

Order code	Manufacturer code	Description
62-7265	n/a	1R 2W 1% METAL FILM RESISTOR RC
62-7266	n/a	2R2 2W 1% METAL FILM RESISTOR RC
62-7267	n/a	3R3 2W 1% METAL FILM RESISTOR RC
62-7268	n/a	4R7 2W 1% METAL FILM RESISTOR RC
62-7269	n/a	10R 2W 1% METAL FILM RESISTOR RC
62-7270	n/a	15R 2W 1% METAL FILM RESISTOR RC
62-7271	n/a	22R 2W 1% METAL FILM RESISTOR RC
62-7272	n/a	33R 2W 1% METAL FILM RESISTOR RC
62-7273	n/a	47R 2W 1% METAL FILM RESISTOR RC
62-7274	n/a	68R 2W 1% METAL FILM RESISTOR RC
62-7275	n/a	100R 2W 1% METAL FILM RESISTOR RC
62-7276	n/a	330R 2W 1% METAL FILM RESISTOR RC
62-7277	n/a	470R 2W 1% METAL FILM RESISTOR RC
62-7278	n/a	680R 2W 1% METAL FILM RESISTOR RC
62-7279	n/a	820R 2W 1% METAL FILM RESISTOR RC
62-7280	n/a	1K 2W 1% METAL FILM RESISTOR RC
62-7281	n/a	2K2 2W 1% METAL FILM RESISTOR RC
62-7282	n/a	3K3 2W 1% METAL FILM RESISTOR RC
62-7283	n/a	4K7 2W 1% METAL FILM RESISTOR RC
62-7284	n/a	6K8 2W 1% METAL FILM RESISTOR RC
62-7285	n/a	10K 2W 1% METAL FILM RESISTOR RC
62-7286	n/a	15K 2W 1% METAL FILM RESISTOR RC
62-7287	n/a	22K 2W 1% METAL FILM RESISTOR RC
62-7288	n/a	33K 2W 1% METAL FILM RESISTOR RC
62-7289	n/a	47K 2W 1% METAL FILM RESISTOR RC
62-7290	n/a	68K 2W 1% METAL FILM RESISTOR RC
62-7291	n/a	100K 2W 1% METAL FILM RESISTOR RC
62-7292	n/a	150K 2W 1% METAL FILM RESISTOR RC
62-7293	n/a	220K 2W 1% METAL FILM RESISTOR RC
62-7294	n/a	330K 2W 1% METAL FILM RESISTOR RC
62-7295	n/a	470K 2W 1% METAL FILM RESISTOR RC
62-7296	n/a	680K 2W 1% METAL FILM RESISTOR RC
62-7297	n/a	1M 2W 1% METAL FILM RESISTOR RC
62-7298	n/a	BOX 1000 1R 2W 1% METAL FILM RESIS RC
62-7299	n/a	BOX 1000 2R2 2W 1% METAL FILM RESIS RC
62-7300	n/a	BOX 1000 3R3 2W 1% METAL FILM RESIS RC
62-7301	n/a	BOX 1000 4R7 2W 1% METAL FILM RESIS RC
62-7302	n/a	BOX 1000 10R 2W 1% METAL FILM RESIS RC
62-7303	n/a	BOX 1000 15R 2W 1% METAL FILM RESIS RC
62-7304	n/a	BOX 1000 22R 2W 1% METAL FILM RESIS RC
62-7305	n/a	BOX 1000 33R 2W 1% METAL FILM RESIS RC
62-7306	n/a	BOX 1000 47R 2W 1% METAL FILM RESIS RC
62-7307	n/a	BOX 1000 68R 2W 1% METAL FILM RESIS RC
62-7308	n/a	BOX 1000 100R 2W 1% METAL FILM RESIS RC
62-7309	n/a	BOX 1000 330R 2W 1% METAL FILM RESIS RC
62-7310	n/a	BOX 1000 470R 2W 1% METAL FILM RESIS RC

