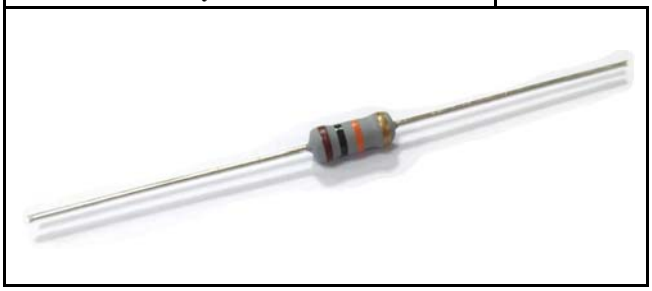
Metal Oxide Resistors - MOF/MOF-S Series

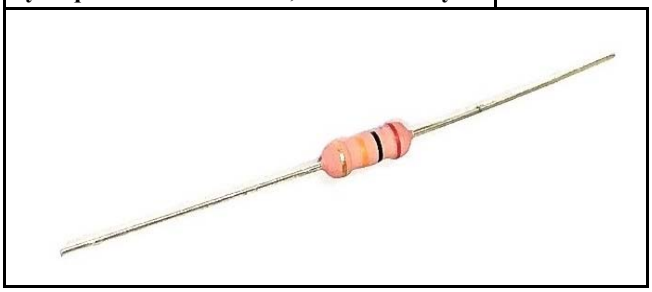
FEATURES

- Power rating: 1/4W to 5W at 70°C
- Superior electrical performance-commonly used
- in application with high endurance demands.
- Standard tolerance: ±5% (consult factory for 1%)
- Standard range: 10R-1M in E24 series
- Color band marking, gray body color
- Flameproof coating
- Mini size available (As MOF-S type)
- Operating temperature : -55ºC ~+200ºC

STANDARD-Gray silicone



By request - Pink silicone , Mini-size only



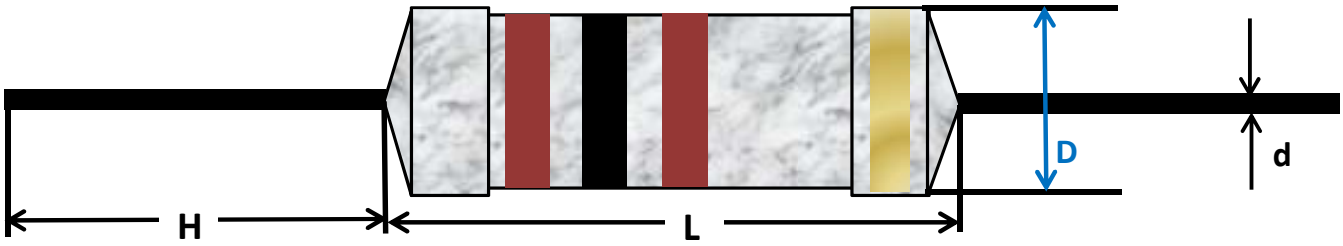
MATERIAL

- Element: deposited oxide film
- Core: high purity ceramic Al_2O_3
- Termination: standard solder-plated copper lead
- Coating: gray (pink is available in Mini-size by request) silicone

