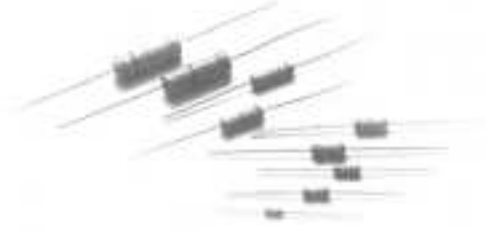


# Metal Oxide Film Resistors

JARO COMPONENTS, INC. LEADED RESISTORS

## FLAME-PROOF TYPE

Normal & Miniature Style [MOF Series]



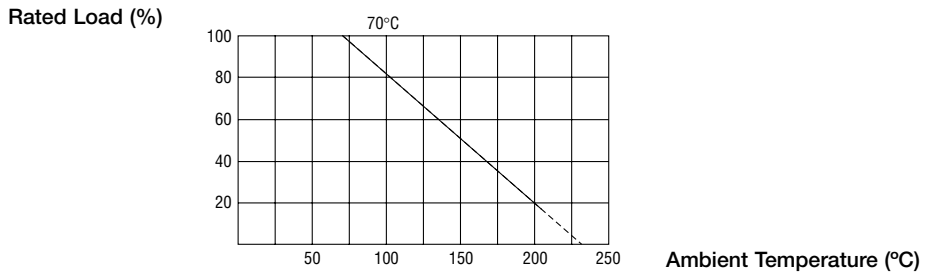
### FEATURES

- Low Cost, Prompt Delivery
- High Power-to-Size Ratio for Significant Space Savings
- Complete Flameproof Construction-UL 1412
- High Surge/Overload Capability
- Non-Inductive Design
- Wide Resistance Range: 1Ω~1MΩ
- Resistance Tolerance: ±5%

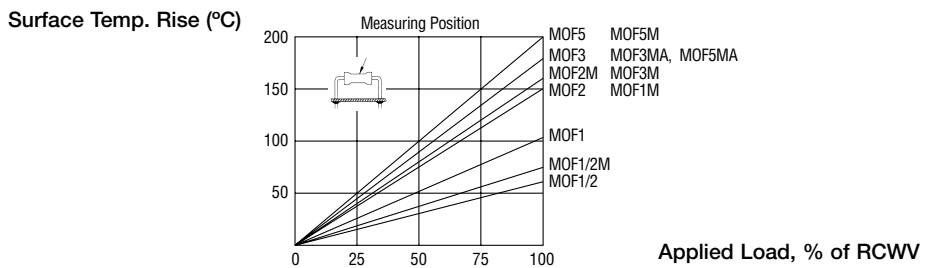
### INTRODUCTION

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 Oxides also can replace many low power General Purpose wirewound applications, saving both money and time, with shorter delivery cycles. The normal style & the miniature style of MOF series are coated with layers of gray and pink colors flame-proof lacquer respectively.

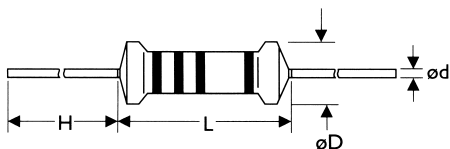
### DERATING CURVE



### HOT-SPOT TEMPERATURE



### DIMENSIONS



Unit : mm

STYLE		DIMENSION			
Normal	Miniature	L	øD	H	ød
-	MOF1/2M	6.3±0.5	2.3±0.3	28±2.0	0.6±0.05
MOF1/2	-	9.0±0.5	3.2±0.3	26±2.0	0.6±0.05
-	MOF1M	9.0±0.5	3.2±0.3	26±2.0	0.6±0.05
MOF1	MOF2M	11.5±1.0	4.5±0.5	35±2.0	0.8±0.05
MOF2	MOF3M	15.5±1.0	5.0±0.5	33±2.0	0.8±0.05
MOF5A	MOF3MA	17.5±1.0	6.5±1.0	33±2.0	0.8±0.05
MOF3	MOF5M	24.5±1.0	8.5±1.0	38±2.0	0.8±0.05
MOF5	-	24.5±1.0	8.5±1.0	38±2.0	0.8±0.05

# MOF Series

## ELECTRICAL CHARACTERISTICS

STYLE	MOF1/2M	MOF1/2	MOF1M	MOF1	MOF2M	MOF2	MOF3M/ MOF3MA	MOF3	MOF5M/ MOF5MA	MOF5
Power Rating at 70°C	1/2W		1W		2W		3W		5W	
Operating Temp. Range	-55°C to +155°C									
Maximum Working Voltage	250V	250V	300V	350V	350V	350V	400V/450V	500V	500V/600V	750V
Maximum Overload Voltage	400V	400V	500V	600V	600V	600V	700V/700V	800V	800V/800V	1000V
Dielectric Withstanding Voltage	350V	350V	400V	500V	500V	500V	600/600V	700V	700/800V	800V
Value Range ±5%	1Ω-510KΩ									
Temperature Coefficient	±300ppm/°C									

\* Standard resistance is 1Ω-510KΩ, below or over this resistance on request.

## ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRaise
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 Seconds ±(1%+0.05Ω)
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Seconds by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55°C to +155°C ±200ppm/°C
Insulation Resistance	JIS-C-5202 5.6	in V-Block >1000MΩ
Solderability	JIS-C-5202 6.5	235°C for 5±0.5 Seconds 95% Min. Coverage
Resistance to Solvent	JIS-C-5202 6.9	Trichroethane for 1 Min. with Ultrasonic No Deterioration of Coatings and Markings
Terminal Strength	Direct load for 10 Sec. in The Direction of The Terminal Leads ≥2.5kg (24.5N)	
Pulse Overload	JIS-C-5202 5.8	4 Times RCWV 10000 Cycles (1 Sec. on , 25 Sec. off) ±(2%+0.05Ω)
Load Life in Humidity	JIS-C-5202 7.9	40±2°C, 90-95% RH at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off) ±(5%+0.05Ω)
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off) ±(5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4	-65°C·Room Temp.·150°C·Room Temp. for 5 Cycles ±(1%+0.05Ω)
Resistance to Soldering Heat	JIS-C-5202 6.4	350°C±10°C for 3±0.5 Seconds ±(1%+0.05Ω)

\* Rated Continuous Working Voltage (RCWV)=√Power Rating x Resistance Value