Premium Grade Components



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

ALUMINIUM HOUSED RESISTOR

The PHBR series of wire wound resistors are made of 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.



GENERAL SPECIFICATION					
Resistor Type	PHBR				
Tolerance	±5%, ±10%				
Maximum Operating Voltage V _{AC} (f=50 Hz)	690 VAC				
Maximum Operating Voltage V _{DC}	1100 VDC				
Insulation Resistance	>20 MΩ				
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; 600V; 200°C				
Resistor Body	Anodized Extruded Aluminium Profile				
Ingress Protection Level	IP54				
Mounting Orientation	Mounting feet, screws & washers are supplied in a kit form and user can fit it as per mounting requirements in their application				

TECHNICAL DATA						
Туре	Power @ 40°C		Paristanas Panga (O)	. ()	14 (
	In Watts	Max Temp Rise (°C)	Resistance Range (Ω)	L (mm)	L1 (mm)	
PHBR315	315	265	4.7 – 1000	175	75	
PHBR400	400	270	4.7 – 1000	225	125	
PHBR525	525	275	4.7 – 1000	295	195	
PHBR650	650	280	4.7 – 1000	365	265	
PHBR1000	1000	285	4.7 – 1000	425	325	
PHBR1230	1230	295	4.7 – 1000	525	425	
PHBR1475	1475	305	4.7 – 1000	625	525	
PHBR1700	1700	310	4.7 – 1000	725	625	

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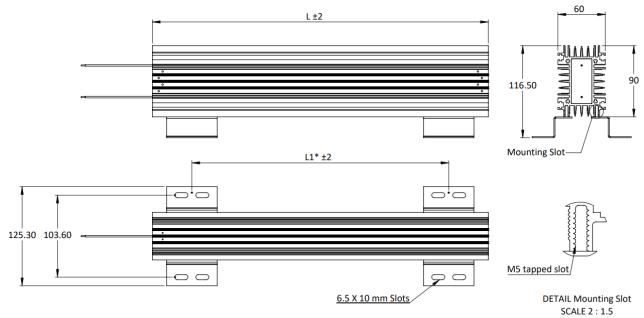
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ALUMINIUM HOUSED RESISTOR

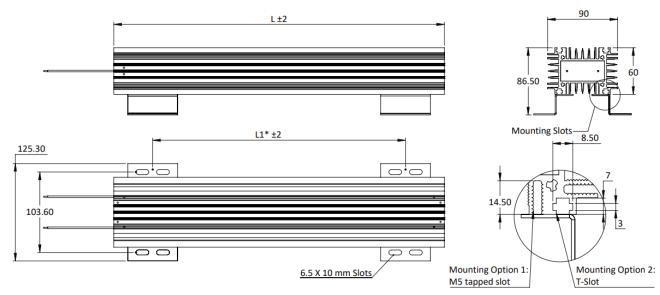
COMPONENT DRAWING:

1. Vertical Mounting (Standard)



^{*}This dimension can be adjusted, since threading is available along the length of the resisor.

2. Horizontal Mounting (Optional)



^{*} This dimension can be adjusted, since threading is available along the length of the resistor.