HF

RoHS Compliant

GENERAL SPECIFICATION

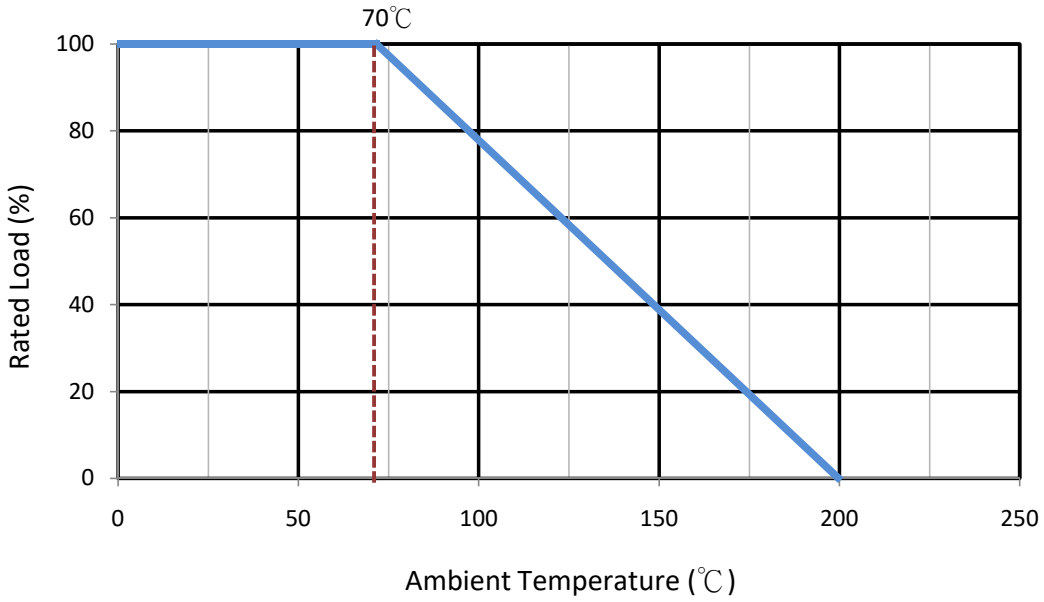


TYPE	DIMENSION (mm)				POWER	MAXIMUM VOLTAGE		RESISTANCE
	L	D	H	d ± 0.05	RATING	WORKING	OVERLOAD	RANGE ±5%
MOF1/8W-1/4WS	3.2±0.2	1.6±0.2	27 ±3.0	0.45	1/8W-1/4W	200V	400V	0Ω1~1MΩ
MOF1/4W-1/2WS	6.0±1.0	2.3±0.5	27 ±2.0	0.56	1/4W-1/2W	250V	500V	0Ω1~1MΩ
MOF1/2W-1WS	9.0±1.0	3.0±0.5	26 ±2.0	0.59	1/2W-1W	350V	700V	0Ω1~1MΩ
MOF1W-2WS	11.0±2.0	4.0±1.0	35 ±3.0	0.80	1W-2W	500V	1000V	0Ω1~1MΩ
MOF2W-3WS	15.0±2.0	5.0±1.0	35 ±3.0	0.80	2W-3W	500V	1000V	0Ω1~1MΩ
MOF 3W-5WS	17.0±2.0	6.0±1.0	34 ±3.0	0.80	3W-5W	500V	1000V	0Ω1~1MΩ
MOF 5W	24.0±2.0	8.0±1.0	35 ±2.0	0.80	5W	750V	1000V	1Ω~1MΩ

