

Heatsink Encased Wirewound Power Resistors Industrial Applications



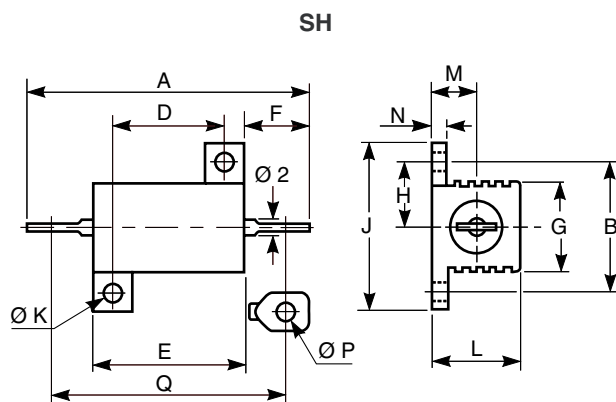
FEATURES

- ≤ 50 Watt at $+ 25\text{ }^{\circ}\text{C}$
- High power characteristics
- Utilize heatsink capability
- Good mechanical protection
- Industrialized product



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

DIMENSIONS in millimeters



MODEL AND STYLE	SH5	SH10	SH25	SH50
A	28.5 ± 1.5	35 ± 1.5	49 ± 1.3	70.2 ± 1.4
B ± 0.2	12.5	15.9	19.8	21.4
D ± 0.2	11.3	14	18.3	39.7
E ± 0.5	16.3	19	28	50
F	6.8 ± 1.5	7.9 ± 1.5	11.1 ± 1.5	11 ± 1.2
G ± 1	8.5	11	14	15.5
H ± 0.7	6.2	7.9	9.9A	10.7
J ± 0.5	16.4	20.6	27.5	29.4
$\varnothing K \pm 0.1$	2.4	2.4	3.2	3.2
L max.	8.9	11	15	15
M ± 0.5	4.3	5.6	8	8
N ± 0.3	1.6	2	2.4	2.4
$\varnothing P$ min.	2.1	2.1	2.1	2.1
Q	25.3 ± 1.5	30.6 ± 1.5	44.6 ± 1.3	66.5 ± 1.4
Weight in g	3	8.8	16.5	30.8

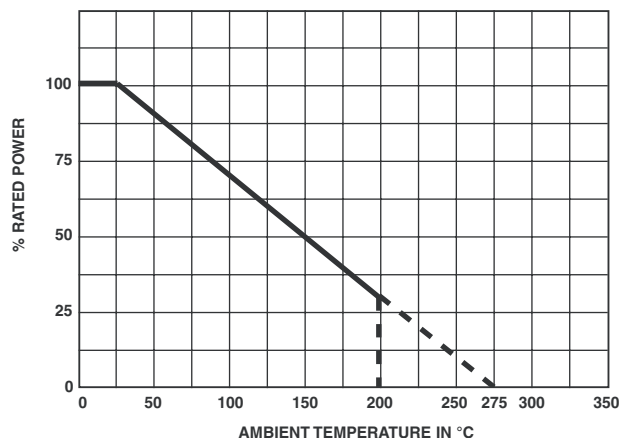
ELECTRICAL SPECIFICATIONS

VISHAY SFERNICE MODEL AND STYLE				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 3.3 kΩ	0.1 Ω 15 kΩ	0.1 Ω 33 kΩ	0.1 Ω 51 kΩ
Tolerance				± 5 %			
Rated Maximum Voltage				160 V	250 V	550 V	1285 V
Dielectric Strength VRMS				800 V	1000 V	2000 V	2000 V
Insulation Resistance				> 10 ⁴ MΩ		> 3.10 ⁴ MΩ	
Temperature Coefficient				± 50 ppm/°C Rn > 50 Ω			
Climatic Category				55/200/56			
Temperature Limits				- 55 °C + 200 °C			

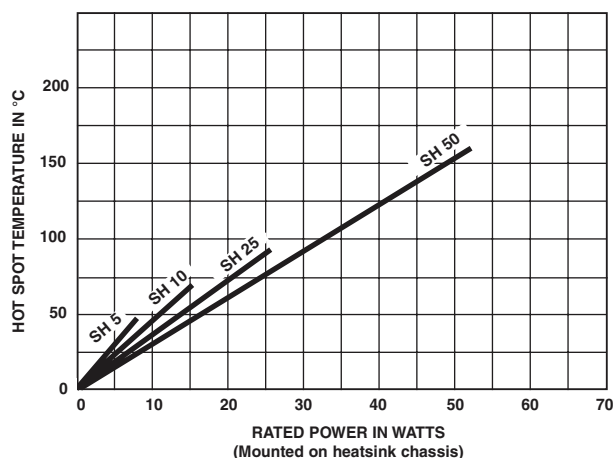


PERFORMANCE		
TESTS	CONDITIONS	TYPICAL DRIFTS
Momentary Overload	5 Pn/5 s	± 0.5 % max. + 0.05 Ω
Climatic Sequence	- 55 °C + 200 °C 5 cycles	± 1 % max. + 0.05 Ω
Load Life	Nominal power Pn 1000 h at 25 °C	± 1 % max. + 0.05 Ω

POWER RATING CHART



TEMPERATURE RISE



PACKAGING

Bag of 10 units

MARKING

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

ORDERING INFORMATION					
SH	25	10 kΩ	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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