

Manufactured in line with the requirements of MIL 18546 and IEC 115, designed for direct heatsink mounting with thermal compound to achieve maximum performance.

- High Power to volume
- Wound to maximise High Pulse Capability
- Values from R005 to 100K
- Custom designs welcome
- RoHS Compliant

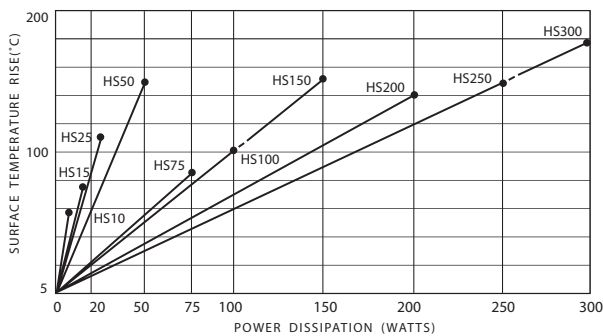


Characteristics

Tolerance (Code):	Standard $\pm 5\%$ (J) and $\pm 10\%$ (K). Also available $\pm 1\%$ (F), $\pm 2\%$ (G) and $\pm 3\%$ (H)
Tolerance for low Ω values:	Typically $\geq R05 \pm 5\% \leq R047 \pm 10\%$
Temperature coefficients:	Typical values $< 1K$ 100ppm Std. $> 1K$ 25ppm Std. For lower TCR's please contact Arcol
Insulation resistance (Dry):	10,000 M Ω minimum
Power dissipation:	At high ambient temperature dissipation derates linearly to zero at 200°C
Ohmic values:	From R005 to 100K depending on wattage size
Low inductive (NHS):	Specify by adding N before HS Series code, e.g. NHS50
NHS ohmic value:	Divide standard HS maximum value by 4
NHS working volts:	Divide standard HS maximum working voltage by 1.414

Temp. Rise & Power Dissipation

Surface temperature of resistor related to power dissipation. The resistor is standard heatsink mounted using a proprietary heatsink compound.



Heat Dissipation

Heat dissipation: Whilst the use of proprietary heat sinks with lower thermal resistances is acceptable, uprating is not recommended. For maximum heat transfer it is recommended that a heat sink compound be applied between the resistor base and heat sink chassis mounting surface. It is essential that the maximum hot spot temperature of 200°C is not exceeded, therefore, the resistor must be mounted on a heat sink of correct thermal resistance for the power being dissipated.

Ordering Procedure

Standard Resistor. To specify standard: Series, Watts, Ohmic Value, Tolerance Code, e.g.: HS25 2R2 J

Non Inductive Resistor. To specify add N, e.g.: NHS100 10R J

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E sales@arcolresistors.com

The information contained herein does not form part of a contract and is subject to change without notice. ARCOL operate a policy of continual product development, therefore, specifications may change.

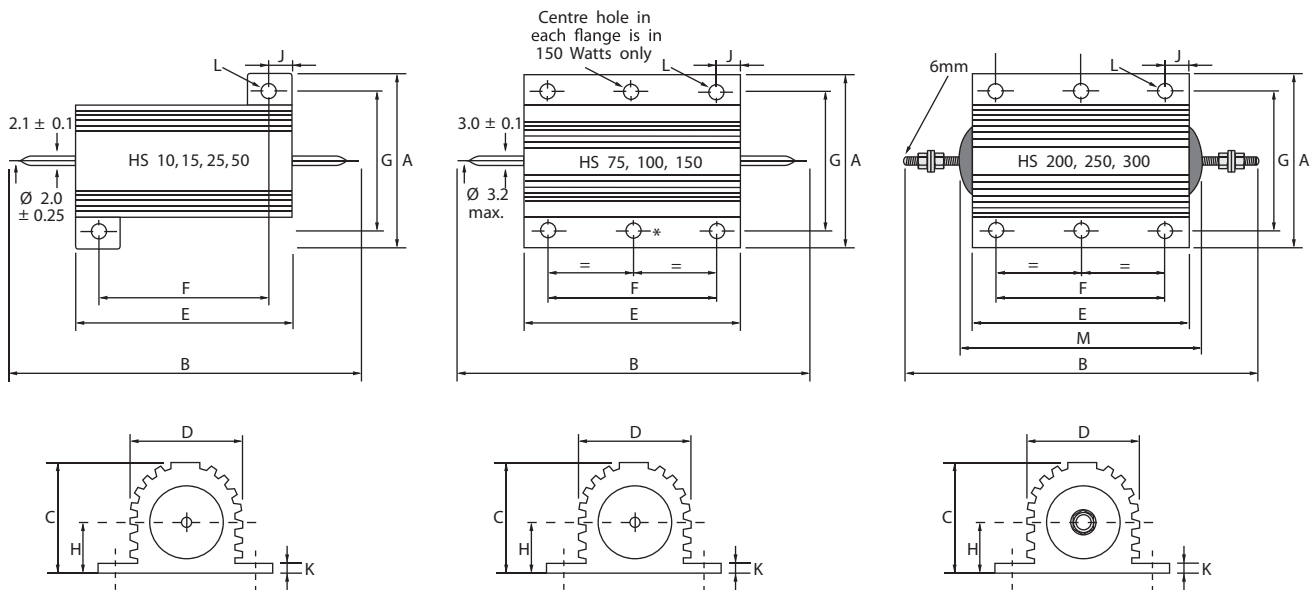
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

