

## Heatsink Encased Wirewound Power Resistors Industrial Applications



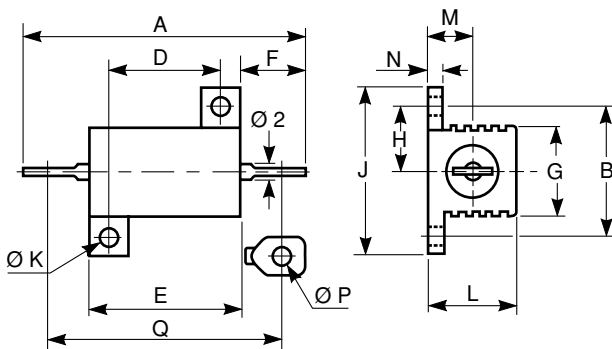
### FEATURES

- ≤ 50 Watt at + 25°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

SH



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	5.9	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
Ø K ± 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
Ø 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

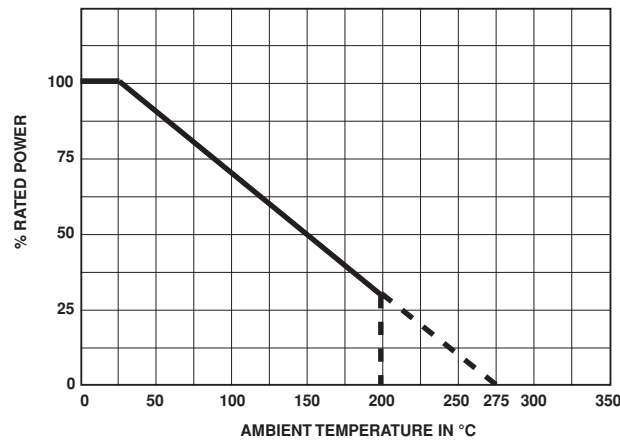
### ELECTRICAL SPECIFICATIONS

VISHAY SFERNICE MODEL AND STYLE		SH5	SH10	SH25	SH50	
Power Rating	Chassis mounted resistors: 413cm <sup>2</sup> for SH5 and SH10 536cm <sup>2</sup> for SH25 and SH50	at 25°C	10W	12.5W	25W	50W
		at 70°C	8W	10W	20W	40W
Power Rating	Unmounted resistors	at 25°C	4W	6W	9W	12W
		at 70°C	3.2W	4.8W	7.2W	9.6W
Ohmic Value		0.1Ω 3.3kΩ	0.1Ω 15kΩ	0.1Ω 33kΩ	0.1Ω 51kΩ	
Tolerance		± 5%				
Rated Maximum Voltage		160V	250V	550V	1285V	
Dielectric Strength VRMS		800V	1000V	2000V	2000V	
Insulation Resistance		> 10 <sup>4</sup> MΩ		> 3.10 <sup>4</sup> MΩ		
Temperature Coefficient		± 50ppm/°C R <sub>n</sub> > 50Ω				
Climatic Category		55/200/56				
Temperature Limits		- 55°C + 200°C				

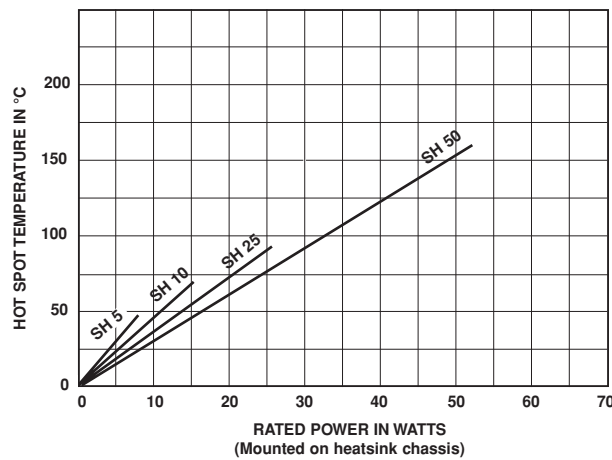


PERFORMANCE		
TESTS	CONDITIONS	TYPICAL DRIFTS
Momentary Overload	5Pn/5s	± 0.5% max. + 0.05Ω
Climatic Sequence	- 55°C + 200°C 5 cycles	± 1% max. + 0.05Ω
Load Life	Nominal power Pn 1000h at 25°C	± 1% max. + 0.05Ω

**POWER RATING CHART**



**TEMPERATURE RISE**



**MARKING**

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

ORDERING INFORMATION			
SH	25	10kΩ	± 5%
MODEL	STYLE	OHMIC VALUE	TOLERANCE