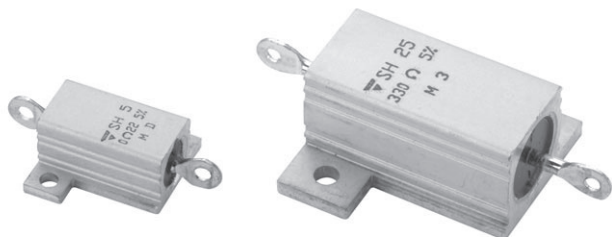


Heatsink Encased Wirewound Power Resistors Industrial Applications



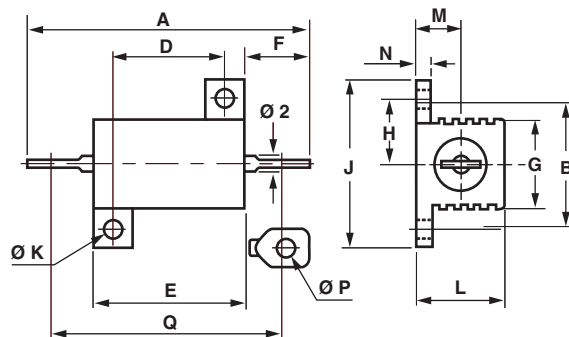
FEATURES

- ≤ 50 W at + 25 °C
- High power characteristics
- Utilize heatsink capability
- Good mechanical protection
- Industrialized product
- Compliant to RoHS directive 2002/95/EC



Built for high power dissipation applications, these components have very good overall characteristics for industrial use under harsh environmental conditions.

DIMENSIONS in millimeters



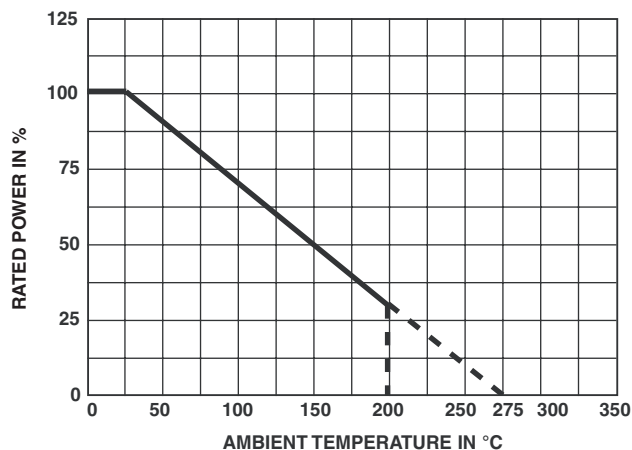
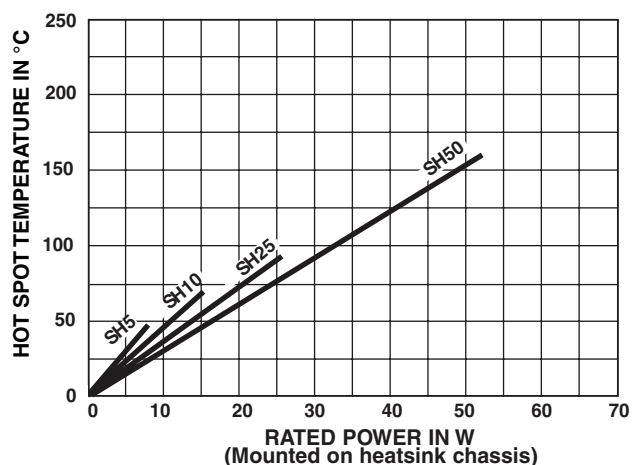
SERIES	A	B ± 0.2	D ± 0.2	E ± 0.5	F	G ± 1	H ± 0.7	J ± 0.5	Ø K ± 0.1	L MAX.	M ± 0.5	N ± 0.3	Ø P MIN.	Q	WEIGHT g
SH5	28.5 ± 1.5	12.5	11.3	16.3	6.8 ± 1.5	8.5	6.2	16.4	2.4	8.9	4.3	1.6	2.1	25.3 ± 1.5	3
SH10	35.5 ± 1.5	15.9	14	19	7.9 ± 1.5	11	7.9	20.6	2.4	11	5.6	2	2.1	30.6 ± 1.5	8.8
SH25	49 ± 1.3	19.8	18.3	28	11.1 ± 1.5	14	9.9	27.5	3.2	15	8	2.4	2.1	44.6 ± 1.3	16.5
SH50	70.2 ± 1.4	21.4	39.7	50	11 ± 1.2	15.5	10.7	29.4	3.2	15	8	2.4	2.1	66.5 ± 1.4	30.8

ELECTRICAL SPECIFICATIONS

VISHAY SFERNICE SERIES			SH5	SH10	SH25	SH50
Power Rating Chassis mounted resistors: 413 cm ² for SH5 and SH10, 536 cm ² for SH25 and SH50	at	25 °C	10 W	12.5 W	25 W	50 W
		70 °C	8 W	10 W	20 W	40 W
Unmounted resistors	at	25 °C	4 W	6 W	9 W	12 W
		70 °C	3.2 W	4.8 W	7.2 W	9.6 W
Ohmic Value			0.1 Ω to 3.3 kΩ	0.1 Ω to 15 kΩ	0.1 Ω to 33 kΩ	0.1 Ω to 51 kΩ
Tolerance			± 5 %			
Rated Maximum Voltage			160 V	250 V	550 V	1285 V
Dielectric Strength V _{RMS}			800 V	1000 V	2000 V	2000 V
Insulation Resistance			> 10 ⁴ MΩ		> 3 x 10 ⁴ MΩ	
Temperature Coefficient			± 50 ppm/°C		R _n > 50 Ω	
Climatic Category			55/200/56			
Temperature Limits			- 55 °C		+ 200 °C	

PERFORMANCE

TESTS	CONDITIONS	TYPICAL DRIFTS
Momentary Overload	$5 P_n/5$ s	± 0.5 % max. + 0.05 Ω
Climatic Sequence	- 55 °C + 200 °C 5 cycles	± 1 % max. + 0.05 Ω
Load Life	Nominal power P_n 1000 h at 25 °C	± 1 % max. + 0.05 Ω

POWER RATING**TEMPERATURE RISE****MARKING**

Vishay Sfernice trademark, model, style, nominal resistance (in Ω), tolerance (in %), manufacturing date.

PACKAGING

Bag of 10 units

ORDERING INFORMATION

SH	25	10 k Ω	5 %	BA10	e1
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE

SAP PART NUMBERING GUIDELINES

SH	25	10001	J	S03
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING



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