HEAT SINK RESISTORS

HIGH POWER /INDUCTIVE & NON-INDUCTIVE

Applications:

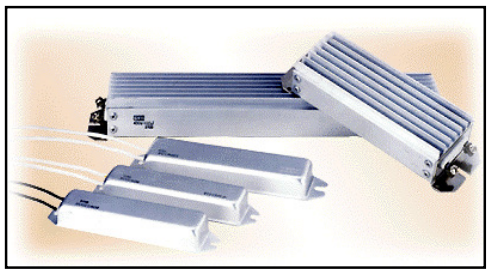
Automobile, D.C. /A.C. drives. control engineering, avionics, instrumentation, heavy industrial applications
Power Switchgear/protection, Slip ring motor starting, nuclear, solid state physical application, X-ray,
Power supplies Nuclear/power plant/heavy electrical and mechanical engineering, packaging,
Special performance sensor actuators for linear/rotary motion control, eneration//transmission/distribution.

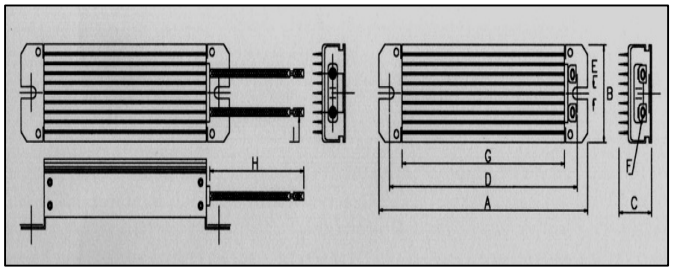
Introduction:

MHSR series of heat sink resistors are normally wire wound/thick film resistance with better thermal stability over wide power range. An aluminum encased resistor consists of an alloy metal coil-type resistance element assembled into an aluminum enclosure using high temperature special cement paste. These compact resistances are not affected by external mechanical force, dusty environments. It is durable, vibration-proof, dissipates heat well, and has a low temperature coefficient, with resistance varying in direct proportion. End terminal are either tin coated brass or copper metal. Tailor-made resistances are always encouraged.

Benefits:

High flash temperature / Better temperature operating range.
Easy installation, Non abrasive/ chemically compatible.
Stable power dissipation over specified working ranging.
High energy density/thermal stability/dielectric strength coating.
Moisture resistance
Vibration /shok resistance





High voltage, aluminum encased resistor.

Electrical/Mechanical specifications: **Power: 200 to 5000 Watts**

Model	Power watt	A m.m.	B m.m.	C m.m.	D m.m.	E m.m.	F m.m.	G m.m.	H m.m.	T_{lead} m.m	Rmin ohm	Rmax ohm
MHSR-002	0200	200	65	45	185	06	M5×8	160	300	0.8-2.0	00.5	10000
MHSR-003	0300	290	65	45	275	06	M5×8	250	300	0.8-2.0	00.5	10000
MHSR-004	0400	450	65	45	435	06	M5×8	410	300	0.8-2.0	00.5	10000
MHSR-005	0500	450	65	45	435	06	M5×8	410	300	0.8-2.0	00.5	10000
MHSR-006	0600	560	65	45	545	06	M5×8	520	300	0.8-2.0	00.5	10000
MHSR-010	1000	560	120	45	545	06	M5×8	520	300	0.8-2.0	00.5	10000
MHSR-030	3000	560	120	85	545	06	M5×8	520	300	0.8-2.0	00.5	10000
MHSR-030	3000	560	120	85	545	06	M5×8	520	300	0.8-2.0	00.5	10000
MHSR-050	5000	740	150	100	725	06	M5×8	700	300	0.8-2.0	00.5	10000

Company may have to change diemensions nominally of product in light of production constraints.

General Electrical/Mechanical Technical Specificatioon:

Resistance Range: 0.0-10,000ohm
Resistance tolerance :R ±5%(J) ±10%(K)
Terminal: tin coated copper
Coating: siloxane modified polymer (glazed/non-glazed)
Temperature coefficient (-55°C-155 °C): ±350PPM/□ Max
Short-term over load :1000%rated power 5s
Rated Load Rated wattage 30 min: □R≤±(2%+0.05Ω)
Effect of Soldering:□R≤±(0.2%+0.05Ω)
Insulation Resistance: 5-6 over 1000MΩ
Moisture Resistance: 1000hr □R≤± (2%R0+0.05Ω)
Moisture-Proof load life (40 °C 95%RHon ~ off cycle 1000 hrs.): □R≤± (5%R_0+0.1Ω)
Load Life 40 °C 95%RHon ~ off cycle 1000 hrs.
No flammability : not flamed
Terminal tensile strength: 22.2N for 5w-25w, 44.4N for all other
Dielectric resistance of coating: 500 volt/1000 volt/3000 volt
Power density: 3.5-4.0 gram/watt