DETAIL Mounting Slots SCALE 1:1



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	Power Rating Resistance Value Pulse Load Rating W @ 40C Ambient, Cycle Time = 120					
Part Number	(In Watts)	(In Ω)	1 Sec	5 Sec	40 Sec	
PHBR315	315	4.7	12000	2700	900	
PHBR315	315	6.8	12000	2700	900	
PHBR315	315	10	12000	2700	900	
PHBR315	315	15	12000	2700	900	
PHBR315	315	22	10800	2600	900	
PHBR315	315	33	9500	2500	900	
PHBR315	315	47	9100	2400	900	
PHBR315	315	68	7500	2400	900	
PHBR315	315	100	7000	2400	900	
PHBR400 PHBR400	400 400	4.7 6.8	17500 17500	5200 5200	1150 1150	
PHBR400 PHBR400	400	10	17800	5200	1150	
PHBR400	400	15 22	17500	5200	1150	
PHBR400	400		17250	5200	1150	
PHBR400 PHBR400	400	33 47	16500 16500	5000	1150 1050	
PHBR400 PHBR400	400 400	68	12000	4200 3200	1050	
PHBR400 PHBR400		1	9500	3200	1000	
	400	100				
PHBR525	525	4.7	30300	8300	1600	
PHBR525	525 525	6.8	30500	8300	1600	
PHBR525 PHBR525	525	10 15	25500 25000	7400 7500	1600 1600	
PHBR525	525	22 33	25000	7600	1600	
PHBR525	525		25000	7500	1600	
PHBR525	525	47	25000 22500	7600	1600	
PHBR525 PHBR525	525 525	68 100	22500	6000 5600	1450 1450	
PHBR650 PHBR650	650	4.7 6.8	38400 38400	11300	2400 2400	
	650	+		11400		
PHBR650	650 650	10 15	33000 35000	11200 11300	2400 2400	
PHBR650 PHBR650	650	22	28000	10000	2400	
PHBR650	650	33	35000	10500	2400	
PHBR650 PHBR650	650 650	47 68	35000 32000	10500 10500	2400 2400	
PHBR650	650	100	28000	10500	2400	
PHBR1000	1000	1	40500	12900	2900	
		4.7		1		
PHBR1000 PHBR1000	1000 1000	6.8	40500 39000	12900 12900	2900 2900	
		15		+	2900	
PHBR1000 PHBR1000	1000 1000	22	37500 35000	12900 12900	2900	
PHBR1000	1000	33	36500	12000	2700	
PHBR1000		47	41000	12000	2700	
PHBR1000	1000 1000	68	39000	12000	2700	
PHBR1000	1000	100	35000	11000	2700	
PHBR1230	1230	4.7	55000	16100	3600	
PHBR1230 PHBR1230	1230	6.8	55000	16100	3600	
				15000	3600	
PHBR1230	1230	10	49100	1		
PHBR1230 PHBR1230	1230 1230	15 22	46000 47000	15000 15500	3600 3600	
PHBR1230 PHBR1230	1230	33	41000	15000	3600	
PHBR1230	1230	47	46000	15000	3600	
PHBR1230	1230	68	49100	15000	3600	
PHBR1230	1230	100	49100	15000	3600	



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Committed to Quality
Since 1972

Errors and omissions excepted (E & OE). Specifications are subject to change. Drafted/Revised Date: - 31/10/2023

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ALUMINIUM HOUSED RESISTOR

PULSE RATINGS FOR VERTICAL CONFIGURATION							
	Power Rating	Resistance Value	Pulse Load Ra	Pulse Load Rating W @ 40C Ambient, Cycle Time = 120 Sec			
Part Number	(In Watts)	(In Ω)	1 Sec	5 Sec	40 Sec		
PHBR1475	1475	4.7	70000	19600	4400		
PHBR1475	1475	6.8	70000	19600	4400		
PHBR1475	1475	10	60600	17500	4400		
PHBR1475	1475	15	55000	16500	4400		
PHBR1475	1475	22	60000	17500	4400		
PHBR1475	1475	33	49000	16000	4200		
PHBR1475	1475	47	49000	16000	4200		
PHBR1475	1475	68	60600	16500	4200		
PHBR1475	1475	100	60600	16500	4200		
PHBR1700	1700	4.7	105000	23400	5200		
PHBR1700	1700	6.8	105000	23400	5200		
PHBR1700	1700	10	75000	23400	5200		
PHBR1700	1700	15	74000	23400	5200		
PHBR1700	1700	22	72000	23400	5000		
PHBR1700	1700	33	63000	23400	5000		
PHBR1700	1700	47	68000	23400	5000		
PHBR1700	1700	68	68000	23400	5000		
PHBR1700	1700	100	65000	23400	5000		

ORDERING CODE:

PEC Type	Ohmic Value	Tolerance	Packing	Release	Termination	Cable Length	Mounting Hardware [#]
PHBR(xxxx)	$10\Omega - 10R$ $1500\Omega - 1K5$ $2000 \Omega - 2K$	5%-J 10%-K	Bulk - B	Standard-X	Cable - C Special - M	Standard-X Custom-M-Length	Mounting Feet - MH

^{*}mounting hardware consists of set of four mounting feet, which are supplied as a kit for assembly at site.

Example:

FULL PART NUMBER: PHBR650-6R8-JBXCX-MH

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ALUMINIUM HOUSED RESISTOR

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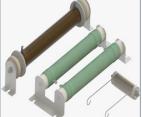
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Aluminium Heaters & Resistors



Tubular Power Resistor



Boat & Ceramic Case Resistors



Load Bank



Traction Resistors