

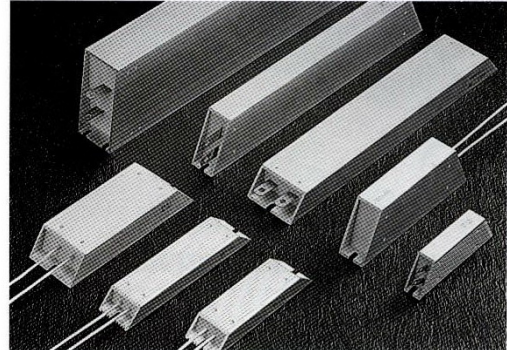


HIGH-POWER METAL-CLAD WIREWOUND RESISTORS

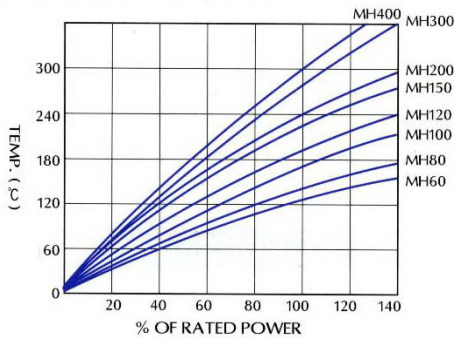
LARGE-CAPACITY TYPE RESISTORS Aluminum Cased (Economy type)

FEATURES:

- Low price Small size.
- High power and Excellent load life stability.
- Excellent short time over load.
- Strongly resistant to moisture, solvent and insulation.
- Self-extinguish material is used in molding.
- both standard winding type and non-inductive winding type are available.
- Terminal arrangements should be separately specified.
- High-surge-resistant items are also available.
- Items with the thermal switches are also available.



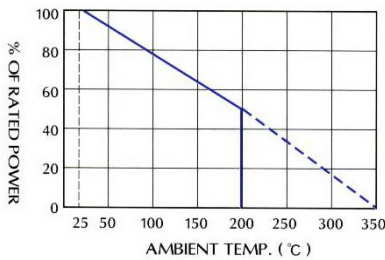
SURFACE TEMPERATURE VERSUS POWER LOAD (on Chassis 300X300X3t)



NOMINAL RESISTANCE VALUES

Type	Wattage Rating (W)	Resistance Range (Ω)		
		Standard Type	Non-inductive Type	
MH (L) MV	60	60	0.001 Ω ~ 5K Ω	0.1 Ω ~ 2.5K Ω
MH (L) MV	80	80	0.001 Ω ~ 6K Ω	0.2 Ω ~ 3K Ω
MH (L) MV	100	100	0.001 Ω ~ 8K Ω	0.2 Ω ~ 4K Ω
MH (L) MV	120	120	0.001 Ω ~ 10K Ω	0.2 Ω ~ 5K Ω
MH (L) MV	150	150	0.001 Ω ~ 12K Ω	0.2 Ω ~ 6K Ω
MH (L) MV	200	200	0.001 Ω ~ 15K Ω	0.2 Ω ~ 7K Ω
MH (L) MV	300	300	0.001 Ω ~ 18K Ω	0.5 Ω ~ 8K Ω
MH (L) MV	400	400	0.001 Ω ~ 20K Ω	0.5 Ω ~ 10K Ω
MH (L) MV	500	500	0.001 Ω ~ 25K Ω	0.5 Ω ~ 12K Ω
MH (L) MV	1000	1000	0.005 Ω ~ 30K Ω	1 Ω ~ 15K Ω

DERATING



PERFORMANCE

Parameters	Test Conditions	Specifications
Short Time Over Load	5X wattage rating-5sec.	$\Delta R \pm (2\%+0.05 \Omega)$ MAX
Moisture Resistance	temp 40 °C moisture 95% DC 100v500Hr	$\Delta R \pm (3\%+0.05 \Omega)$ MAX
Moisture Load Life	temp 40 °C moisture 95% 1/10 X wattage rating (1.5Hr ON-0.5Hr OFF) - Repeat 1000Hr	$\Delta R \pm (3\%+0.05 \Omega)$ MAX
Load Life	Load Rating (chassis mounted) (1.5Hr ON 0.5Hr OFF) Repeat 1000Hr	$\Delta R \pm (5\%+0.05 \Omega)$ MAX
Vibration	10c/s~50c/s~10c/s (1min)-2Hr each of paralleled and right angle	$\Delta R \pm (1\%+0.05 \Omega)$ MAX
Heat Resistance	275 °C 2Hr	$\Delta R \pm (0.5\%+0.05 \Omega)$ MAX
Dielectric Strength	AC1500V	$\Delta R \pm (0.2\%+0.05 \Omega)$ MAX
Insulation Resistance	Under the same test condition of Dielectric Strength, load DC500V and measure the Insulation R.	100M Ω min
Temp. coefficient	± 260 ppm/ °C MAX	
Operating Temp.	-55 °C ~+250 °C	

