

Metal Oxide Resistors (mini-size)

MOF1/2WS TO 5WS



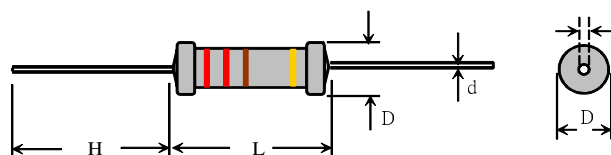
FEATURES

- Save space and money and also replace general purpose wirewound resistor
- Superior electrical performance-commonly used in application with high endurance demands.
- Standard tolerance: $\pm 5\%$ (available 1% , 2%)
- Standard value: 0.5R-1Meg in E24 series
- Color band marking, grey body color
- Flameproof coating
- Operating temperature : $-55^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIAL

- Element: deposited oxide film
- Core: high purity ceramic Al_2O_3
- Termination: standard solder-plated cooper lead
- Coating: Silicone

DIMENSION



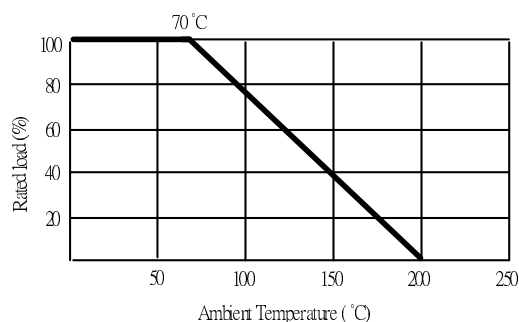
GENERAL SPECIFICATION

TYPE	DIMENSION (mm)				POWER RATING	MAXIMUM VOLTAGE	RESISTANCE RANGE $\pm 5\%$
	L	D	H	$d \pm 0.05$		WORKING* OVERLOAD**	
MOF-1/2WS	6.0 ± 0.5	2.3 ± 0.3	27 ± 3	0.55	1/2W	250V 400V	$0.5 \Omega \sim 1\text{M} \Omega$
MOF-1WS	9.0 ± 0.5	3.0 ± 0.5	27 ± 3	0.70	1W	300V 500V	$0.5 \Omega \sim 1\text{M} \Omega$
MOF-2WS	11 ± 1.0	4.0 ± 0.5	33 ± 3	0.80	2W	350V 600V	$0.5 \Omega \sim 1\text{M} \Omega$
MOF-3WS	15 ± 1.0	5.0 ± 0.5	33 ± 3	0.80	3W	350V 600V	$0.5 \Omega \sim 1\text{M} \Omega$
MOF-5WS	17 ± 1.0	6.0 ± 1.0	33 ± 3	0.80	5W	500V 800V	$0.5 \Omega \sim 1\text{M} \Omega$

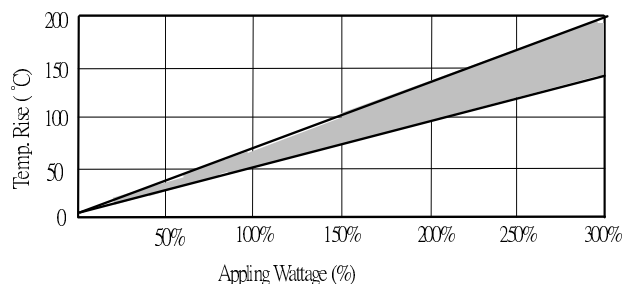
* Maximum Working Voltage determined by $E = \sqrt{P \times R}$, where E should not exceed value listed in column above.

** Maximum Overload Voltage equals to $2.5 \times E$, but should not exceed value listed in column above

DERATING CURVE



TEMPERATURE RISE



CHARACTERISTIC

Temperature Coefficient	± 300 ppm max.
Insulation Resistance	1,000M Ω Min.
Load Life (1000 hours)	$\pm 5.0\% + 0.05 \Omega$
Shorttime Overload	$\pm 2.0\% + 0.05 \Omega$
Temperature Cycling	$\pm 1.0\% + 0.05 \Omega$
Load Life in Humidity	$\pm 5.0\% + 0.05 \Omega$
Puse Overload	$\pm 2.0\% + 0.05 \Omega$
Resistance to Soldering Heat	$\pm 1.0\% + 0.05 \Omega$
Teminal Strength	2.5kg Min.

HOW TO ORDER :

MOF1WS	OR5	J	T
Type/Power/size	Resistance Value	Tolerance	Package
MOF1/2WS	OR5 = 0.5 Ω	J = $\pm 5\%$	B=axial bulk
MOF1WS	10R = 10 Ω	D = $\pm 2\%$	T=tape/box
MOF2WS	1K2 = 1.2K Ω	F = $\pm 1\%$	R=tape/ reel
MOF3WS	1M = 1M Ω		Lead-Forming
MOF5WS			M
			MK
			MB
			FK