	Page 1 of 8
The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

Order code	Manufacturer code	Description
62-7311	n/a	BOX 1000 680R 2W 1% METAL FILM RESIS RC
62-7312	n/a	BOX 1000 820R 2W 1% METAL FILM RESIS RC
62-7313	n/a	BOX 1000 1K 2W 1% METAL FILM RESIS RC
62-7314	n/a	BOX 1000 2K2 2W 1% METAL FILM RESIS RC
62-7315	n/a	BOX 1000 3K3 2W 1% METAL FILM RESIS RC
62-7316	n/a	BOX 1000 4K7 2W 1% METAL FILM RESIS RC
62-7317	n/a	BOX 1000 6K8 2W 1% METAL FILM RESIS RC
62-7318	n/a	BOX 1000 10K 2W 1% METAL FILM RESIS RC
62-7319	n/a	BOX 1000 15K 2W 1% METAL FILM RESIS RC
62-7320	n/a	BOX 1000 22K 2W 1% METAL FILM RESIS RC
62-7321	n/a	BOX 1000 33K 2W 1% METAL FILM RESIS RC
62-7322	n/a	BOX 1000 47K 2W 1% METAL FILM RESIS RC
62-7323	n/a	BOX 1000 68K 2W 1% METAL FILM RESIS RC
62-7324	n/a	BOX 1000 100K 2W 1% METAL FILM RESIS RC
62-7325	n/a	BOX 1000 150K 2W 1% METAL FILM RESIS RC
62-7326	n/a	BOX 1000 220K 2W 1% METAL FILM RESIS RC
62-7327	n/a	BOX 1000 330K 2W 1% METAL FILM RESIS RC
62-7328	n/a	BOX 1000 470K 2W 1% METAL FILM RESIS RC
62-7329	n/a	BOX 1000 680K 2W 1% METAL FILM RESIS RC
62-7330	n/a	BOX 1000 1M 2W 1% METAL FILM RESIS RC



2W 1%

**Metal Film Fixed Resistors
Flame-proof Coating Type**



1. INTRODUCTION

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 color 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.

2. ELECTRICAL CHARACTERISTICS

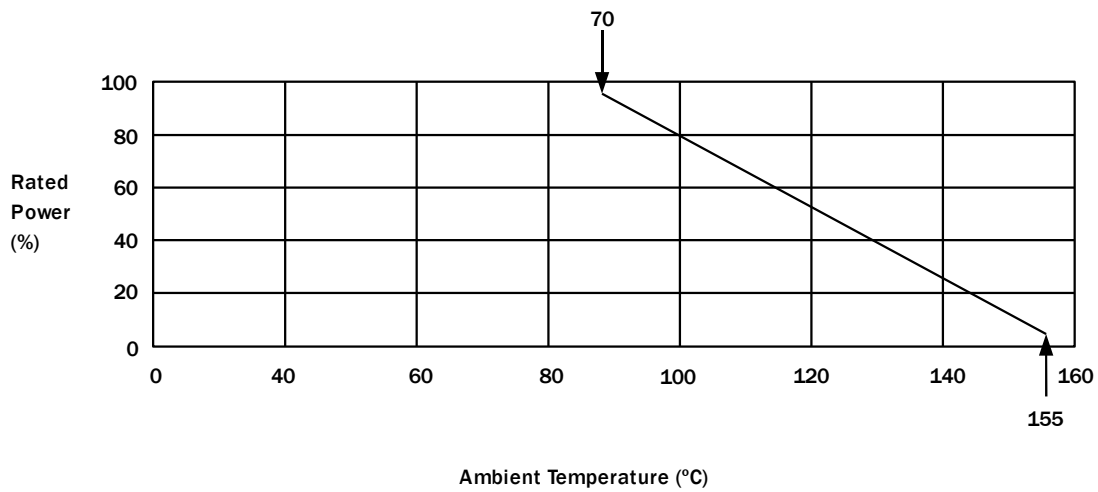
Power rating @ 70°C	2W
Operating temperature range	-55°C to +155°C
Maximum working voltage	500V
Maximum overload voltage	1000V
Dielectric withstanding voltage	1000V



3. POWER RATING

Power derating

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



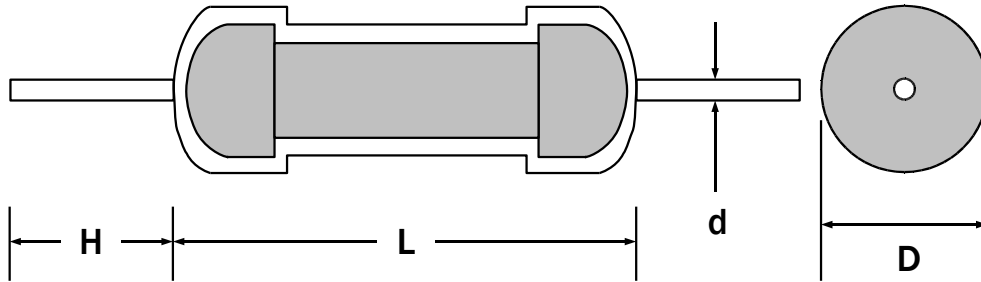
Rated voltage

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)

4. DIMENSIONS



Dimension	Value
L	15 ±1.0
D	5.0 ±0.5
H	35 ±3
d	0.8 ±0.1

mm



5. 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 $\pm (1.5\% + 0.05\Omega)$



5. CHARACTERISTICS (continued)

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°C → room temp. → +150°C → 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) =

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