Metal Oxide Resetor - MO Series

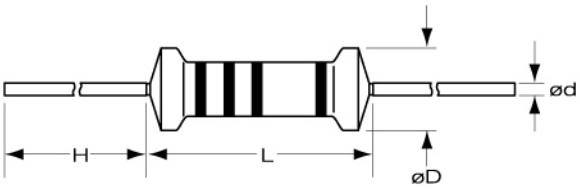
INTRODUCTION

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.
- Wide resistance range : 1Ω-180K
- Standard tolerance : ±5% , ±2% , ±1%

DIMENSIONS:



STYLE	POWER RATING (Watt)	DIMENSION (mm)				VALUE RANGE
		L	øD	H	ød	
MO	1/4W, 1/2WS	6.0±0.2	2.3±0.3	26.5±2	0.5±0.05	1Ω-180K
MO	1/2W, 1WS	9.5±0.5	3.2±0.5	26±2	0.58±0.05	1Ω-180K
MO	1W, 2WS	11.0±0.5	4.5±0.5	35±2	0.68±0.05	1Ω-180K
MO	2W, 3WS	15.0±0.5	5.0±0.5	32±2	0.78±0.05	1Ω-180K
MO	3W, 5WS	17.0±0.5	6.0±0.5	32±2	0.78±0.05	1Ω-180K
MO	5W, 7WS	25.0±1.0	8.0±0.5	35±3	0.78±0.05	1Ω-180K

ELECTRICAL CHARACTERISTICS:

Power Rating 70°C (Style)	MO 1/4W, 1/2WS	MO 1/2W, 1WS	MO 1W, 2WS	MO 2W, 3WS	MO 3W 5WS	MO 5W 7WS
Operating Temp. Range	-55°C ~ +155°C					
Max. Working Voltage	250V	350V	350V	350V	500V	600V
Max. Overload Voltage	400V	700V	700V	700V	1000V	500V
Dielectric Withstanding Voltage (AC)	300V	350V	350V	500V	1000V	1000V
Max. Intermittence Overload Voltage	400V	700V	1000V	1000V	1000V	1000V
Value Range ±1%, ±2%, ±5%	1Ω---180K					
Temp. Coefficient (by Type)	±350ppm/°C					

FIG.1 DERATING CURVE

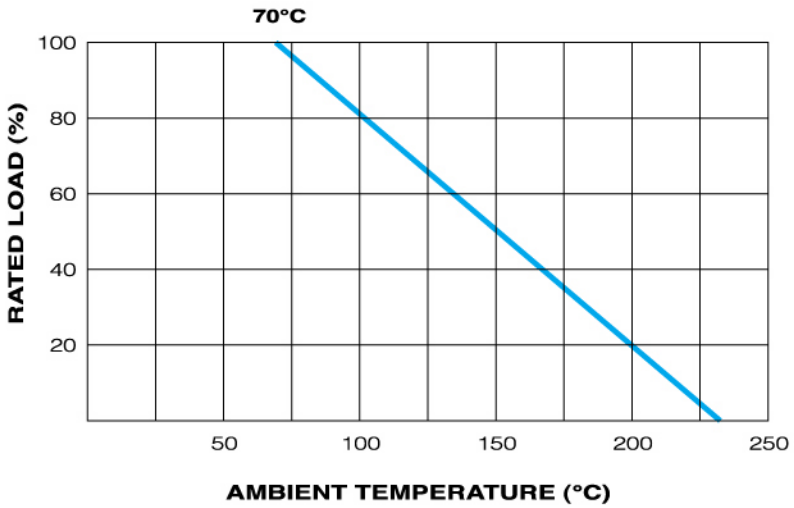


FIG.2 HOT-SPOT TEMPERATURE