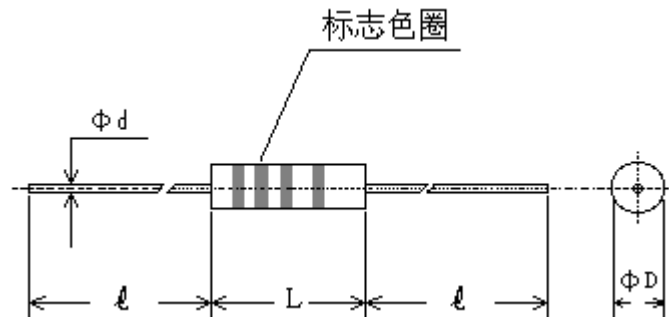


CLEC GROUP

RMC Ceramic composition resistors



■ Construction

■ Dimensions

Type	Dimensions (mm)			
	$L \pm 1$	$D \pm 1$	$d \pm 0.05$	$l \pm 1$
RMC-1W	15.0	6.0	0.75	27
RMC-2W	18.0	8.0	1.0	27

■ Features

Excellent in anti-pulse characteristics.

High reliability against disconnection compared to wirewound resistors and film resistors.

Flame retardant coating.

Compared with the carbon composition resistor, the overload capacity and pulse characteristics are better. It can replace the carbon composition resistor, natural storage, resistance value does not change.

Epoxy insulation plastic sealing

Non-Inductive resistors.

■ Application

Pulse generator, charge discharge capacitance, X ray generator, Soft start of power supply, rectifier protection, false load, high frequency circuit, surge absorption, grounding resistance, High voltage power supply, charging post and other circuits

■ Reference Standards

IEC60115-1, GB/T5729

■ Type Description

Example

RMC - 1W - 1K Ω - K

Product

Power

Nominal

Resistance

Code

Rating

Resistance

Tolerance K: $\pm 10\%$, M: $\pm 20\%$

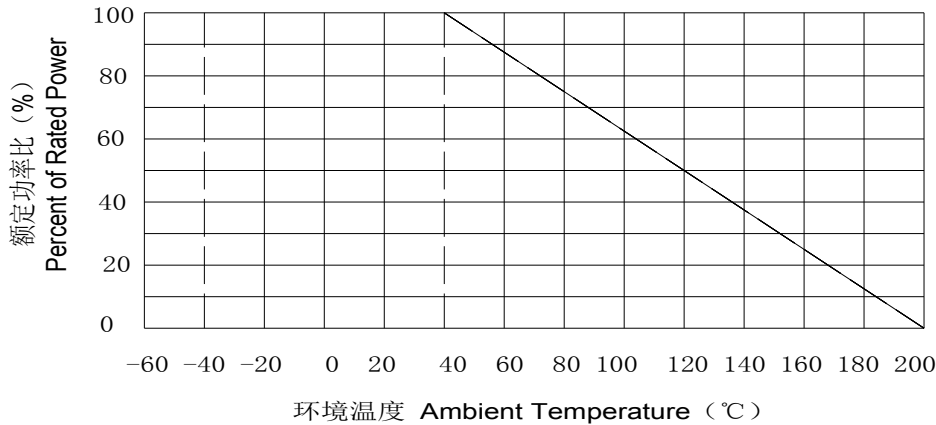
■ Rating

Type	Power Rating	Resistance Range	Max. Working Voltage	Max. Overload Voltage	Max.Pulse Vol.	Dielectric Withstand Voltage
RMC-1W	1W	2.2Ω-15KΩ	300V	600V	10KV	700V
RMC-2W	2W		400V	800V	15KV	700V

$$\text{Rated Voltage} = \sqrt{\text{Power Rating} \times \text{Nominal Resistance}}$$

Or Max working voltage (gave in above table, whichever is lower).

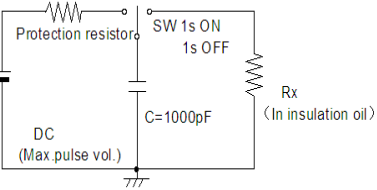
Derating Curve



For resistors operated at the ambient temperature of 40°C or higher ,the power rating shall be derated in accordance with the above derating curve.

Performance

Test Items	Performance Requirements △R/R %	Test Methods
Resistance	Within specified tolerance	At 25°C, measuring voltage is 3V.
TCR	< 100Ω : -900PPM/K±300 PPM/K; ≥100Ω : -1200PPM/K±300 PPM/K	+25°C/-40°C ,+25°C/+125°C
Short time overload	±2.0%	Rated voltage × 2.5 or Max.overload voltage, whichever is lower,for 5s.
Intermittent overload	±5%	10 times rated power, 5 cycles, 5s on, 90s off

Life time at high voltage pulse	±10%	<p>The resistor mounted on to the test circuit as below is applied with high voltage impulse 10000cycles.</p> 
Resistance to soldering heat	±2%	350°C±10°C, 3.5s±0.5
Rapid change of temperature	±2%	-40°C (15min.) /+85°C(15min),5cycles.
Moisture resistance	±5%	40±2°C,90% ~ 95%RH , 1000h , 1.5h ON/0.5h OFF cycles.
Load life	±5%	40±2°C , 1000h, 1.5h ON/0.5h OFF cycles.