MOTORON SEMICONDUCTORS CORPORATION
11, Shri Nagar Colony, Shakti Nagar Extension, Delhi-110052 Tel: 91-011-23655454/8800292956
motorony@hotmail.com

HEAT SINK RESISTORS

HIGH POWER /INDUCTIVE & NON-INDUCTIVE

Electrical/Mechanical specifications(Air Cooled): **Power: 200 to 5000 Watts**

Model	Power watt	A m.m.	B m.m.	C m.m.	D m.m.	E m.m.	F m.m.	G m.m.	H m.m.	J m.m.	K m.m	L m.m
MHSR-025	0025	28	051.0	15.0	13.0	29	18.5	19.8	7.2	4.3	2.8	3.2
MHSR-050	0050	30	073.0	17.0	15.3	51	40.0	21.0	8.0	5.0	2.5	1.7
MHSR-100	0100	48	088.0	26.0	27.0	65	35 .0	37.0	11.2	15	3.5	4.4
MHSR-250	0200	73	146.0	45.0	46.0	90	70.0	57.0	20.0	10	5.0	5.1
MHSR-500	0500	73	242.0	45.0	46.0	218	198.0	57.0	20.0	20	5.0	5.1

Electrical/Mechanical specifications(Water Cooled): **Power: 200 to 1000 Watts**

Model	Power watt	A m.m.	B m.m.	C m.m.	D m.m.	E m.m.	F m.m.	G m.m.	H m.m.	J m.m.	K m.m	L m.m
MHSR-0100	0025	28	051.0	15.0	13.0	29	18.5	19.8	7.2	4.3	2.8	3.2
MHSR-0200	0050	30	073.0	17.0	15.3	51	40.0	21.0	8.0	5.0	2.5	1.7
MHSR-0500	0100	48	088.0	26.0	27.0	65	35 .0	37.0	11.2	15	3.5	4.4
MHSR-1000	0200	73	146.0	45.0	46.0	90	70.0	57.0	20.0	10	5.0	5.1
MHSR-2000	0500	73	242.0	45.0	46.0	218	198.0	57.0	20.0	20	5.0	5.1

Electrical specification(Air Cooled)

Model	Power watt	Rmin ohm	Rmax ohm
MHSR-025	0025	00.5	10000
MHSR-050	0050	00.5	10000
MHSR-100	0100	00.5	10000
MHSR-250	0250	00.5	10000
MHSR-500	0500	00.5	10000

Electrical specification(Water Cooled)

Model	Power watt	Rmin ohm	Rmax ohm
MHSR-0100	0200	00.5	10000
MHSR-0200	0300	00.5	10000
MHSR-0500	0400	00.5	10000
MHSR-01000	0500	00.5	10000
MHSR-02000	0600	00.5	10000

Company may have to change diemensions nominally of product in light of production constraints.

General Electrical/Mechanical Technical Specificatioon:

Resistance Range: 0.0-10,000ohm
Resistance tolerance :R ±5%(J) ±10%(K)
Terminal: tin coated copper
Coating: siloxane modified polymer (glazed/non-glazed)
Temperature coefficient (-55°C-155 °C): ±350PPM/□ Max
Short-term over load :1000%rated power 5s
Rated Load Rated wattage 30 min: □R≤±(2%+0.05Ω)
Effect of Soldering:□R≤±(0.2%+0.05Ω)
Insulation Resistance: 5-6 over 1000MΩ
Moisture Resistance: 1000hr □R≤± (2%R0+0.05Ω)
Moisture-Proof load life (40 °C 95%RHon ~ off cycle 1000 hrs.): □R≤± (5%R_0+0.1Ω)
Load Life 40 °C 95%RHon ~ off cycle 1000 hrs.
No flammability : not flamed
Terminal tensile strength: 22.2N for 5w-25w, 44.4N for all other
Dielectric resistance of coating: 500 volt/1000 volt/3000 volt
Power density: 3.5-4.0 gram/watt

MOTORON SEMICONDUCTORS CORPORATION
11, Shri Nagar Colony, Shakti Nagar Extension, Delhi-110052 Tel: 91-011-23655454/8800292956
motorony@hotmail.com