



Metal Oxide Film Resistors Type RMO Series

△ Features

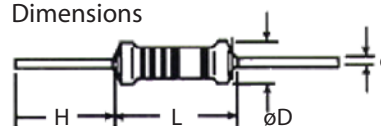
- Special metal oxide film thermochemically burned on
- High heat conductive base material
- Electrical and mechanical stability and high reliability
- Coating and marking resist trichlorethylene freon and clearing agents
- 1/2-3W apply color code

△ Applications

- Easily used for various kinds of medical, telecom and electronic devices and instruments.

△ Specifications

Dimensions

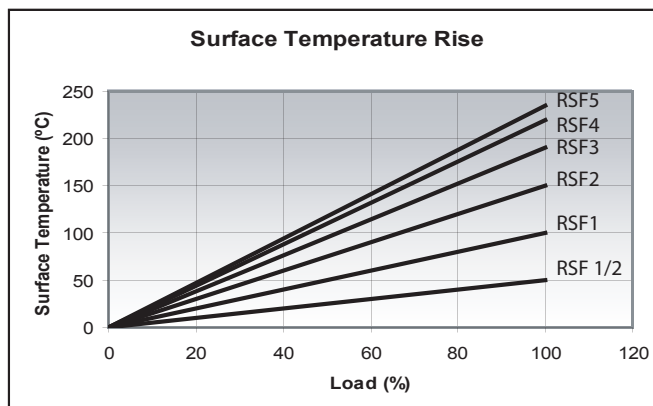
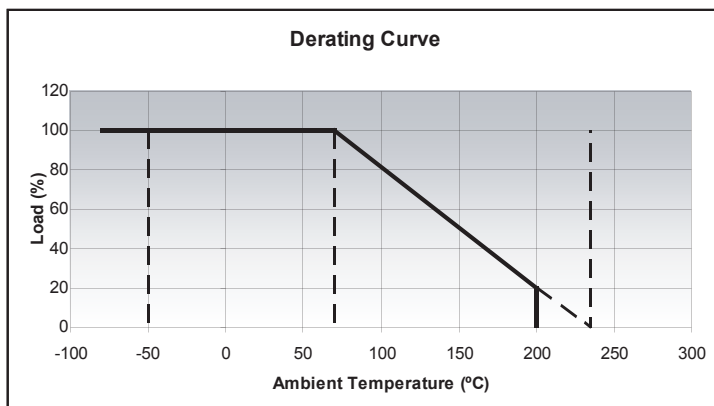


All Liberty Resistors uses the highest quality tin coated copper leads. The leads are rated at the below **MAXIMUM** soldering temperature and soldering time.

MAXIMUM soldering temperature/time
350°C 3sec
235°C 2min

Part	Type	DIMENSION(mm)				Max Working Voltage	Max Overload Voltage	Resistance Range $\pm 5\%$ (J)
		L	D	d	H(MIN)			
RMO-12	1/8W	3.7 $\pm$ 0.4	1.8 $\pm$ 0.2	0.46 $\pm$ 0.02	27	200V	400V	0.1 Ω -1M Ω
RMO-25	1/4W	6.8 $\pm$ 0.5	2.5 $\pm$ 0.2	0.58 $\pm$ 0.02	27	250V	500V	0.1 Ω -1M Ω
RMO-51	1/2W	9 $\pm$ 1	3.0 $\pm$ 0.5	0.68 $\pm$ 0.02	25	300V	600V	0.1 Ω -1M Ω
RMO-100	1W	12 $\pm$ 1	4.5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	350V	700V	0.1 Ω -1M Ω
RMO-200	2W	16 $\pm$ 1	5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	350V	700V	0.1 Ω -1M Ω
RMO-300	3W	18 $\pm$ 1	6 $\pm$ 0.5	0.8 $\pm$ 0.03	30	500V	1000V	0.1 Ω -1M Ω
RMO-500	5W	25 $\pm$ 1	8.5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	750V	1000V	0.1 Ω -1M Ω

Part	Small Type	DIMENSION(mm)				Max Working Voltage	Max Overload Voltage	Resistance Range $\pm 5\%$ (J)
		L	D	d	H(MIN)			
RMO-20	1/4WS	3.7 $\pm$ 0.4	1.8 $\pm$ 0.2	0.46 $\pm$ 0.02	27	250V	500V	0.1 Ω -1M Ω
RMO-52	1/2WS	6.8 $\pm$ 0.5	2.5 $\pm$ 0.2	0.58 $\pm$ 0.02	27	300V	600V	0.1 Ω -1M Ω
RMO-101	1WS	9 $\pm$ 1	3.0 $\pm$ 0.5	0.68 $\pm$ 0.02	25	350V	700V	0.1 Ω -1M Ω
RMO-201	2WS	12 $\pm$ 1	4.5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	350V	700V	0.1 Ω -1M Ω
RMO-301	3WS	16 $\pm$ 1	5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	500V	1000V	0.1 Ω -1M Ω
RMO-501	5WS	18 $\pm$ 1	6 $\pm$ 0.5	0.8 $\pm$ 0.03	30	750V	1200V	0.1 Ω -1M Ω
RMO-701	7WS	25 $\pm$ 1	8.5 $\pm$ 0.5	0.8 $\pm$ 0.03	30	800V	1500V	0.1 Ω -1M Ω





Metal Oxide Film Resistors

Type

RMO

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Δ Characteristics

Requirements	Performance	Test Method	
		JIS-C-5202	MIL-STD-202
Operating Temp. Range	$\pm 55^{\circ}\text{C} \sim +155^{\circ}\text{C}$	-	-
Temp. Coefficient (ppm/ $^{\circ}\text{C}$)	$\pm 350^*$	5.2	Method 304
Short Time Overload	$\Delta R_{\text{max}} \leq \pm (1\% 0.05\Omega)$	5.5-A	-
Resistance to Soldering Heat	$\Delta R_{\text{max}} \leq \pm (1\% 0.05\Omega)$	6.4. 350°C 3 Secs.	Method 210
Temp. Cycling	$\Delta R_{\text{max}} \leq \pm (1\% 0.05\Omega)$	7.4 $-55^{\circ}\text{C} / 85^{\circ}\text{C}$, 5 Cycles	Method 107
Moisture Resistance	$\Delta R_{\text{max}} \leq \pm 5\%$	7.9 95%RH On-Off 1,000Hr	Method 106
Load Life	$\Delta R_{\text{max}} \leq \pm 5\%$	7.10 70°C On-Off 1,000Hr	Method 108
Dielectric Withstanding Voltage	$\Delta R_{\text{max}} \leq \pm (0.05\% 0.05\Omega)$	5.7-A	Method 301
Insulation Resistance	$>10000\text{M}\Omega$	5.6-A	-
Non-Combustibility	The resistor shall withstand overload test in accordance with article UL492.2.13 without producing a fire hazard.		

Δ Part Numbering

RMO	25	TR	100	J
Series Code	Power Rating 12=1/8W 16=1/6W 25=1/4W 51=1/2W 100=1W 200=2W 300=3W 500=5W	Packaging TR=Tape Reel	Resistance Code D50=0.50 Ω 1D0=1.0 Ω 100=10 Ω 101=100 Ω 102=1000 Ω 103=10000 Ω 104=100000 Ω 105=1000000 Ω	Tolerance: J = $\pm 5\%$

Fixed Component
Resistors

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