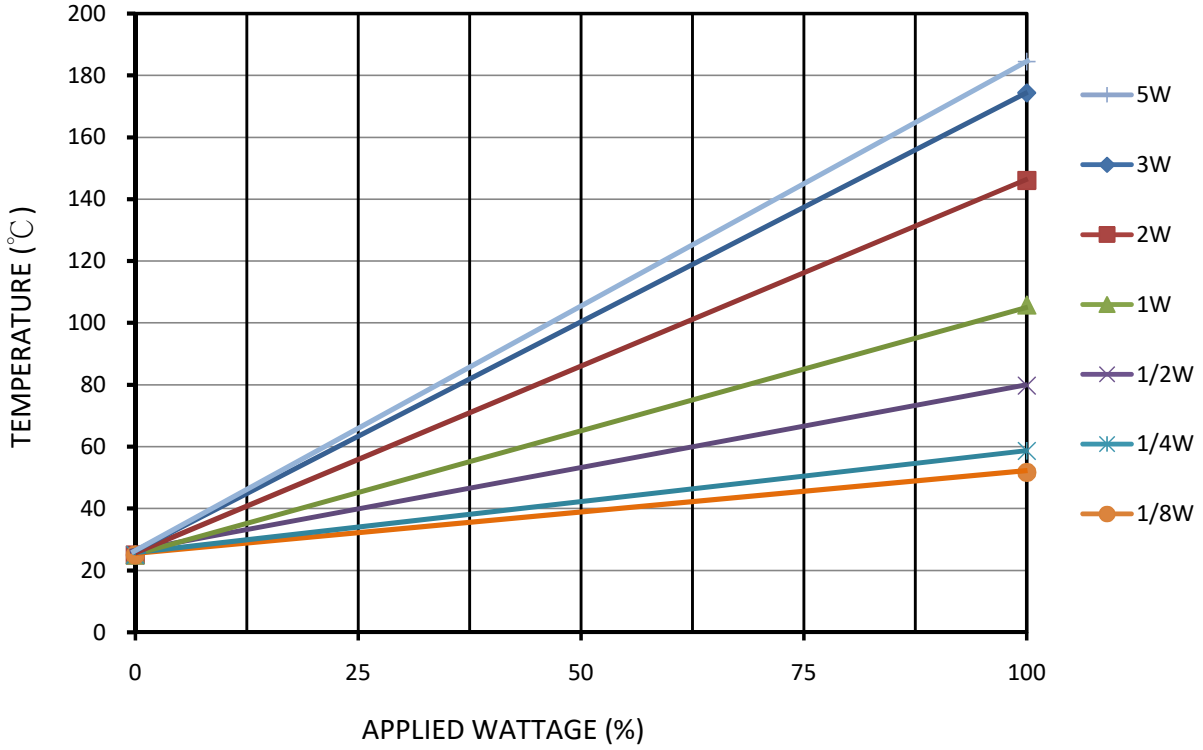
* Maximum Working Voltage determined by $E = \sqrt{(PxR)}$, where E should not exceed value listed in column above
Maximum Overload Voltage equals to 2.5xE, but should not exceed value listed in column above

** Resistance 10R~10K beyond is metal fim , consult factory for resistance not included

DERATING CURVE



SURFACE TEMPERATURE



CHARACTERISTIC

TEST	TEST METHOD	APPRAISE
Temperature Coefficient	IEC 60115-1 4.8 -55℃~155℃	±200ppm max.
Load Life (1000 hours)	IEC 60115-1 4.25 70±2℃ at RCWV for 1000 hours (1.5 Hr. on , 0.5 Hr. off)	<±1% typical, ±3% max
Shorttime Overload	IEC 60115-1 4.13 2.5 times rated power for 5 sec.	±0.5% Max.
Temperature Cycling	IEC 60115-1 4.19 -55℃ → room temp. → +155℃ → room temp. (5 cycles)	±1.0% Max.
Moisture Resistance	IEC 60115-1 4.24 40±2℃ , 90-95% RH for 56 days , with 0.1 times RCWV	±1.0% Max.
Insulation Resistance	IEC 60115-1 4.6 in V-block for 60sec. , test voltage by type	100MΩ Min.
Effect of Soldering	IEC 60115-1 4.18 260±3℃ for 10±1 sec. immersed to point 3±0.5mm from the body	±0.5% Max.

* Total maximum resistance change is ΔR+0.01R

HOW TO ORDER :

SERIES	WATTAGE	RESISTANCE	TOLERANCE	PACKAGE
MOF	1/4W 1/2WS : 3W 5W	0R1=0.1Ω 10R=10Ω 1K=1KΩ	5%	T=TAPING BOX R=TAPING REEL B=BULK

PACKAGE STANDARD PACKAGE QUANTITY :

TYPE	T=TAPING BOX	R=TAPING REEL	B=BULK
1/8W-1/4WS	5000	5000	1000 pcs/bag , 10kpcs/box
1/4W-1/2WS	5000	5000	1000 pcs/bag , 10kpcs/box
1/2W-1WS	2000	2500	500 pcs/bag , 5kpcs/box
1W-2WS	1000	2000	500 pcs/bag , 2kpcs/box
2W-3WS	1000	1000	500 pcs/bag , 1kpcs/box
3W-5WS	500	1000	500 pcs/bag , 1kpcs/box
5W	250	500	