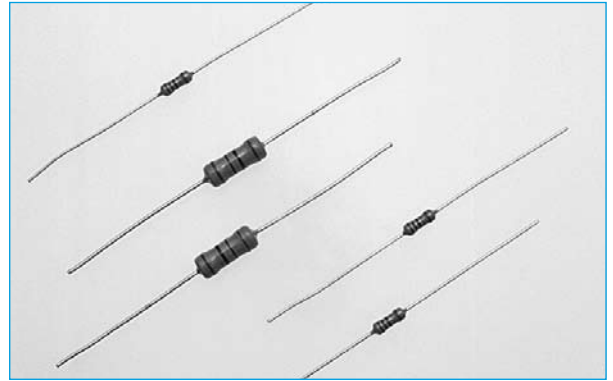
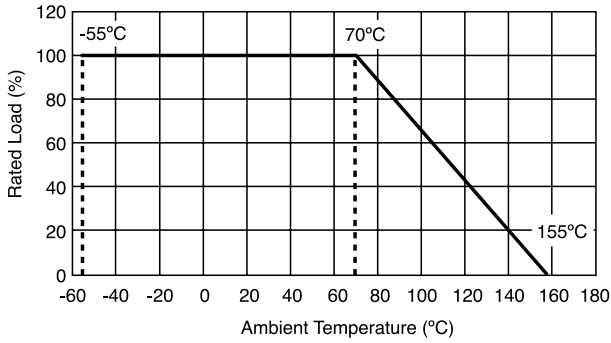


RESISTORS

DMR 16 RESISTOR

FIG.1



POWER RATINGS

Resistors shall have a power rating based on continuous full-load operation at an ambient temperature of 70°C. For temperature in excess of 70°C, the load shall be derated as shown in the figure 1.

VOLTAGE RATINGS

Resistors shall have a rated direct-current (DC) continuous working voltage or an approximate sine-wave root-mean-square (RMS) alternating-current (AC) continuous working voltage at commercial-line frequency and waveform corresponding to the power rating, as determined from the following formula:

$$RCWV = P \times R$$

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Where: RCWV = rated DC or RMS AC continuous working voltage at commercial-line frequency and waveform (Volt)

P = Power rating (Watt)

R = Nominal resistance (Ohm)

In no case shall the rated DC or RMS AC continuous working voltage be greater than the applicable maximum value.

NOMINAL RESISTANCE

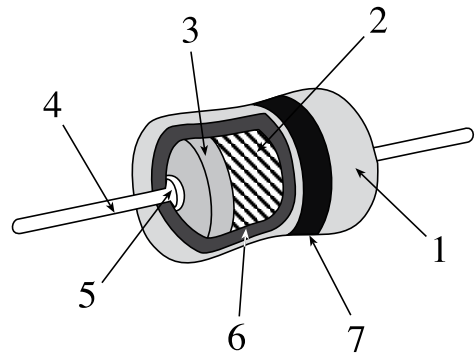
Effective figures of nominal resistance shall be in accordance with E-24 series, and resistance tolerance shall be shown by table 1.

TABLE 1 RATINGS

Rated Power	0.4W at 70°C
Max. Working Voltage	200V
Max. Overload Voltage	400V
Rated ambient temp.	70°C
Operating Temp. Range	-55°C to +155°C
Resistance tolerance	± 1%
Resistance range	10Ω to 1MΩ

CONSTRUCTION

No.	Name	Material
1	Basic Body	Rod type ceramics
2	Resistor	Metal Film
3	End Cap	Steel (Tin plated Iron surface)
4	Lead Wire	Annealed Copper wire (electrosolder plated surface)
5	Joint	By welding
6	Coating	Insulated resin (colour - apple green)
7	Colour Code	Epoxy resin



ORDERING INFORMATION

DMR	16	T	75R
	Type	Taping	Value
	16 = 0.4W	BD= Tape and reel T = Tape and ammo	in ohms

Please note taping specification is available on page 134.

SPECIFICATION

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 seconds	$\pm (0.25\%+0.05\Omega)$
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55 °C to 155 °C	by Type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>10000M Ω
Solderability	JIS-C-5202 6.5	260 °C for ± 5 Seconds	95% Min. Coverage
Resistance to Solvent	JIS-C-5202 6.9	Trichloroethane for 1 Min. with Ultrasonic	No Deterioration of coatings & markings
Terminal Strength	Direct Load for 10 Sec. in The Direction of Terminal Leads		≥ 2.5 kg (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 Times RCWV 10000 Cycles (1 Sec. on, 25 Sec. off)	$\pm(2\%+0.05\Omega)$
Load Life in Humidity	JIS-C-5202 7.9	40 ± 2 °C, 90~95% RH at RCWV for 1000 hrs. (1.5 Hrs. on, 0.5 Hrs. off)	$\pm(1.5\%+0.05\Omega)$
Load Life	JIS-C-5202 7.10	70 °C at RCWV for 1000 Hrs. (1.5 Hrs. on, 0.5 Hrs off)	$\pm(1.5\%+0.05\Omega)$
Temperature Cycling	JIS-C-5202 7.4	-55 °C Room Temp. 155 °C Room Temp. for 5 Cycles	$\pm(0.25\%+0.05\Omega)$
Resistance to Soldering Heat	JIS-C-5202 6.4	350 °C ± 10 °C for 3 ± 0.5 seconds	$\pm(0.25\%+0.05\Omega)$

OUTLINE DRAWING

L (max.)	D (max.)	d ± 0.05	H ± 2
3.3 ± 0.4	1.8 ± 0.3	0.5mm	28

