

# HS(M) Series

## Aluminum Housed Resistors



Ohmite and Arcol's aluminum housed resistors are now available in this new version. The HS(M) has the ability to connect with a faston connector and does not need to solder wires to the standard terminals. This saves time and ensures a good connection to the resistor.

### FEATURES

- High power to volume
- Wound to maximize High Pulse capability
- Values from R005 to 100K
- Custom designs welcome
- Ability to connect to a 250 series faston connector
- RoHS Compliant

### SERIES SPECIFICATIONS

Size	Power rating on std. heat-sink @25°C	Watts with no heatsink @25°C	Resistance range	Limiting element voltage	Voltage proof AC Peak	Voltage proof AC rms	Approx weight (g)	Typical surface rise HS mounted	Standard Heatsink cm <sup>2</sup>	Thick-ness (mm)
HS25M	25	9	R005-36K	550	3500	2500	14	4.2	535	1
HS50M	50	14	R01-86K	1250	3500	2500	32	3.0	535	1
HS75M	75	24	R01-50K	1400	6363	4500	85	1.1	995	3
HS100M	100	30	R01-70K	1900	6363	4500	115	1.0	995	3
HS150M	150	45	R01-100K	2500	6363	4500	175	1.0	995	3

### CHARACTERISTICS

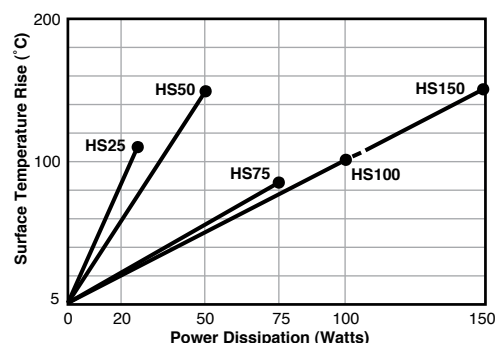
<b>Tolerance (Code)</b>	Standard $\pm 5\%$ (J) and $\pm 10\%$ (K). Also available $\pm 1\%$ (F), $\pm 2\%$ (G) and $\pm 3\%$ (H)
<b>Tolerance for low <math>\Omega</math> values</b>	Typically $\geq R05 \pm 5\% \leq R047 \pm 10\%$
<b>Temperature coefficients</b>	Typical values $< 1K$ 100ppm Std. $> 1K$ 25ppm Std. For lower TCR's please contact Ohmite
<b>Insulation resistance (Dry)</b>	10,000 M $\Omega$ minimum
<b>Power dissipation</b>	At high ambient temperature dissipation derates linearly to zero at 200°C
<b>Ohmic values</b>	From R005 to 100K depending on wattage size
<b>Low inductive (NHS)</b>	Specify by adding N before HS(M) Series code, e.g. NHSM50
<b>NHS ohmic value</b>	Divide standard HS(M) maximum value by 4
<b>NHS working volts</b>	Divide standard HS(M) maximum working voltage by 1.414

### 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.

### Temp. Rise & Power Dissipation

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



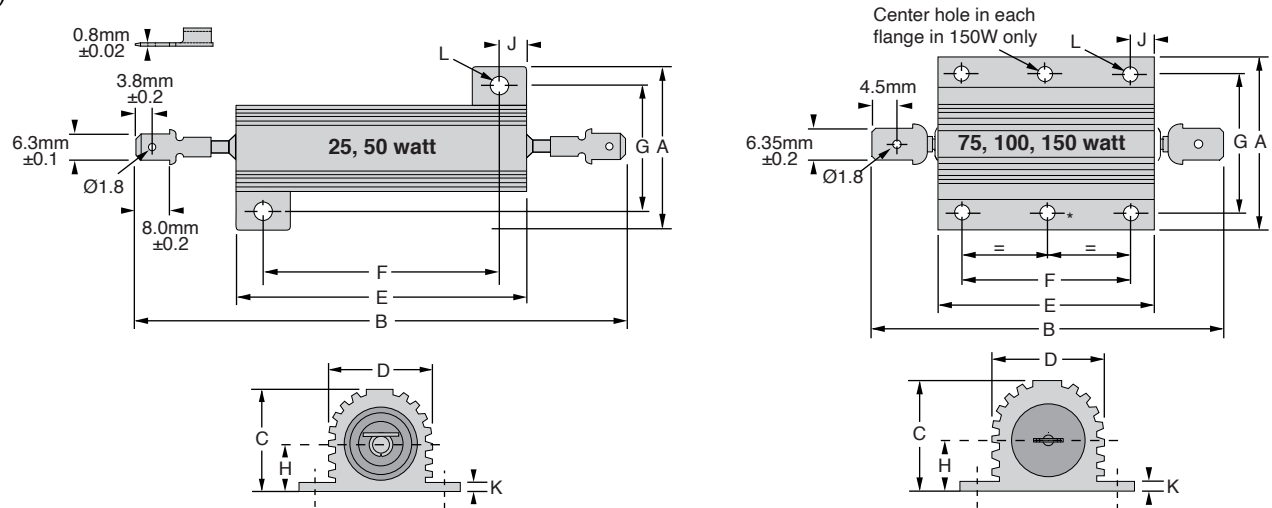
(continued)

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DIMENSIONS

(mm)



Size	A max.	B max.	C max.	D max.	E max.	F ±0.3	G ±0.3	H max.	J max.	K max.	L ±0.25
HS25M	28.0	68.5	14.8	14.2	27.3	18.3	19.8	7.7	5.2	2.6	3.2
HS50M	28.0	93.0	14.8	14.2	49.1	39.7	21.4	8.4	5.2	2.6	3.2
HS75M	47.5	76.7	24.1	27.3	48.7	29.0	37.0	11.8	10.4	3.7	4.4
HS100M	47.5	93.2	24.1	27.3	65.2	35.0	37.0	11.8	15.4	3.7	4.4
HS150M	47.5	125.7	24.1	27.3	97.7	58.0	37.0	11.8	20.4	3.7	4.4

ORDERING INFORMATION

HS25M

2R2

J

Series

Wattage

Terminal

Ohms

Tolerance

R05 = 0.05Ω

F = 1%

1R0 = 1.0Ω

J = 5%

10R = 10Ω

K = 10%

100 = 100Ω

10K = 10,000Ω

14K7 = 14,700Ω