

PHV SERIES

HIGH VOLTAGE RESISTORS

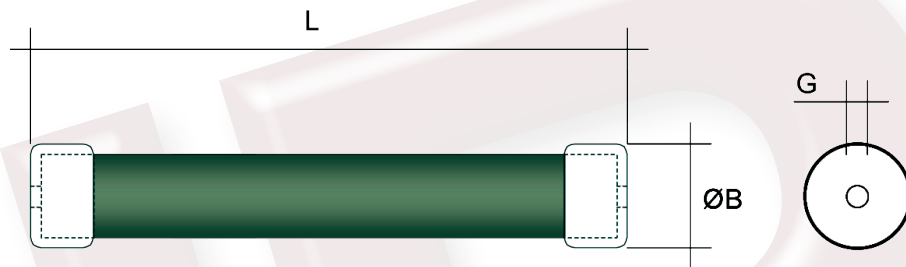
RoHS

FEATURES

High Voltage Power Resistors PHV Series combine proprietary non-inductive resistance system and design to achieve low temperature coefficient, low voltage coefficients, high stability, increased high operating voltages and high power ratings.



DIMENSIONS



TECHNICAL SPECIFICATIONS

Model	Wattage	Max operating voltage	Dimensions in millimeters ± 1.00		
			L	B	G
PHV30	30.00	25'000	90 ± 1	16.00	M5 - M6
PHV60	60.00	58'000	160 ± 1.5	27.00	M5 - M6
PHV90	90.00	82'000	210 ± 2	26.00	M5 - M6
PHV150	150.00	130'000	310 ± 3	27.00	M5 - M6
PHV150	150.00	55'000	154 ± 3	60.00	M5 - M6
PHV200	200.00	82'000	210 ± 3	42.00	M8

* DC or AC peak in dry air

NR *new resistance*
precision without limits

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CHARACTERISTICS

Resistance Values	from 1K Ω to as high as 100G Ω on all models		
Tolerances	0.5%, 1%, 2%, 5%, 10%		
Temperature Coefficients*	25, 50 and 100 ppm/ $^{\circ}$ C		
Operating Temperature	-55 ... +225 $^{\circ}$ C	(extended temperature range to 350 $^{\circ}$ C available)	
Insulation Resistance	> 10'000 M Ω	500 Volt 25 $^{\circ}$ C 75% relative humidity	
Dielectric Strength	> 1'000 Volt	25 $^{\circ}$ C 75% relative humidity	
Thermal Shock	Δ R/R < 0.1% typ., 0.20% max.	MIL Std. 202, method 107 Cond. C IEC 68 - 2 - 14	
Overload	Δ R/R < 0.1% typ., 0.25% max.	1,5 x Pnom, 5 sec (do not exceed max. voltage)	
Moisture Resistance	Δ R/R < 0.1% typ., 0.25% max.	MIL Std. 202, method 106	IEC 68 - 2 - 3
Load Life	Δ R/R < 0.1% typ., 0.50% max.	1000 hours at rated power	IEC 115 - 1
Encapsulation	Silicone Conformal Coating	Core Material	Al ₂ O ₃ (96%)
Lead Material	Brass Caps (lug terminations avail.)	Resistor Material	Ruthenium Oxide

* Temperature Coefficient referenced to 25 $^{\circ}$ C, Δ R taken at +125 $^{\circ}$ C

DERATING CURVE

