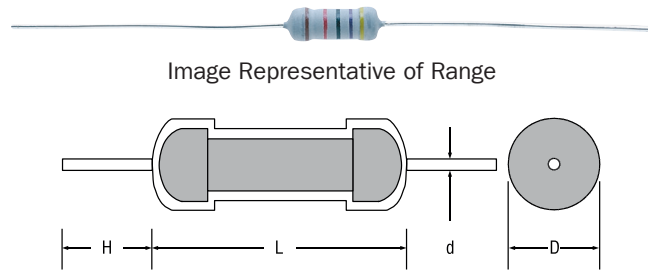


Dimensions (mm)	Value
L	15 ±1.0
D	5.0 ±0.5
H	35 ±3.0
d	0.8 ±0.1



Order code	MPN	Case type	Resistance	Tolerance	Power handling	Working voltage
62-7273	FMF-200-F-47R-T	Axial	47Ω	1%	2W	500V
62-7284	MF-200 6K8	Axial	6.8kΩ	1%	2W	500V

Features:

This series of flame-proof type Metal Film Resistors are manufactured by vacuum deposit metal film on high thermal conductivity ceramic rods, and are coated with layers of gray colour flame-proof lacquer. These flame-proof metal film resistors are designed to replace the metal oxide resistors and low power wire wound resistors, where flame-proof and small size is needed.

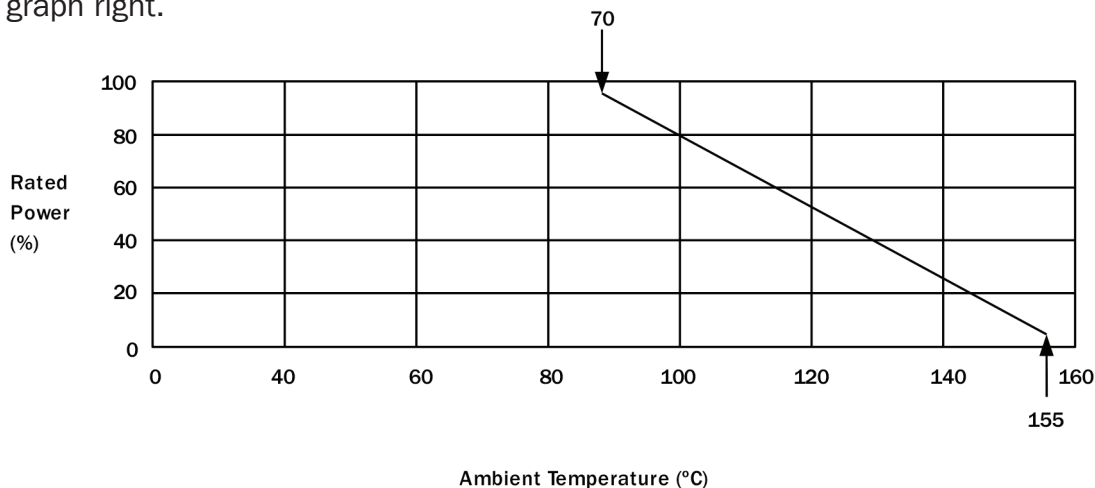
Electrical characteristics

Power rating @ 70°C	2W
Operating temperature range	-55°C to +155°C
Maximum working voltage	500V
Maximum overload voltage	1000V
Dielectric withstanding voltage	1000V

Power rating:

Power derating

The rated power at the temperature in excess of 70°C shall be derated in accordance with the graph right.



Rated voltage:

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$E = \sqrt{R \times P}$$

Where:

E: Continuous rated DC or AC (rms) working voltage (V)

P: Rated power (W)

R: Resistance value (Ω)

Characteristics:

Short time overload

Test method: 2.5x RCWV for 5s
Acceptance standard: $\pm (0.5\% + 0.05\Omega)$

Insulation resistance

Test method: In V-Block
Acceptance standard: $>1000M\Omega$

Solderability

Test method: 260° for 5s ± 0.5
Acceptance standard: 95% minimum coverage

Resistance to solvent

Test method: Trichloroethane for 1 mins. with ultrasonic
Acceptance standard: No deterioration of coatings and markings

Terminal strength

Test method: Direct load for 10s in the direction of the terminal leads
Acceptance standard: $\geq 2.5\text{kg}$ (24.5N)

Pulse overload

Test method: 4x RCWV 10,000 cycles (1s on, 25s off)
Acceptance standard: $\pm (2\% + 0.05\Omega)$

Load life in humidity

Test method: 40°C $\pm 2^\circ\text{C}$ 90 to 95% RH at RCWV for 1000 hours (1.5hr. on, 0.5hr. off)
Acceptance standard: $\pm (1.5\% + 0.05\Omega)$

Load life

Test method: 70°C at RCWV for 1000 hr. (1.5hr. on, 0.5hr. off)
Acceptance standard: $\pm (1\% + 0.05\Omega)$

Temperature cycling

Test method: $-65^\circ\text{C} \rightarrow \text{room temp.} \rightarrow +150^\circ\text{C} \rightarrow \text{room temp.}$ for 5 cycles
Acceptance standard: $\pm (0.5\% + 0.05\Omega)$

Resistance to soldering heat

Test method: 350°C $\pm 10^\circ\text{C}$ for 3s $\pm 0.5\text{s}$
Acceptance standard: $\pm (0.5\% + 0.05\Omega)$

Rated Continuous Working Voltage (RCWV) =

$$\sqrt{\text{power rating} \times \text{resistance value}}$$