

# HEAVY DUTY HEAT SINK RESISTORS

HIGH POWER /INDUCTIVE & NON-INDUCTIVE

**Applications:**

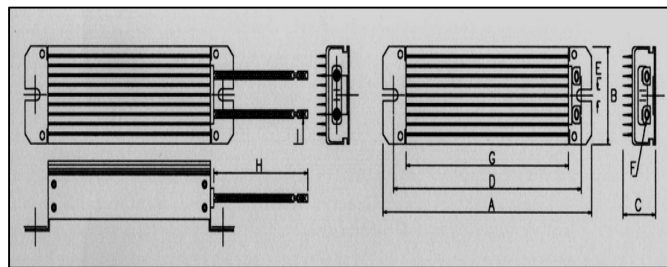
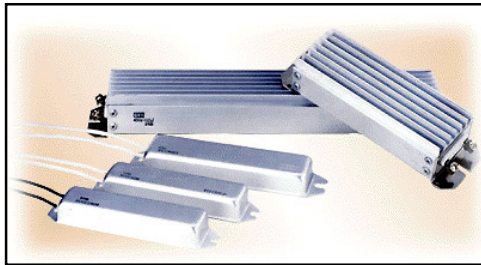
Automobile, D.C. /A.C. drives, control engineering, avionics, instrumentation, heavy industrial applications  
 Power Switchgear/protection, Slip ring motor starting, nuclear, solid state physical application, X-ray,  
 Power supplies Nuclear/power plant/heavy electrical and mechanical engineering, packaging,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

**Introduction:**

MHSR series of heat sink resistors are normally wire wound/thich 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. Following high-temperature anodization, the enclosure is filled with a special cement paste. These compact resistances are not affected by external mechanical force, dusty environments, and extreme duty. 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 3000 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.	Tlead m.m	Rmin ohm	Rmax ohm
MWWHR-002	0200	200	65	45	185	06	M5×8	160	300	0.8-2.0	00.5	10000
MWWHR-003	0300	290	65	45	285	06	M5×8	250	300	0.8-2.0	00.5	10000
MWWHR-004	0400	450	65	45	385	06	M5×8	410	300	0.8-2.0	00.5	10000
MWWHR-005	0500	460	65	45	485	06	M5×8	400	300	0.8-2.0	00.5	10000
MWWHR-006	0600	560	65	45	575	06	M5×8	480	300	0.8-2.0	00.5	10000
MWWHR-010	1000	460	120	45	445	06	M5×8	420	300	0.8-2.0	00.5	10000
MWWHR-030	3000	1350	120	85	1320	06	M5×8	1310	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 Specification:**

- Resistance Range: 0.0-100,00ohm
- 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%R0+0.1Ω)
- Load Life 40 °C 95%RHon ~ off cycle 1000 hrs.
- No flammability (500%, 1000%, 1600%); 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: 91-011-23648181/23655454  
 motoronenergy@hotmail.com