For more information and ordering, please consult
www.arcolresistors.com

Electrical Specifications

Size	Style MIL-R 18546	Power rating on std. heatsink @25°C	Watts with no heatsink @25°C	Resistance range	Limiting element voltage	Voltage proof AC Peak	Voltage proof AC rms.	Approx weight gms	Typical surface rise HS mounted	Standard heatsink	
										cm ²	Thickness mm
HS10	RE 60	10	5	R005-10K	160	1400	1000	4	5.8	415	1
HS15	RE 65	15	7	R005-10K	265	1400	1000	7	5.1	415	1
HS25	RE 70	25	9	R005-36K	550	3500	2500	14	4.2	535	1
HS50	RE 75	50	14	R01-86K	1250	3500	2500	32	3.0	535	1
HS75		75	24	R01-50K	1400	6363	4500	85	1.1	995	3
HS100		100	30	R01-70K	1900	6363	4500	115	1.0	995	3
HS150		150	45	R01-100K	2500	6363	4500	175	1.0	995	3
HS200		200	50	R01-50K	1900	7070	5000	475	0.7	3750	3
HS250		250	55	R01-50K	2200	7070	5000	600	0.6	4765	3
HS300		300	60	R01-68K	2500	7070	5000	700	0.6	5780	3

HS10-HS300 Standard Resistor



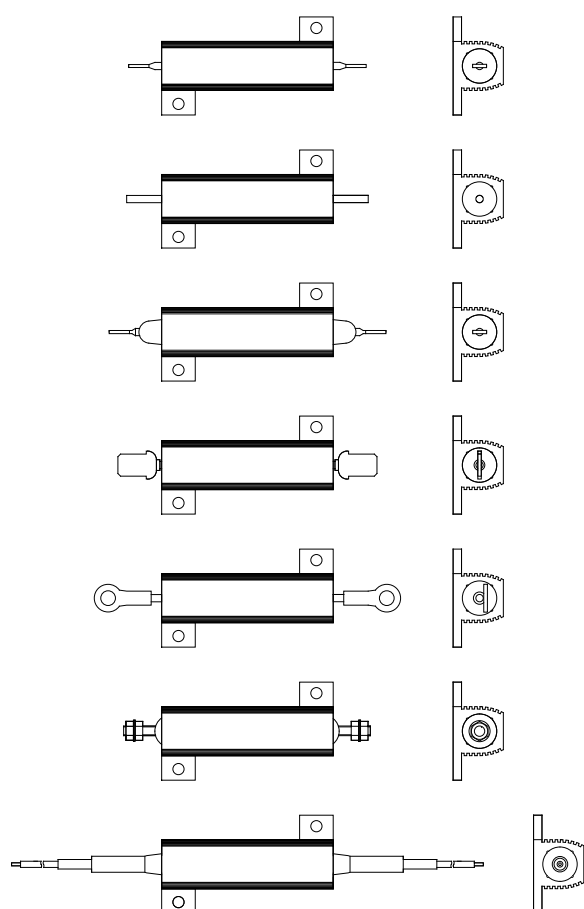
Dimensions (mm)

Size	A Max	B Max	C Max	D Max	E Max	F $\pm$ 0.3	G $\pm$ 0.3	H Max	J Max	K Max	L $\pm$ 0.25*	M Max
HS10	16.5	30.0	8.8	8.5	15.9	11.3	12.4	4.5	2.4	1.8	2.4	
HS15	21.0	36.5	11.0	11.2	19.9	14.3	15.9	5.5	2.8	1.8	2.4	
HS25	28.0	51.0	14.8	14.2	27.3	18.3	19.8	7.7	5.2	2.6	3.2	
HS50	28.0	72.5	14.8	14.2	49.1	39.7	21.4	8.4	5.2	2.6	3.2	
HS75	47.5	72.0	24.1	27.3	48.7	29.0	37.0	11.8	10.4	3.7	4.4	
HS100	47.5	88.0	24.1	27.3	65.2	35.0	37.0	11.8	15.4	3.7	4.4	
HS150	47.5	121.0	24.1	27.3	97.7	58.0	37.0	11.8	20.4	3.7	4.4	
HS200	72.5	145.7	41.8	45.5	89.7	70.0	57.2	20.5	10.4	5.5	5.1	103.4
HS250	72.5	167.0	41.8	45.5	109.7	89.0	57.2	20.5	10.4	5.5	5.1	122.4
HS300	72.5	184.4	41.8	45.5	127.7	104.0	59.0	20.5	12.4	5.5	6.6	141.4

