



METAL OXIDE

METAL OXIDE RESISTORS

R Power Resistors

MO
Series

INTRODUCTION

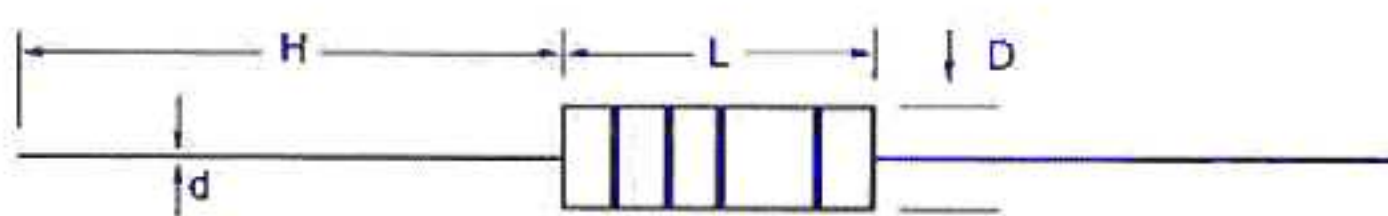
These Metal Oxide Resistors offer excellent performance in applications where stability and uniformity of characteristics are desired. They provide lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. Metal Oxide also can replace many low power General Purpose Wirewound applications, saving both money and time, with shorter delivery cycles.

FEATURES

- High power-to-size ratio for significant space savings.
- Excellent long-term stability.
- Complete flameproof construction.
- High surge/ overload capability.

DIMENSIONS (mm)

Type	L	D	H	d
MO-25 MO-50S	6.3±1.0	2.3 ± 0.3	28 ± 2.0	0.50 ± 0.05
MO-50 MO-100S	9.5±1.0	3.2 ± 0.5	26 ± 2.0	0.55 ± 0.05
MO-100 MO-200S	11.5 ± 1.0	4.5 ± 0.5	35 ± 2.0	0.75 ± 0.05
MO-200 MO-300S	15.5± 1.0	5.0 ± 0.5	32 ± 2.0	0.75± 0.05
MO-300 MO-500S	17.5± 1.0	6.5 ± 1.0	32 ± 2.0	0.80 ± 0.05
MO-500 MO-700S	24.5± 1.0	8.0 ± 1.0	38 ± 2.0	0.80 ± 0.05
MO-700 MO-1000S	53± 1.0	8.5 ± 1.0	38 ± 3.0	0.80 ± 0.05



MO E24 Series Marking: 4 Color Bands

•MO-1000S: 10W Rating in Miniature Size.



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POWER CHARACTERISTIC

ITEM	Power Rated	MO-25	MO-50	MO-100	MO-200	MO-300	MO-500	MO-700
		MO-50S	MO-100S	MO-200S	MO-300S	MO-500S	MO-700S	MO-1000S
Max Working Voltage		250 V	300 V	350 V	400 V	500 V	750 V	750 V
Max Overload Voltage		400 V	500 V	600 V	700 V	800 V	1000 V	1000 V
Max Intermittence Overload Voltage		500 V	600 V	1000 V	1000V	1500 V	1500 V	1500 V
Dielectric Withstanding Voltage		300 V(AC)	400V(AC)	500V(AC)	600V(AC)	700 V(AC)	800V(AC)	800V(AC)
Resistance Tolerance		(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)	(J±5%) (G±2%) (F±1%)
Resistance Range (Ω)		1.0 ~1M	1.0 ~1M	1.0 ~1M	1.0 ~1M	1.0 ~ 1M	1.0 ~1M	1.0 ~200K

NOTE1. Rated Continuous Working Voltage (RCWV) Shall Be Determined From

•MO-1000S: Rating 10W.

$$RCWV = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$$

POWER DERATING CURVE

