

Metal Flameproof Resistors
Type RFM Series

△ Features

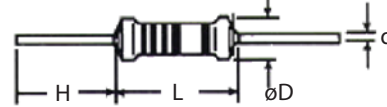
- Nonflammable, high performance metal film fixed resistors
- Flame-overload burning-resisting resin
- Excellent electronic performance

△ Applications

- Suitable for products for high reliability.
- High-precision medical, telecom and consumer electronic equipment

△ Dimensions

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

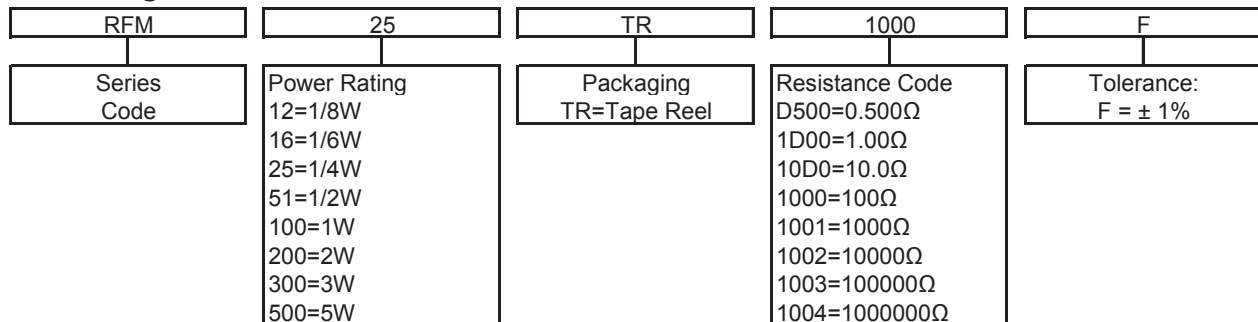
Fixed Component Resistors

Style	Power Rating (W)		Dimensions (mm)				Max Working Voltage		Max Overload Voltage	
	70°C	125 °C	L	D	H (min)	d	70 °C	125 °C	70 °C	125 °C
RFM 25	0.25W	0.1W	6.5±0.5	2.3±0.2	27	0.58±0.2	250	200	500	400
RFM 50	0.5W	0.125W	9.0±1	3.5±0.5	27	0.65±0.2	350	250	700	500

△ Characteristics

Requirements	Characteristics	Test Method
Non-Combustibility	Flame Resistance: Will not burn continuously for more than 5 seconds. Overload Burning: will not fume under the overload of less than 5 times of rated power. The volume of fumes emitted under the overload of more than 5 times of rated power is less than that of stilled fumes emitted by one cigarette. During the test the height of fumes does not go over 3 mm and the burning does not continue for more than 3 seconds.	MIL-STD-202 Method 111 JIS C 5202 7. 12 EIAJ-RC 2658 5. 1

△ Part Numbering





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Δ Characteristics

Characteristic	Specification	Test Method
		All resistance measurements should be performed after stabilization or conditioning periods.
DC Resistance	Within Specified Tolerance	MIL-STD-202 Method 303
Temperature Coefficient	As Buyer Requested ±25ppm/°C ±100ppm/°C ±50ppm/°C ±200ppm/°C	MIL-STD-202 Method 304
Dielectric Strength	No Flashover or Damage	MIL-STD-202 Method 301 1/8W 300V 1 Minute, 1/4 500V 1 Minute 1/8W 300V 1 Minute, 1/4 500V 1 Minute
Insulation Resistance	At Least 1,000MΩ	MIL-STD-202 Method 302 100V 1 Minute
Current Noise Test	Below 10KΩ Below 0.05μV/V 10KΩ - Below 0.1μV/V Below 1M7 Below 0.2μV/V	MIL-STD-202 Method 308
Vibration	ΔR Within ± (0.25% 0.05Ω)	MIL-STD-202 Method 201 10Hz X.Y.Z. 3 Directions 2 Hours each
Torminal Strength	Lead does not break or loosen	MIL-STD-202 Method 211
Resistance to Soldering Heat	ΔR Within ± (0.25% 0.05Ω)	MIL-STD-202 Method 210 350°C, 3 ± 0.05Sec.
Solderability	At Least 95% Coverage	MIL-STD-202 Method 208 230°C, 0.05Sec.
Thermal Shock	ΔR Within ± (0.5% 0.05Ω)	MIL-STD-202 Method 107 -55°C +155°C 5 Cycles
Short Time Overload	ΔR Within ± (0.5% 0.05Ω)	MIL-R-10509 PARA, 4,6,6, 2.5 Times Rated Working Voltage, 5 Secs
Humidity	ΔR Within ± (1% 0.05Ω) No Mechanical Damage	MIL-STD-202 Method 103 40°C, RH95% 500
Low Temperature Operation	ΔR Within ± (0.5% 0.05Ω)	MIL-R-10509 PARA, 4,6,5, Rated Working Voltage, at -65°C 45 Minutes
Load Life	ΔR Within ± (1% 0.05Ω)	MIL-STD-202 Method 108 Rated Working Voltage 1 1/2 Hours on 1/2 Hours Off For Total 1000Hours
Resistance To Solvent	Color Bands Legible No Mechanical Damage	MIL-STD-202 Method 215

Fixed Component Resistors

Δ Current Noise