HOW TO ORDER

MH100 Type N 80 Ω Resistance J Tolerance

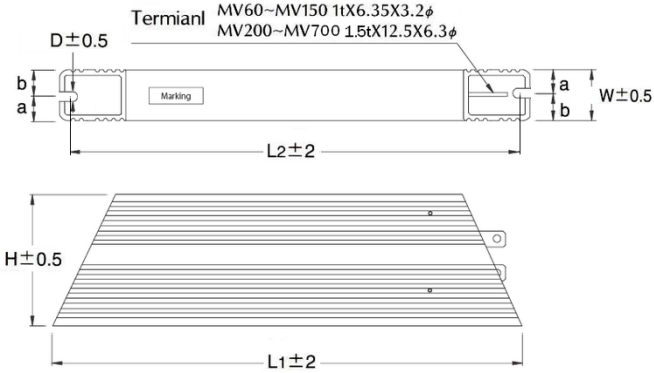
In case of Non-inductive type, use the N

Resistance Tolerance	
D	$\pm 0.5\%$
F	$\pm 1\%$
G	$\pm 2\%$
H	$\pm 3\%$
J	$\pm 5\%$
K	$\pm 10\%$



METAL-CLAD WIREWOUND RESISTORS DIMENSIONS – 60W ~ 700W

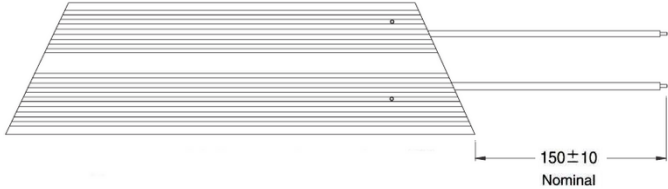
TYPE: MV



EXTERNAL DIMENSIONS

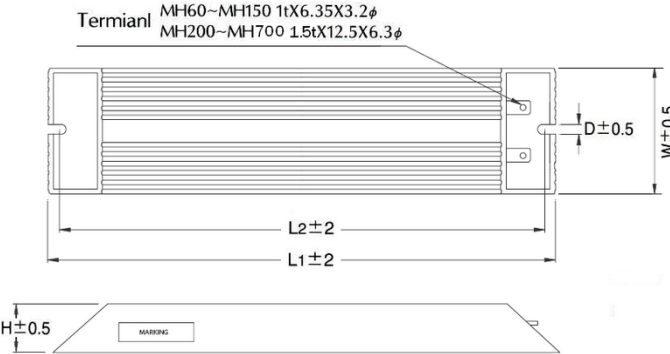
Type	Dimensions (mm)							Weight (g)
	L1	L2	W	H	D	a ± 0.5	b ± 0.5	
MV60	115	100	20	40	5.3	8.0	12.0	110
MV80	140	125	20	40	5.3	8.0	12.0	160
MV100	165	150	20	40	5.3	8.0	12.0	200
MV120	190	175	20	40	5.3	8.0	12.0	240
MV150	215	200	20	40	5.3	8.0	12.0	290
MV200	165	150	30	60	5.3	15.0	15.0	460
MV300	215	200	30	60	5.3	15.0	15.0	750
MV400	265	250	30	60	5.3	15.0	15.0	930
MV500	335	320	30	60	5.3	15.0	15.0	1100
MV700	435	420	30	60	5.3	15.0	15.0	1400
MVT200	165	150	30	60	5.3	13.0	17.0	460
MVT300	215	200	30	60	5.3	13.0	17.0	750
MVT400	265	250	30	60	5.3	13.0	17.0	930
MVT500	335	320	30	60	5.3	13.0	17.0	1100
MVT700	435	420	30	60	5.3	13.0	17.0	1400

