

Metal Film Resistor - MF Series

INTRODUCTION

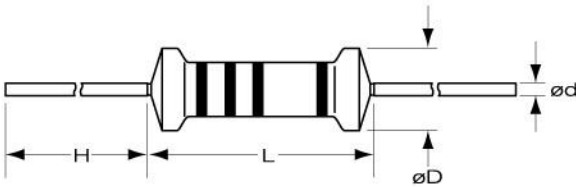
The MF series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

±5ppm or ±10ppm Mainly used in the industries of precision instruments \ electronic measurements \ For military or national defenses and other electronic equipments.

FEATURES

- MIL-R-1059F.
- High precision / Low temperature coefficient
- Resistance Tolerance :
±0.1%, ±0.25%, ±0.5%, ±1%, ±0.05%, ±0.01%
- T.C.R. :
± 5ppm, ±10ppm, ±15ppm, ±25ppm, ±50ppm, ±100ppm

DIMENSIONS:



STYLE	POWER RATING (Watt)	DIMENSION (mm)				VALUE RANGE
		L	øD	H	ød	
MF	1/6W; 1/8W, 1/4WS	3.2±0.2	1.8±0.3	28±2	0.45±0.05	1Ω~10M
MF	1/4W, 1/2WS	6.0±0.2	2.3±0.3	26.5±2	0.50±0.05	1Ω~10M
MF	1/2W, 1WS	9.0±0.5	3.2±0.3	26±2	0.58±0.05	1Ω~10M
MF	1W, 2WS	11.0±0.5	4.5±0.5	35±2	0.68±0.05	1Ω~10M
MF	2W, 3WS	15.0±0.5	5.0±0.5	32±2	0.78±0.05	1Ω~10M
MF	3W, 5WS	17.0±0.5	6.0±0.5	32±2	0.78±0.05	1Ω~10M
MF	5W	25.0±1	8.0±0.5	35±3	0.78±0.05	1Ω~10M

ELECTRICAL CHARACTERISTICS:

Power Rating 70°C (Style)	MF 1/6;1/8W,1/4WS	MF 1/4W, 1/2WS	MF 1/2W, 1WS	MF 1W, 2WS	MF 2W, 3WS,5W,5WS
Operating Temp. Range	-55°C ~ +155°C				
Max. Working Voltage	200V	250V	350V	500V	500V
Max. Overload Voltage	400V	600V	700V	1000V	1000V
Dielectric Withstanding Voltage (AC)	300V	500V	700V	1000V	1000V
Max. Intermittence Overload Voltage	400V	600V	700V	1000V	1000V
Value Range ±0.25%, ±0.5%, ±1%, ±0.1%	10Ω~1MΩ				
Value Range ±0.05%, ±0.1%	100Ω~100KΩ				
Temp. Coefficient (by Type)	± 5 ppm, ±10ppm, ±15ppm, ±25ppm, ±50ppm, ±100ppm				

FIG.1 DERATING CURVE

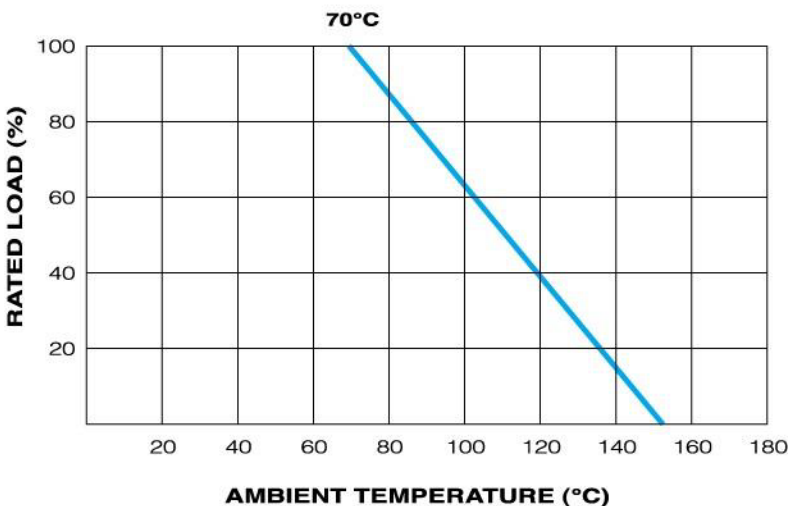


FIG.2 HOT-SPOT TEMPERATURE

