

Type HS Series

Key Features

- Established product with proven reliability
 - Leading the way with over 50 years of design and manufacturing experience
- 5 Watts to 300 Watts (500 Watt and 1000 Watt versions available)
 - Largest range on the market
- Versatile product
 Bench mark in every industry
- Custom designs
 - Windings, terminations, mountings - We have a solution for your application
- Low resistance, low inductance and higher voltage versions available
 Specialising the
 - standard

Applications

- Braking Resistor
- Balancing Resistor
- Capacitor Charging & Discharging
- Crowbar
- Filter
- Electrical Machinery general use
- Available through Distribution



TE Connectivity are the leading European supplier of standard and custom designed aluminium housed resistors for general-purpose use, power supplies, power generation and the traction industry. The HS is a range of extremely stable, high quality wire wound resistors capable of dissipating high power in a limited space with relatively low surface temperature. The power is rapidly dissipated as heat through the aluminium housing to a specified heatsink.

The resistors are made from quality materials for optimum reliability and stability. TE can test resistors to conform to relevant international, MIL or customer specifications.

TE are happy to advise on the use of resistors for pulse applications and to supply information for high voltage use and low-ohmic value, alternative mountings and termination type.

Characteristics - Electrical HSA & HSC - 5 Watts to 75 Watts

| | HSA5 | HSA10 | HSA25 | HSA50 | HSC75 |
|--|--------|--------|--------|--------|--------|
| Dissipation @ 25°C with Heatsink (Watts): | 10 | 16 | 25 | 50 | 75 |
| Without Heatsink: | 5.5 | 8 | 12.5 | 20 | 45 |
| Ohmic Value Min (Ohms): | R01 | R01 | R01 | R01 | R05 |
| Max: | 10K | 15K | 36K | 100K | 50K |
| Max. Working Voltage (DC or ACrms) Volts: | 160 | 265 | 550 | 1250 | 1400 |
| Dielectric Strength (AC Peak) Volts: | 1400 | 1400 | 2500 | 2500 | 5000 |
| Stability (% resistance change, 1000 hours) (%): | 1 | 1 | 1 | 1 | 2 |
| Standard Heatsink - Area (mm ²): | 41500 | 41500 | 53500 | 53500 | 99500 |
| Thickness (mm): | 1 | 1 | 1 | 1 | 3 |
| Number of Mounting Holes: | 2 hole | 2 hole | 2 hole | 2 hole | 4 hole |

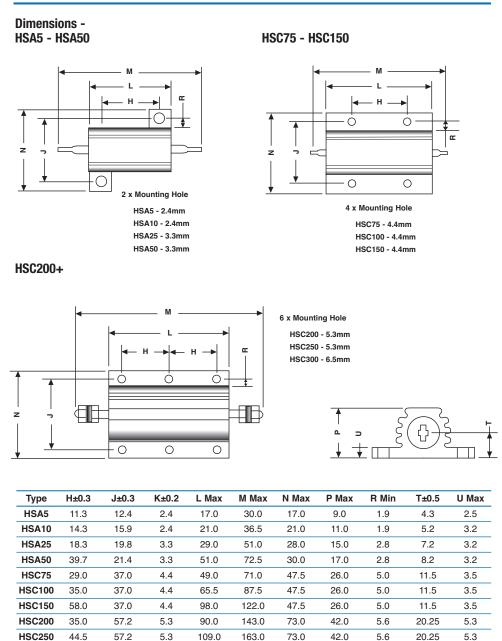
Characteristics - Electrical HSC - 100 Watts to 300 Watts

| | HSC100 | HSC150 | HSC200 | HSC250 | HSC300 |
|--|--------|--------|--------|--------|--------|
| Dissipation @ 25°C with Heatsink (Watts): | 100 | 150 | 200 | 250 | 300 |
| Without Heatsink: | 50 | 55 | 50 | 60 | 75 |
| Ohmic Value Min (Ohms): | R05 | R10 | R10 | R10 | R10 |
| Max: | 100K | 100K | 50K | 68K | 82K |
| Max. Working Voltage (DC or ACrms) Volts: | 1900 | 2500 | 1900 | 2200 | 2500 |
| Dielectric Strength (AC Peak) Volts: | 5000 | 5000 | 5600 | 5600 | 5600 |
| Stability (% resistance change, 1000 hours) (%): | 2 | 2 | 3 | 3 | 3 |
| Standard Heatsink - Area (mm ²): | 99500 | 99500 | 375000 | 476500 | 578000 |
| Thickness (mm): | 3 | 3 | 3 | 3 | 3 |
| Number of Mounting Holes: | 4 hole | 4 hole | 6 hole | 6 hole | 6 hole |

Dimensions are shown for reference purposes only. Specifications subject to change. For email, phone or live chat, go to: $\ensuremath{\textbf{te.com/help}}$



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How to Order

52.0

59.0

6.5

128.0

HSC300

| HS | A | 50 | 680R | J |
|--|---|---|---|---|
| Common Part | Mounting Style | Power Rating | Resistance Value | Tolerance |
| HS - Standard NHS - Low Inductance | A - Single Opposing mounting Feet B - Flange One Side | 10 Watt = HSA5 16 Watt = HSA10 25 Watt = HSA25 50 Watt = HSA50 75 Watt = HSA75 etc | 0.1ohm (100 mille ohms) R10 1ohm (1000 mille ohms) 1R0 | F - 1% G - 2% E - 3% J - 5% K - 10% |
| | C - Flange Two Sides | | 1K (1000 ohms) 1KO | |

180.0

73.0

42.0

5.6

20.25

5.3

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