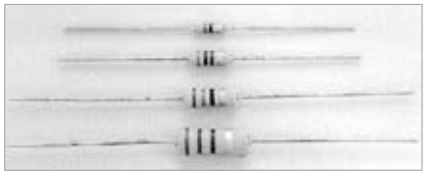
Miniature Paint Insulated Metal Oxide Film Fixed Resistors

■Feature

Model No. "MOS" of metal oxide film resistor is the miniaturized high power dissipation.
The coating is flame proof (Silicon resin).
It is equivalent to UL94V-0.



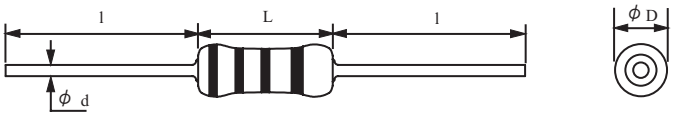
■Power Rating

Model No.	Power Rating	Max. Working Voltage	Max. Overload Voltage	Resistance Range	Tolerance	T.C.R.	Rating Ambient Temp.	Operating Temp. Range
	[W]	[V]	[V]	[Ω]	[%]	[ppm/℃]	[℃]	[℃]
MOS1/2W	0.5	250	400	0.1～10k	±2 ±5 ±10 (±5,±10,for less than 0.2Ω)	±300	+70	-55～+200
MOS 1W	1.0	350	600	0.1～100k				
MOS 2W	2.0	350	600	0.1～100k				
MOS 3W	3.0	350	600	0.1～100k				

☆Rated Voltage: $\sqrt{P \cdot R}$ (P=Rated power (W), R=Nominal resistance(Ω)) Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

☆Metal plated film is used for the low resistance value.

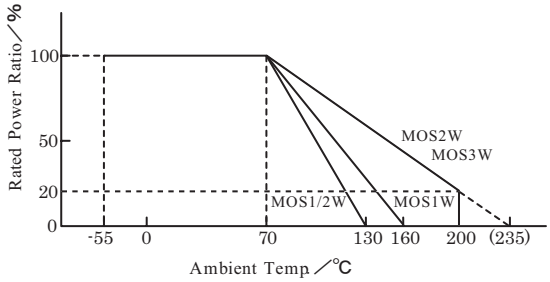
■Dimensions



Model No.	Dimensions(mm)			
	L	D	l	d
MOS1/2W	6.5±1.0	2.2±0.5	30±3	0.6 $^{+0.1}_{-0.05}$
MOS 1W	9.0±1.0	3.5±1.0	30±3	0.65±0.1 (0.8±0.1)
MOS 2W	12.0±1.5	4.0±1.0	38±3	0.8±0.1
MOS 3W	15.0±1.5	5.5±1.0	38±3	0.8±0.1

*Standard lead diameter of MOS1W is 0.65mm.

■Derating Curve



■Model Designation

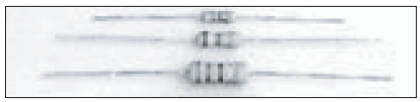
MOS ① 1W ② 102 ③ J ④ TU ⑤

		Symbol	Meaning
①	Model No.	MOS	MINIATURE PAINT INSULATED FIXED METAL OXIDE FILM RESISTORS, FLAME PROOF
②	Power Rating	1/2W	0.5W
		1W	1.0W
		2W	2.0W
		3W	3.0W
③	Resistance	102	3 Digit E-24 Series
		For detail description about resistance marking, please refer to "General Specifications."	
④	Tolerance	G	± 2.0%
		J	± 5.0%
		K	±10.0%
⑤	Forming Packaging	NoMarking	Bulk
		TU,TP	Axial Taping
		RP,RY	Radial Taping
		L,LS	Stand-off forming
		For detail description about forming and taping specification, please refer to Taping Specification page in "General Specifications."	

"Type"indicates the product No., which is not the trademark.

Paint Insulated Metal Oxide Film Fixed Resistors

■Feature



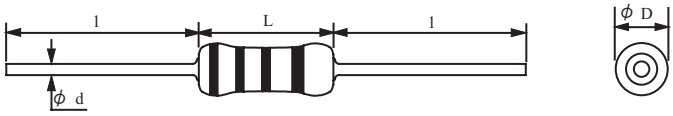
Model No. "MOF" of metal oxide film resistor is power dissipation.
The coating is flame proof (Silicon resin).
It is equivalent to UL94V-0.

■Power Rating

Model No.	Power Rating	Max. Overload Voltage	Max. Overload Voltage	Resistance Range	Tolerance	T.C.R.	Rating Ambient Temp.	Operating Temp. Range
	[W]	[V]	[V]	[Ω]	[%]	[ppm/℃]	[℃]	[℃]
MOF1/2W	0.5	250	400	10～47k	±2 ±5	±350	+70	-55～+200
MOF 1W	1.0	350	600	10～68k				
MOF 2W	2.0	350	600	10～100k				
MSF1/2W	0.5	—	—	0.2～9.1	±2 ±5	±350 (±500 for less than 1Ω)		
MSF 1W	1.0	—	—	0.2～9.1				
MSF 2W	2.0	—	—	0.2～9.1				

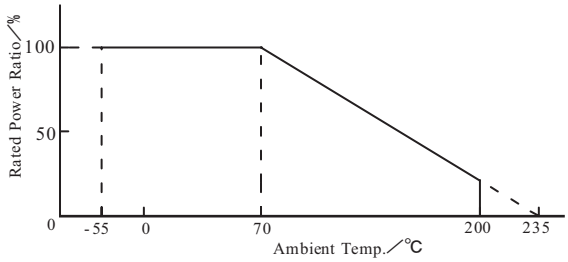
☆Rated Voltage: $\sqrt{P \cdot R}$ (P=Rated power (W), R=Nominal resistance(Ω)) Rated Voltage shall be either the calculated rated voltage or Max. Working Voltage whichever less.

■Dimensions



Model No.	Dimensions(mm)			
	L	D	l	d
MOF(MSF)1/2W	9.0±1.0	3.5±1.0	30±3	0.65±0.1
MOF(MSF) 1W	12.0±1.5	4.5±1.0	38±3	0.8±0.1
MOF(MSF) 2W	16.0±1.5	6.0±1.0	38±3	0.8±0.1

■Derating Curve



■Model Designation

MOF ① 1W ② 102 ③ J ④ TU ⑤

		Symbol	Meaning
①	Model No.	MOF	PAINT INSULATED FIXED METAL OXIDE FILM RESISTORS, FLAME PROOF
		MSF	PAINT INSULATED FIXED METAL PLATED FILM RESISTORS, FLAME PROOF
②	Power Rating	1/2W	0.5W
		1W	1.0W
		2W	2.0W

③	Resistance	102	3 digit E-24 Series
		For detail description about resistance marking, please refer to "General Specifications."	
④	Tolerance	G	± 2.0%
		J	± 5.0%
⑤	Forming, Packaging	No Marking	Bulk
		TU,TP	Axial Taping
		L	Stand-off forming
		For detail description about forming and taping specification, please refer to Taping Specification page in "General Specifications."	