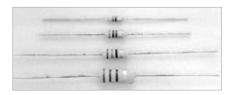


Miniature Paint Insulated Metal Oxide Film Fixed Resistors

■ 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.



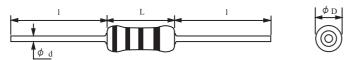
■Power Rating

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/°C]	[°C]	[°C]
MOS1/2W	0.5	250	400	0.1 ∼ 10k	±2			
MOS 1 W	1.0	350	600	0.1 ~ 100k	±5 ±10	+300	+70	-55 ~ +200
MOS 2W	2.0	350	600	0.1~100k	$(\pm 5,\pm 10,\text{for less})$	<u> </u>	+70	-33.4+200
MOS 3 W	3.0	350	600	0.1 ∼ 100k	than 0.2Ω)			

 \Rightarrow 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



Madal Na	Dimensions(mm)					
Model No.	L	D	1	d		
MOS1/2W	6.5 ± 1.0	2.2 ± 0.5	30 <u>±</u> 3	0.6 +0.1 -0.05		
MOS 1 W	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 <u>±</u> 3	0.8 ± 0.1		
MOS 3W	15.0 ± 1.5	5.5 ± 1.0	38 <u>±</u> 3	0.8 ± 0.1		

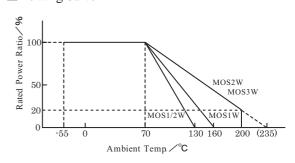
^{*}Standard lead diameter of MOS1W is 0.65mm.

■ Model Designation

MOS	<u>1W</u>	102	<u>J</u>	<u>TU</u>
1	2	3	4	(5)

		Symbol	Meaning		
			MINIAT URE PAINT		
1	Model No	MOS	INSULATED FIXED METAL		
U	Wiodel No.	WOS	OXIDE FILM RESISTORS,		
			FLAME PROOF		
		1/2W	0.5W		
2	Power Rating	1 W	1.0W		
	1 Ower Rating	2W	2.0W		
		3W	3.0W		
		102	3 Digit		
3	Resistance	102	E-24 Series		
3	resistance	For detail description about resistance marking, please refer to "General Specifications."			
		G	± 2.0%		
	l				
4	Tolerance	J	± 5.0%		
4	Tolerance	J K			
4	Tolerance		± 5.0%		
4		K	± 5.0% ±10.0%		
	Forming	K NoMarking	± 5.0% ±10.0% Bulk		
(4)(5)		K NoMarking TU,TP	± 5.0% ±10.0% Bulk Axial Taping		

■ Derating Curve



HDK>

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.

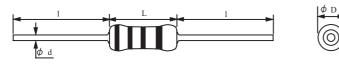


■Power Rating

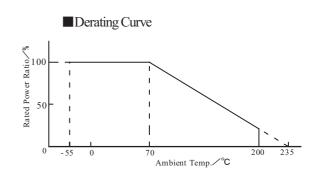
	Power	Max.	Max.				Rating	Operating
Model No.	Rating	Overload	Overload	Resistance Range	Tolerance	T.C.R.	Ambient	Temp.
11104011101	Kating	Voltage	Voltage				Temp.	Range
	[W]	[V]	[V]	[Ω]	[%]	[ppm/°C]	[°C]	[°C]
MOF1/2W	0.5	250	400	10 ∼ 47k				
MOF 1W	1.0	350	600	10 ∼ 68k	±2	±350		
MOF 2W	2.0	350	600	10 ∼ 100k	±5		+70	-55 ~ +200
MSF1/2W	0.5	_	_	0.2~9.1	±2	± 35 0	+/0	-55~+200
MSF 1W	1.0		ı	0.2~9.1	±5	(± 50 0 f or		
MSF 2W	2.0	_	_	0.2~9.1	7	less than 1Ω)		

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

■ Dimensions



Model No.	Dimensions(mm)					
Model No.	L	D	1	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		



■ Model Designation

 $\begin{array}{c|cccc} \underline{MOF} & \underline{1W} & \underline{102} & \underline{J} & \underline{TU} \\ \hline 1 & 2 & \overline{3} & 4 & \overline{5} \end{array}$

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

3	Resistance	102	3 digit E-24 Series	
9	Resistance	For detail description about resistance marking, please refer to "General Specifications."		
4)	Tolerance	G	± 2.0%	
4	1 010141100	J	± 5.0%	
		No Marking	Bulk	
		TU,TP	Axial Taping	
	Forming,	L	Stand-off forming	
5	Packaging	For detail description about forming and taping specification, please refer to Taping Specificationage in "General Specifications."		