified different cables lengths with connectors or ferrule ends.	
Resistor Body	Anodized Extruded Aluminium Profile	
Mounting Case Style	Horizontal – H, Vertical - V	
Isolation Resistance	> 20 MΩ.	
Insulation Resistance	≥100MΩ @ 1000 V_{DC}	
Power Rating (@Ambient Temperature -40°C to +40°C)	100%	
Power De-rating	Linearly 100% @40°C to 25% @ 200°C	
Ambient Temperature Range	-40°C to +200°C	
Climatic Category	40/200/56	
Damp Heat Steady State (40°C, 90-95% RH,56 Days)	<2%	
Ingress Protection	IP54/IP65	
Suggested Resistor Mounting Orientation in Cabinet	Horizontal Orientation	Vertical Orientation (Cable end should be at the bottom)

*These overload factors are valid for a total cycle time of 120s

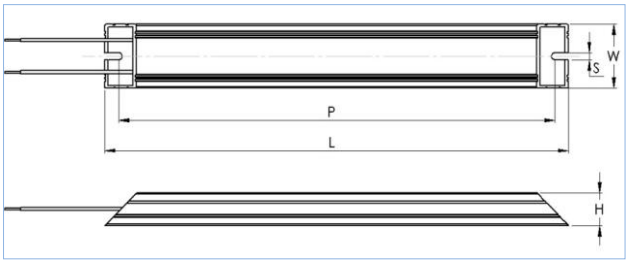
**The Power De-rating depends on the mounting orientation of the resistor in the system, irrespective of the case style.

COMPONENT DRAWING:

1. Vertical Mounting Style



2. Horizontal Mounting Style



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This publication provides indicative information. A contract for supply or purchase should be jointly agreed to separately.

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Precision Electronic Components Mfg. Co.

Premium Grade Components

For Original, Innovative and Cost-Effective Solutions to demanding Specifications

Committed to Quality
Since 1972

ALUMINIUM HOUSED RESISTOR — PHCH/PHCV Series

TECHNICAL DATA										
Type	Power (max.) @ 40°C, W	Max. Temp Rise at Rated Power, °C	Width (W) ± 1 (mm)	Height (H) ± 1 (mm)	Length (L) ± 2 (mm)	Pitch (P)± 2 (mm)	Slot Width (S)± 0.3 (mm)	Lateral Distance (D) ± 1 (mm)	Operating Voltage	Resistance Range (Ω)
PHC_165	200	280	60	31	165	146	5.3	11.5	$1000V_{AC}$	0.5-6800
PHC_215	300	290	60	31	215	196	5.3	11.5	$1000V_{AC}$	0.5-8200
PHC_265	400	305	60	31	265	246	5.3	11.5	$1000V_{AC}$	0.5-10000
PHC_335	500	325	60	31	335	316	5.3	11.5	$1000V_{AC}$	1-10000
PHC_405	600	320	60	31	405	386	5.3	11.5	$1000V_{AC}$	1-10000

ORDERING CODE:

PEC Type	Mounting Case Style	Size	Ohmic Value	Tolerance	Voltage	Termination	Cable Length	Approval
PHC	Horizontal – H Vertical – V	165 215 265 335 405	0.5 Ω » 0R5 10 Ω » 10R 1000 Ω » 1K0 10000 Ω » 10K	5% » J 10% » K	Standard » S	Cable » C Special » M	Standard length-X Custom length-M	U – UL Approved X - Standard

FULL PART NUMBER: PHCV335-6R-JSCMU

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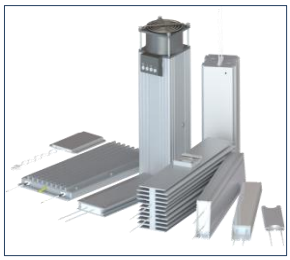
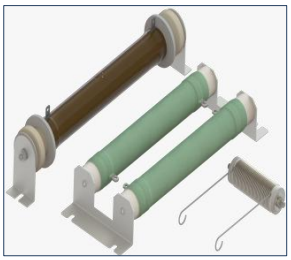
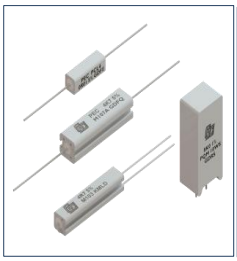
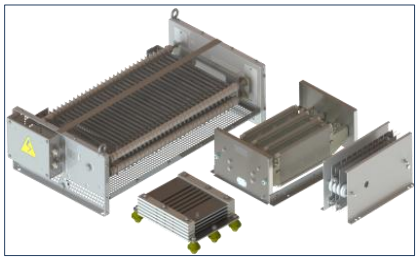

Aluminium Heaters & Resistors


Tubular Power Resistor


Boat & Ceramic Case Resistors

Load Bank


Traction Resistors

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