



Resistors & Potentiometers

1W Carbon Film Resistors

Detailed product specifications are available on: us.100y.com.tw



INTRODUCTION

The resistance temperature coefficient of carbon film resistors is relatively high. Their resistance value changes inversely with temperature. But, as they are big in volume, causing quick dissipation of heat and low temperature rise, they are good enough in quality stability and reliability. And are therefore popularly used in consumer electronic appliances. In addition to the above general features. Our CR series carbon film fixed resistors have the following features in particular.

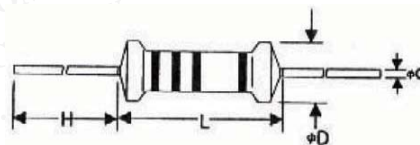
FEATURES

- Automated mass production, low prices.
- Exception long-term stability.
- Standard tolerance: $\pm 2\%$, $\pm 5\%$.
- Variety of packaging-bulk, and taped, cut and formed supplied.

SPECIFICATION

DIMENSION

TYPE	CR	CRS	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE		TYPE		DIMENSION(mm)			
					$\pm 2\%$ (G)	$\pm 5\%$ (J)	CR	CRS	L ± 1	D ± 0.5	H ± 3	d ± 0.05
1W	1W	500V	1000V	1R~10M	1R~10M	1W	2W	11	4.5	30	0.8	



CHARACTERISTICS

REQUIREMENTS	PERFORMANCE	Test method	
		JIS C 5202	MIL-STD-202
Operating Temp. Range	-55°C ~ +155°C	—	—
Dielectric Withstanding Voltage	No evidence of flashover or breakdown	5. 7-A	Method 301
Resistance to solvents	Permanent Marking No physical or electrical damage or deterioration	—	Method 215
Short Time Overload	$\Delta R_{max} \leq \pm (1\% + 0.05\Omega)$	5. 5-A	—
Resistance to Soldering Heat	$\Delta R_{max} \leq \pm (1\% + 0.05\Omega)$	6. 4-350°C 3 sec	Method 210
Temperature Cycling	$\Delta R_{max} \leq \pm (0.5\% + 0.05\Omega)$	7. 4-55°C 85°C	Method 107
Vibration	$\Delta R_{max} \leq \pm (0.5\% + 0.05\Omega)$	6. 3. 3-A	Method 204
Moisture Resistance	R > 100K Ω	$\Delta R_{max} \leq \pm 5\%$	
	R \leq 100K Ω	$\Delta R_{max} \leq \pm (3\% + 0.05\Omega)$	
Load Life	R > 100K Ω	$\Delta R_{max} \leq \pm 3\%$	
	R \leq 100K Ω	$\Delta R_{max} \leq \pm (2\% + 0.05\Omega)$	
		7. 9. 40°C 90-95% RH. 1000hrs	Method 106
		7. 10 70°C 1000hrs	Method 108

Part No.	Product No.	Description	Resistance data(Ω)	Tolerance(\pm)	Power(W)
29970	RC1W100EJT	1W Carbon Film Resistors	100 ohm	$\pm 5\%$	1W
24651	RC1W150EJT	1W Carbon Film Resistors	150 ohm	$\pm 5\%$	1W
40864	RC1W47E0JT	1W Carbon Film Resistors	47 Ω	$\pm 5\%$	1W

Metal Film Resistors 1/8W Metal Film Resistors

Detailed product specifications are available on: us.100y.com.tw



INTRODUCTION

MF series is a group of metal film resistors applying high Aluminum content base material vacuum sputtered by Ni-Cr alloy and excellent heat and wet-proof special resin for protective coating. Those resistors are manufactured through integrated automatic production system and then have good stable and uniform property.

Furthermore, they show excellent performance regardless open in air.

FEATURES

- High stability.
- Low noise, Low temperature coefficient.
- Precision characteristics.
- Variety of packaging-bulk, and taped, cut and formed supplied.

SPECIFICATION

DIMENSION

TYPE	MF	MFS	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE		TYPE		DIMENSION(mm)			
					$\pm 2\%$ (G)	$\pm 5\%$ (J)	MF	MFS	L ± 1	D ± 0.5	H ± 3	d ± 0.05
1/8W	—	—	200V	400V	10R~1M	10R~1M	1/8W	1/4W	3.5	1.8	28	0.45

CHARACTERISTICS

CHARACTERISTIC	SPECIFICATION	TEST METHOD
DC RESISTANCE	Within specified tolerance	MIL-STD-202 Method 303
TEMPERATURE COEFFICIENT	As buyer requested $\pm 10\text{ppm}/^\circ\text{C}$ $\pm 50\text{ppm}/^\circ\text{C}$ $\pm 10\text{ppm}/^\circ\text{C}$ $\pm 50\text{ppm}/^\circ\text{C}$	MIL-STD-202 Method 304
DIELECTRIC STRENGTH	No flashover or damage	MIL-STD-202 Method 301
INSULATION RESISTANCE	At least 1,000M Ω	MIL-STD-202 Method 302
CURRENT NOISE TEST	below 10K; below 0.05 μ V/V 10K; ~below 0.1 μ V/V below 1M7 below 0.2 μ V/V	MIL-STD-202 Method 308
VIBRATION	ΔR with in $\pm (0.25\% + 0.05\Omega)$	MIL-STD-202 Method 201
TERMINAL STRENGTH	Lead is not break or loose	MIL-STD-202 Method 211
RESISTANCE TO SOLDERING HEAT	ΔR with in $\pm (0.25\% + 0.05\Omega)$	MIL-STD-202 Method 210
SOLDERABILITY	At least 95% coverage	MIL-STD-202 Method 208
THERMAL SHOCK	ΔR with in $\pm (0.5\% + 0.05\Omega)$	MIL-STD-202 Method 107

