

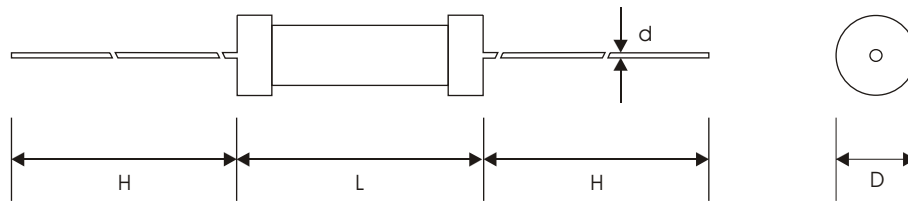
MO METAL OXIDE FILM RESISTOR (NONFLAMMABLE)

MO Series

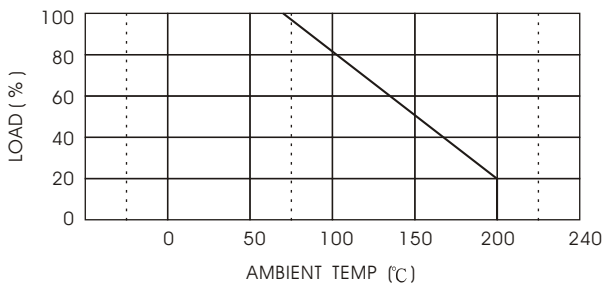
INTRODUCTION :

- ◆ Low cost, prompt delivery.
- ◆ High power-to-size ratio for significant space savings.
- ◆ Excellent long-term stability.
- ◆ Complete flameproof construction.
- ◆ High surge / overload capability.
- ◆ Controlled temperature coefficient.
- ◆ Non-inductive design.
- ◆ Wide resistance range : 0.5Ω to 1 MΩ .
- ◆ Standard tolerance : ± 2%, ± 5% (consult factory for 1 %)
- ◆ Coating and marking resist Trichlorethylene, Freon and other cleaning agents.
- ◆ Improved stability, dissipation, TCR available. Consult factory.

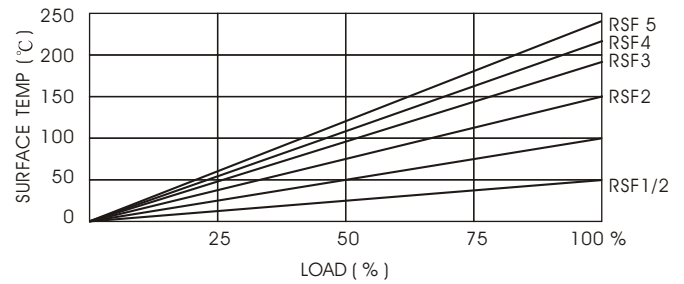
OUTLINE DRAWING



DERATING CURVE



SURFACE TEMP RISE



SPECIFICATIONS

STYLE	DIMENSION (mm)				POWER RATING	MAX WORKING VOLTAGE	MAX OVERLOAD VOLTAGE	RESISTANCE RANGE	
	L	D	d	H				± 2 % (G)	± 5 % (J)
MO 50S	9±0.5	3.5±0.5	0.7	30±3	0.5W	250 V	400 V	5.1Ω~100KΩ	1Ω~100KΩ
MO 100S	11.5±0.5	4.5±0.5	0.8 (0.7)	30±3	1WS	350 V	600 V	5.1Ω~100KΩ	1Ω~100KΩ
MO 100	13.0±0.5	5.5±0.5	0.8	35±3	1W	350 V	600 V	5.1Ω~100KΩ	1Ω~100KΩ
MO 200S	15.5±0.5	5.5±0.5	0.8	35±3	2WS	350 V	600 V	5.1Ω~120KΩ	1Ω~120KΩ
MO 200	18±1.0	6.5±1.0	0.8	35±3	2W(3WS)	350 V	600 V	5.1Ω~150KΩ	1Ω~150KΩ
MO 3NS	24.5±1.0	9.0±1.0	0.8	38±3	3W(4WS)	500 V	800 V	5.1Ω~150KΩ	1Ω~150KΩ
MO 4NS	34±1.0	9.0±1.0	0.8	38±3	4W(5WS)	500 V	800 V	5.1Ω~240KΩ	1Ω~240KΩ
MO 5S	41±1.0	9.0±1.0	0.8	38±3	5W	750 V	1000 V	5.1Ω~240KΩ	1Ω~240KΩ
MO 7S	51±1.0	9.0±1.0	0.8	38±3	7W	750 V		5.1Ω~270KΩ	1Ω~270KΩ

CHARACTERISTICS

REQUIREMENTS	PERFORMANCE	TEST METHOD	
		JIS-C-5202	MIR-R-226848
Operating Temp. Range	-55°C ~ +155°C		
Temp. Coefficient (ppm/°C)	±300	5.2	4.6.11
Short Time Overload	Δ Rmax ≤ ± 2% + 0.05Ω	5.5 - A	4.6.5
Resistance to Soldering Heat	Δ Rmax ≤ ± 1% + 0.05Ω	6.4. 350°C 3sec.	4.6.9
Temperature Cycling	Δ Rmax ≤ ± 1% + 0.05Ω	7.4. -55°C / 85°C, 5cycles	4.6.3
Moisture Resistance	Δ Rmax ≤ ± 5%	7.9 95% RH on-off 1,000 hrs.	4.6.10
Load Life	Δ Rmax ≤ ± 5%	7.10 70°C on-off 1,000 hrs	4.6.12
Dielectric Withstanding Voltage	Δ Rmax ≤ ± 0.5% + 0.05Ω	5.7 - A	4.6.7
Insulation Resistance	> 500 MΩ	5.6 - A	4.6.8
Non-Combustibility	The resistor shall withstand overload test in accordance with Artical UL 492.2.13 without producing a fire hazard.		