TYPE: MVL



* Lead's size to customers' request

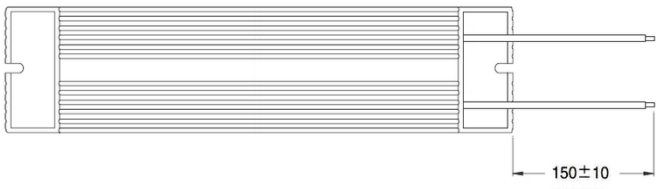
TYPE: MH



EXTERNAL DIMENSIONS

Type	Dimensions (mm)					Weight (g)
	L1	L2	W	H	D	
MH 60	115	100	40	20	5.3	110
MH 80	140	125	40	20	5.3	160
MH 100	165	150	40	20	5.3	200
MH 120	190	175	40	20	5.3	240
MH 150	215	200	40	20	5.3	290
MH 200	165	150	60	30	5.3	460
MH 300	215	200	60	30	5.3	750
MH 400	265	250	60	30	5.3	930
MH 500	335	320	60	30	5.3	1100
MH 700	435	420	60	30	5.3	1400

TYPE: MHL



* Lead's size to customers' request

FLYING LEADS (TYPE MHL & TYPE MVL)

1.25 mm ² UL3122 AWG16	2 mm ² AWG14	3.5 mm ² AWG12	5.5 mm ² AWG10
2.5Ω & Up	Optional	Optional	Optional



METAL-CLAD WIREWOUND RESISTORS DIMENSIONS - 800W~2500W

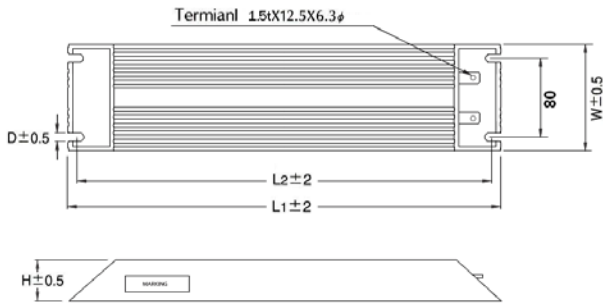
• **Optional Features**

- 1、Space heater with thermostat.
- 2、Dielectric Strength : Normal 1500V/AC, also can choose 2500V, 3500V, 4500V.
- 3、Available with two or many tab terminals and flying leads.

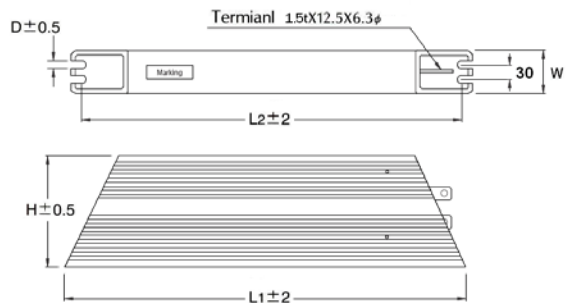
• **SPECIFICATIONS**

TYPE	Rated Power (W)			Resistance Range (Ω)	
	Mounted On Aluminum Chassis 604x604x3T	Mounted On Aluminum Chassis 1000x1000x5T	Un-Mounted Heat Sink	Standard Type	Non-Inductive Type
MH 1000 MV 1000	1000W	1800W	800W	0.5Ω ~ 30KΩ	1Ω ~ 15KΩ
MH 1500 MV 1500	1500W	2500W	1200W	0.5Ω ~ 50KΩ	1Ω ~ 25KΩ

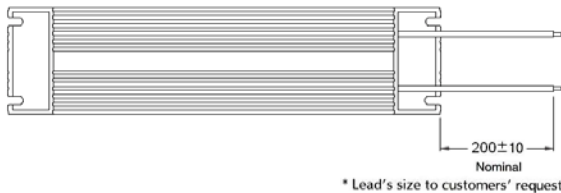
TYPE:MH



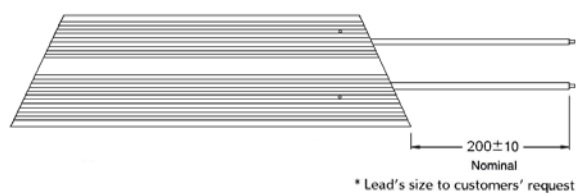
TYPE:MV



TYPE:MHL



TYPE:MVL



• **EXTERNAL DIMENSIONS**

TYPE	Dimensions (mm)					Weight (g)
	L1	L2	W	H	D	
MH 1000 MV 1000	400	385	100 50	50 100	5.3	3400
MH 1500 MV 1500	550	535	100 50	50 100	5.3	4600

• **FLYING LEADS (TYPE MHL & TYPE MVL)**

1.25mm ² UL3122 AWG16	2mm ² AWG14	3.5mm ² AWG12	5.5mm ² AWG10	8mm ² AWG 8
10Ω & Up	Optional	Optional	Optional	Optional