

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 (mm²):	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

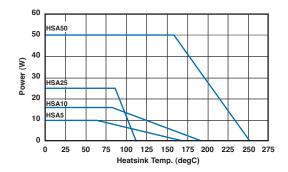
	HSC100	HSC150	HSC200	HSC250	HSC300
Dissipation @ 25°C with Heatsink (Watts):	100	150	200	250	300
Without Heatsink:	50	55	50	60	75
Ohmic Value Min (Ohms):	R05	R10	R10	R10	R10
Max:	100K	100K	50K	68K	82K
Max. Working Voltage (DC or ACrms) Volts:	1900	2500	1900	2200	2500
Dielectric Strength (AC Peak) Volts:	5000	5000	5600	5600	5600
Stability (% resistance change, 1000 hours) (%):	2	2	3	3	3
Standard Heatsink - Area (mm²):	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



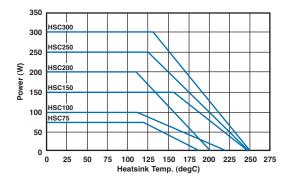
Characteristics - Electrical

Long Term Stability:	For improvements in long-term stability, resistors must be derated				
	as follows; for 50% of stated ΔR maximum dissipation must not				
	exceed 70% of rating; for 25% of stated ΔR maximum, dissipation				
	must not exceed 50% of rating				
Insulation Resistance:	Dry: $10,000M\Omega$ minimum. After moisture test: $1000M\Omega$ minimum.				
Heat Dissipation:	Although the use of proprietary heat sinks with lower thermal				
	resistance is acceptable, up rating is not recommended.				
	The use of proprietary heat sink compound to improve thermal				
	conductivity is recommended for optimum performance of all				
	sizes but essential for HSC200, HSC250 & HSC300				
Specification:	Temperature coefficient below 100R, 50ppm/°C				
	Temperature coefficient above 100R, 30ppm/°C				
	Tolerance, 5% standard: 10%, 3%, 2%, 0.5% & 0.25% available				
	Tolerance for values below R10, 10% standard				

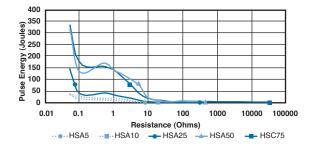
Derating Curve HSA5 to HSA50



Derating Curve HSC75 to HSC300

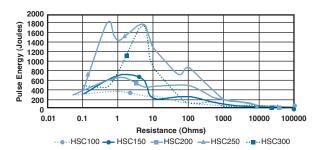


Pulse Energy HSA5 to HSC75

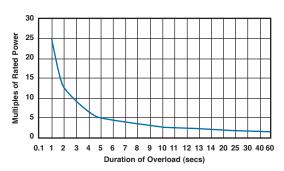




Pulse Energy HSC100 to HSC300

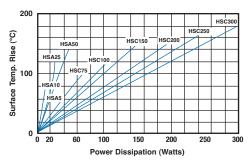


Power Overload



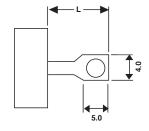
This graph indicates the amount that the rated power (at 20°C) of the standard HS Series resistor may be increased for overloads of 100mS to 60S

Surface Temperature Rise



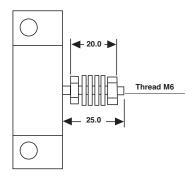
For resistor mounted on standard heatsink, related to power dissipation

Product Specifications - HSA5 - HSC150



Туре	L	
HSA5, 10	7	
HSA25, 50	10	
HSC75, 100, 150	8	

HSC200 - HSC300



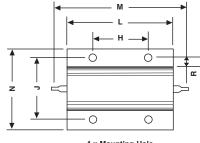


Dimensions - HSA5 - HSA50

HSA5 - 2.4mm HSA10 - 2.4mm HSA25 - 3.3mm

HSA50 - 3.3mm

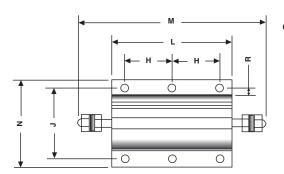
HSC75 - HSC150



4 x Mounting Hole

HSC75 - 4.4mm HSC100 - 4.4mm HSC150 - 4.4mm

HSC200+



6 x Mounting Hole

HSC200 - 5.3mm HSC250 - 5.3mm

HSC300 - 6.5mm



Туре	H±0.3	J±0.3	K±0.2	L Max	M Max	N Max	P Max	R Min	T±0.5	U Max
HSA5	11.3	12.4	2.4	17.0	30.0	17.0	9.0	1.9	4.3	2.5
HSA10	14.3	15.9	2.4	21.0	36.5	21.0	11.0	1.9	5.2	3.2
HSA25	18.3	19.8	3.3	29.0	51.0	28.0	15.0	2.8	7.2	3.2
HSA50	39.7	21.4	3.3	51.0	72.5	30.0	17.0	2.8	8.2	3.2
HSC75	29.0	37.0	4.4	49.0	71.0	47.5	26.0	5.0	11.5	3.5
HSC100	35.0	37.0	4.4	65.5	87.5	47.5	26.0	5.0	11.5	3.5
HSC150	58.0	37.0	4.4	98.0	122.0	47.5	26.0	5.0	11.5	3.5
HSC200	35.0	57.2	5.3	90.0	143.0	73.0	42.0	5.6	20.25	5.3
HSC250	44.5	57.2	5.3	109.0	163.0	73.0	42.0	5.6	20.25	5.3
HSC300	52.0	59.0	6.5	128.0	180.0	73.0	42.0	5.6	20.25	5.3

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

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单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)