



# Resistors & Potentiometers

## 3W Metal Oxide Film Resistor

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)

### INTRODUCTION

Through the developments of electronic equipments and computerized devices, it has been urging all kinds of components to minimization, light-weight, durability, high stability and reliability. To keep quality stable under high temperature operation, the per unit film area shall take large load. Metal Oxide Film resistors is the one that can satisfy the requirements

MOS: Small-sized metal oxide film resistors, using selected ceramic, with high performance which is suitable for compact sets. .

### FEATURES

- Small in size comparatively
- Electrical and mechanical stability and high reliability.
- Nonflame painting, "Solvent" proof, resistant to heat & humidity.
- Annual shift is low for the strengthened metal oxide film.
- Low noise: can produce high resistance value which wire wound resistors can not reach

### SPECIFICATION

### DIMENSION

TYPE		MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE	TYPE		DIMENSION(mm)			
MO	MOS			±5%(J)	MO	MOS	L±1	D±0.5	d±0.1	H(MIN)
3W	3W	500V	1000V	10-1M	3W	5W	18	6.5	0.75	27

### CHARACTERISTICS

REQUIRERISTICS	PERFORMANCE	TEST METHOD	
		JIS-C-5202	MIL-STD-202
Operating Temp. Range	-55°C~+155°C	—	—
Temp. Coefficient(ppm/°C)	± 300	5.2	METHOD 304
Short Time Overload	$\Delta R_{max} \leq \pm(1\% + 0.050)$	5.5-A	—
Resistance to Soldering Heat	$\Delta R_{max} \leq \pm(1\% + 0.050)$	6.4.350°C3 Sec	METHOD 304
Temp. Cycling	$\Delta R_{max} \leq \pm(1\% + 0.050)$	7.4.-55°C/85°C.5 cycles	METHOD 210
Moisture Resistance	$\Delta R_{max} \leq \pm 5\%$	7.9 95%RH on-off 1.000 hr	METHOD 107
Load Life	$\Delta R_{max} \leq \pm 5\%$	7.10 70°C on-off 1.000 hr	METHOD 106
Dielectric Withstanding Voltage	$\Delta R_{max} \leq \pm(0.5\% + 0.050)$	5.7-A	METHOD 108
Insulation Resistance	$> 10^4 MO$	5.6-A	METHOD 301
Non-Combustibility	The resistor shall withstand Overload test in accordance with Article UL 492.2 13 without producing a fire hazard.		

Part No.	Product No.	Description	Resistance(Ω)	Tolerance(±)	Power
15134	33KΩ/3W	Metal Oxide Film Resistor	33K ohm	+/-5%	3W
26224	KNP-3W-0.01Ω	Metal Oxide Film Resistor	0.01 ohm	+/-5%	3W
34767	KNP-3W-1Ω	Metal Oxide Film Resistor	1 ohm	+/-5%	3W
23296	R03W33K0JT	Metal Oxide Film Resistor	33K ohm	+/-5%	3W
17958	R03W510KJT	Metal Oxide Film Resistor	510K ohm	+/-5%	3W
17432	RO3W0R50FT	Metal Oxide Film Resistor	0.5 ohm	+/-1%	3W
26495	RO3W120EJT	Metal Oxide Film Resistor	120 ohm	+/-5%	3W
21945	RO3W18E0JT	Metal Oxide Film Resistor	18ohm	45% +/-5%	3W
17431	RO3W1K50FT	Metal Oxide Film Resistor	1.5K ohm	+/-1%	3W
39537	RO3W4E70JT	Metal Oxide Film Resistor	4.7 ohm	+/-5%	3W
23485	RO3W68EJT	Metal Oxide Film Resistor	68 ohm	+/-5%	3W

## 5W Metal Oxide Film Resistor

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MO	MOS			±5%(J)	MO	MOS	L±1	D±0.5	d±0.1	H(MIN)
5W	5W	500V	1000V	100-1M	5W	7W	25	8.5	0.75	27

