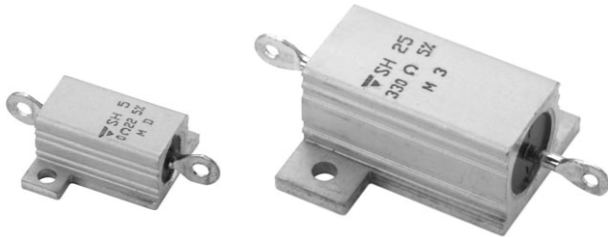


Heatsink Encased Wirewound Power Resistors Industrial Applications



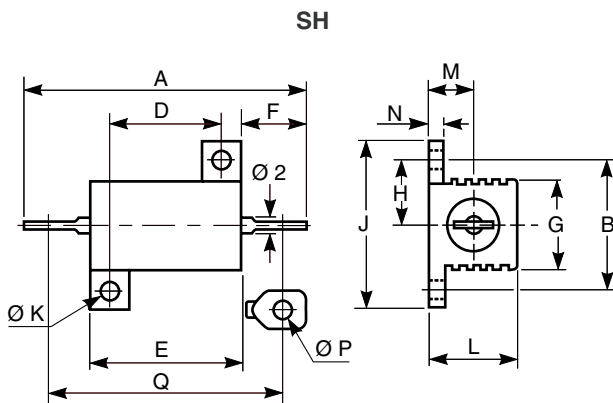
FEATURES

- ≤ 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



| 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 |
| 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 |

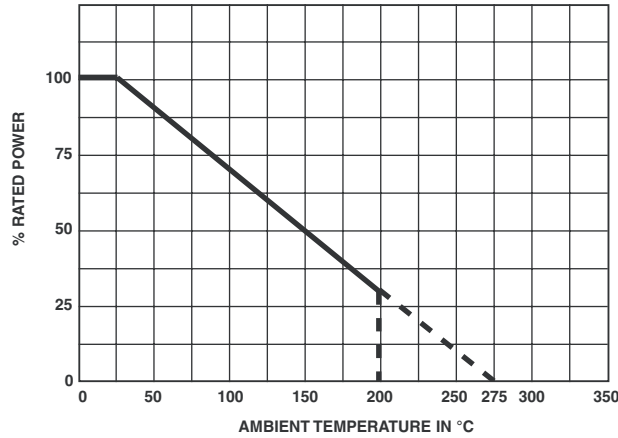
ELECTRICAL SPECIFICATIONS

| VISHAY SFERNICE MODEL AND STYLE | | SH5 | SH10 | SH25 | SH50 | |
|---------------------------------|--|----------------------|----------------|------------------------|----------------|-------|
| Power Rating | Chassis mounted resistors: 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 |
| | | at 70 °C | 8 W | 10 W | 20 W | 40 W |
| | Unmounted resistors | at 25 °C | 4 W | 6 W | 9 W | 12 W |
| | | at 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 | | |

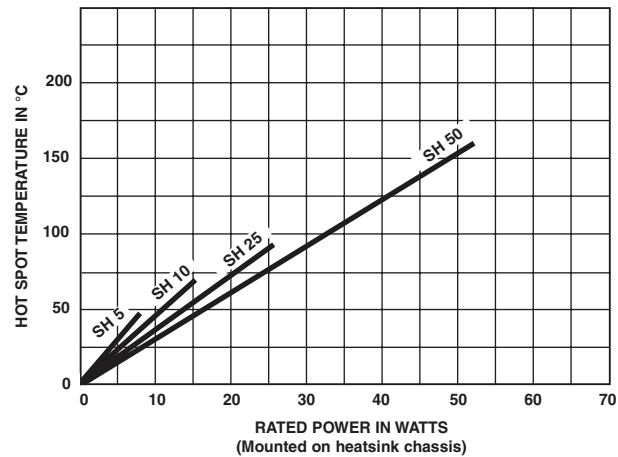


| PERFORMANCE | | |
|--------------------|-------------------------------------|-----------------------|
| TESTS | CONDITIONS | TYPICAL DRIFTS |
| Momentary Overload | 5 Pn/5 s | ± 0.5 % max. + 0.05 Ω |
| Climatic Sequence | - 55 °C + 200 °C 5 cycles | ± 1 % max. + 0.05 Ω |
| Load Life | Nominal power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