

# HEAVY DUTY WIRE WOUND AXIAL LEAD RESISTORS

INDUCTIVE & NON-INDUCTIVE

## Applications:

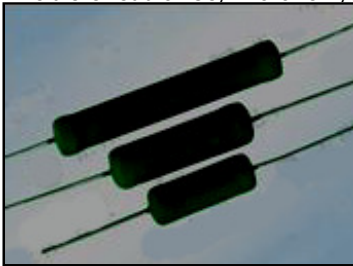
Automobile, D.C. /A.C. drives. Induction applications, Audio/video, avionics, instrumentation, Power Switchgear/protection, Slip ring motor starting, nuclear, solid state physical application, X-ray, Power supplies Nuclear/power plant/heavy electrical and mechanical engineering, packaging, Special performance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

## Introduction:

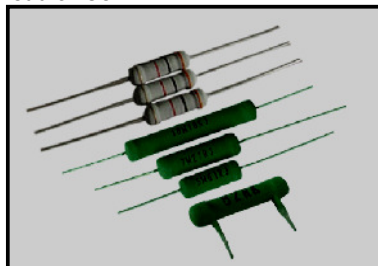
MWWAR series of power axial lead resistor are silicon coated/viterous wire wound resistance are improved version of mangnin/eureka/other precision alloy ensuring better thermal stability over wide low power range. These axial lead resistors are coated with special siloxane coating/ceramic coating to ensure high dielectric strength of wiring. In some cases these resistance may be offered coating withstanding higher temperature range. End terminal are either tin coated brass or copper metal. Tailor-made resistances are always encouraged.

## Benefits:

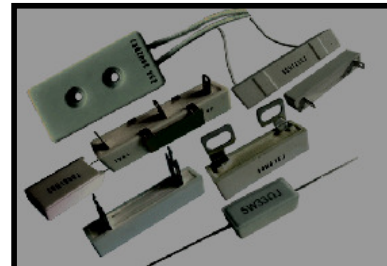
High flash temperature / Better temperature operating range.  
Easy installation, Non abrasive/ chemically compatible.  
Stable power dissipation over specified working ranging.  
High energy density/thermal stability/dielectric strength coating.  
Moisture resistance/ Vibration /shok resistance



Low Power Axial lead resistor



Low Power Axial lead resistor



Ceramic Heat Sink Resistance

## Electrical/Mechanical specifications:

Power: 03 to 30watts

Model	Power watt	Length m.m.	O.D. m.m.	I.D. m.m..	T <sub>Coat</sub> micron	T <sub>lead</sub> m.m	R <sub>min</sub> ohm	R <sub>max</sub> ohm
MWWAR-003	03	015	06	n.a.	200	38	00.5	0500
MWWAR-002	05	24	08	n.a.	200	30	00.5	1500
MWWAR-005	07	31	08	n.a.	200	30	00.5	1500
MWWAR-010	08	31	08	n.a.	200	30	00.5	7500
MWWAR-015	10	41	08	n.a.	200	30	00.5	5000
MWWAR-020	20	52	08	n.a.	200	30	00.5	6000
MWWAR-025	25	61	08	n.a.	200	30	00.5	7500

## Low Power Non-Axial lead resistor

## Electrical/Mechanical specifications:

Power: 3 to 30watts

Model	Power watt	Length m.m.	O.D. m.m.	I.D. m.m.	T <sub>Coat</sub> micron	T <sub>lead</sub> m.m	R <sub>min</sub> ohm	R <sub>max</sub> ohm
MWWAR-003	04	24	5	3	600	24	00.5	50000
MWWAR-002	05	24	8	5	200	24	00.5	50000
MWWAR-005	07	24	8	5	200	24	00.5	50000
MWWAR-010	10	31	8	5	200	24	00.5	50000
MWWAR-015	15	41	8	5	200	24	00.5	50000
MWWAR-020	20	61	8	5	200	24	00.5	50000
MWWAR-025	30	70	8	5	200	24	00.5	50000

Above dimension may vary from lot to lot on account of stray production constraints of raw material beyond control.

## General Electrical/Mechanical Technical Specification:

Resistance Range: 0.5-50000 ohm  
Resistance tolerance: 0.1%, 0.5%, 1.0%, 3.0%, 5.0%  
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)  
Insulation Resistance: over 1000MΩ  
Moisture Resistance: 10000 hr □R±(2%R0+0.05Ω)  
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

## MOTORON SEMICONDUCTORS CORPORATION

11, Shri Nagar Colony, Shakti Nagar Extension, Delhi-110052 Tel: 91-011-23648181/23655454  
motoronenergy@hotmail.com