* HS200-HS300 Watts is ± 0.45

The HS Range of Aluminium Housed Resistors has been designed for a variety of solder, cable, threaded and fast on terminations. If you need a special termination design for your application, please contact us for advice.

For electrical and mechanical specifications please refer to HS Series datasheet - Aluminium Housed Power Resistors.



HS ___ - Standard Pressed Termination
Available on HS10-50, 75-150

HS ___ J - Unpressed Termination
Available on HS10-50, 75-150

HS ___ X - Extended Mouldings
To increase creepage and strike distance between terminal and housing. Available on HS10-50, HS75-150
Also available on HS200-300 E6 using stud mounted resin disk

HS ___ M - 6.35mm Spade Termination
Amp style push on connection
Available on HS10-50, HS75-150

HS ___ Drawing No. - Attached Termination To Drawing
Available on HS10-50, HS75-150

HS ___ E - Threaded Stud Termination
Available on HS25-50 E3, HS75-150 E4 or E6, HS200-300 E6

HS ___ F - Ledded Termination
Leads fitted and insulated externally after moulding
Available with standard lead lengths on HS10-50 150mm, HS75-150 150mm, HS200-300 300mm
Extra length available on request at extra charge

For other special terminations, high voltage, low inductance windings, water cooled type HSW600 etc. please contact Arcol sales.

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Mouser Electronics

Authorized Distributor

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Ohmite:

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[HS25 15R 1%](#) [HS25 1K0 1%](#) [HS10 2R7 1%](#) [HS250 2K7 1%](#) [HS25 8R0 1%](#) [HS10 2K2 1%](#) [HS10 3K3 1%](#) [HS250](#)
[2R7 1%](#) [HS100 2R7 1%](#) [HS10 250R 1%](#) [HS25 3K3 1%](#) [HS10 560R 1%](#) [HS100 0R47 5%](#) [HS25 10K 1%](#) [HS250](#)
[40R 1%](#) [HS250 680R 1%](#) [HS100 0R22 5%](#) [HS100 0R33 5%](#) [HS100 0R56 5%](#) [HS100 680R 1%](#) [HS100 0R51 5%](#)
[HS250 75R 1%](#) [HS250 7R5 1%](#) [HS100 0R15 5%](#) [HS100 1K5 1%](#) [HS100 0R82 5%](#) [HS100 0R68 5%](#) [HS100 0R27](#)
[5%](#) [HS100 7R5 1%](#) [NHS100 10R 1%](#) [HS100 300R 1%](#) [HS250 220R 1%](#) [NHS300 10R 5%](#) [NHS300 11R 5%](#)
[NHS100 15R 1%](#) [HS100 220R 1%](#) [HS10 1R0 1%](#) [HS10 1R5 1%](#) [HS100 8R0 1%](#) [HS250 8R0 1%](#) [HS10 500R 1%](#)
[NHS200 5R6 1%](#) [HS25 30R 1%](#) [HS25 680R 1%](#) [HS100 4K7 1%](#) [HS25 220R 1%](#) [HS25 330R 1%](#) [HS100 560R 1%](#)
[HS250 4R7 1%](#) [NHS50 180R 1%](#) [HS100 4R7 1%](#) [HS100 500R 1%](#) [HS250 500R 1%](#) [HS10 100R 1%](#) [HS25 7R5 1%](#)
[HS250 60R 1%](#) [HS250 68R 1%](#) [HS100 33R 1%](#) [HS250 0R47 1%](#) [HS100 30R 1%](#) [HS100 3K0 1%](#) [NHS300 100R](#)
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[HS10 330R 1%](#) [HS250 5K 1%](#) [HS10 8R0 1%](#) [HS250 56R 1%](#) [NHS25 40R 1%](#) [HS10 68R 1%](#) [HS10 20R 1%](#)
[HS10 22R 1%](#) [HS25 250R 1%](#) [NHS150 0R5 5%](#) [HS25 22R 1%](#) [HS25 20R 1%](#) [NHS300 260R 1%](#) [HS10 75R 1%](#)
[HS100 470R 1%](#) [HS25 20K 1%](#) [HS250 470R 1%](#)