

RMC-CC 型陶瓷电阻器

Ceramic Composition Resistors RMC-CC

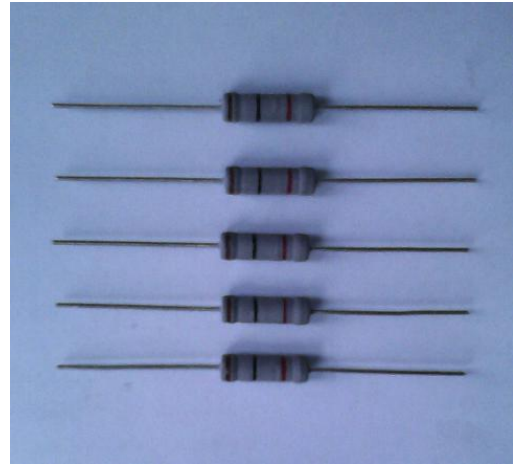
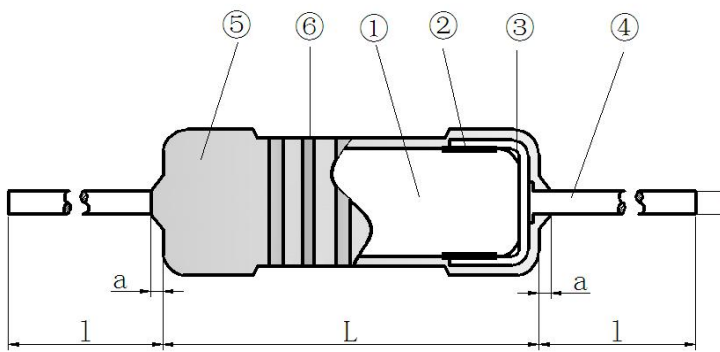
■ 表面涂装颜色 Coating color:

灰色涂层 Grey

■ 标志 Marking:

色环 Color code

■ 结构图 Construction



①	电阻体 Resistive body	④	引线 Lead wire
②	内电极 Inner electrode	⑤	涂层 Coating
③	帽盖 Cap	⑥	标志 Marking

■ 特性: Features

优良的耐脉冲性能。

在断线方面与线绕电阻器和膜式电阻器相比，具有更高的可靠性。

阻燃涂层。

属无感电阻器。

符合 RoHS 要求。

Excellent in anti-pulse characteristics.

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

Flame retardant coating.

Non-Inductive resistors.

Meet RoHS requirements.

■ 用途 Application

X 射线发生装置、电子显微镜的高压回路。

工业机器的电源回路。

High voltage circuit for X-ray generators and electron microscope.

Power supply circuits for machine tools, etc.

■ 参照标准 Reference Standards

IEC60115-1

GB/T5729

■ 外形尺寸 Dimensions

型号 Type	尺寸 Dimensions (mm)					重量 Weight (g) (1000pcs)
	L±1	D	d±0.05	l±3	a	
RMC-CC1/2	9.0	3.5±0.5	0.7	27.0	1.3	450
RMC-CC1	16.5	5.5±1.0	0.7	27.0	1.5	1340
RMC-CC2	19.0	7.0±1.0	0.8	27.0	2.0	2240

■ 型号规格描述 Type Description

例 Example

RMC-CC 1 - 1KΩ - K

型号 额定功率 标称阻值 阻值允许偏差 K: ±10%, M: ±20%

Product Power Nominal Resistance

Code Rating Resistance Tolerance K: ±10%, M: ±20%

CC: Coating and color code marking.

■ 额定值 Rating

型号 Type	额定 功率 Power Rating	阻值范围 Resistance Range		电阻温度系数 TCR ($\times 10^{-6}/K$)	最高 工作电压 Max. Working Voltage	最高 过负荷 电压 Max. Overload Voltage	最大 脉冲 电压 Max. Pulse Vol.	耐电压 Dielectric Withstang Voltage	包装数量 Packagin Q' ty (pcs)
		K: ±10%	M: ±20%						
RMC-CC1/2	1/2W	100Ω~ 100KΩ	100Ω~ 100KΩ	≥100Ω: -1200±300	200V	400V	10KV	500V	1,000
RMC-CC1	1W、2W	100Ω~ 390kΩ	100Ω~ 390kΩ		300V	600V	14KV	500V	1,000
RMC-CC2	2W	100Ω~ 390kΩ	100Ω~ 390kΩ		400V	800V	20KV	700V	5,00

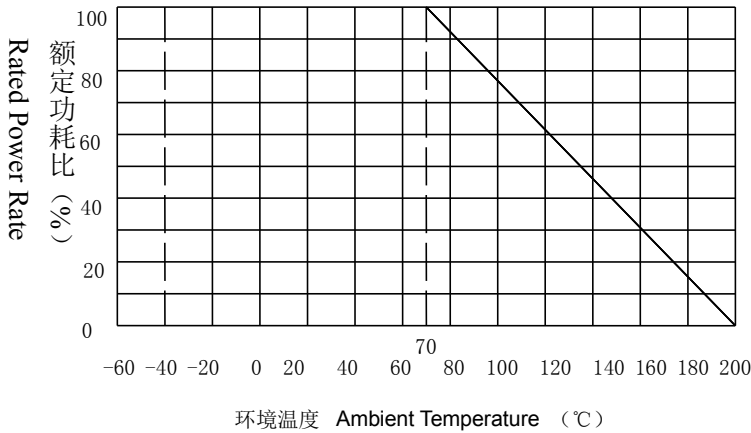
额定电压= $\sqrt{\text{额定功率} \times \text{标称阻值}}$

额定电压或表中给出最大工作电压，在使用时应选两者中的小的值。

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

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

降功耗曲线 Derating Curve

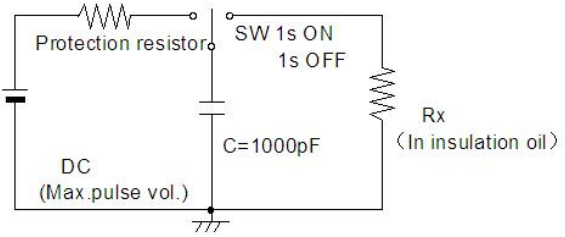


当电阻的工作环境温度超过 70°C 时，应按上图的降功耗曲线降额使用。

For resistors operated at the ambient temperature of 70°C or higher, the power rating shall be derated in accordance with the above derating curve.

性能 Performance

试验项目 Test Items	性能要求 Performance Requirements $\Delta R: \pm (\%R+0.05) \Omega$		试验方法 Test Methods
	保证值 Limit	代表值 Typical	
电阻值 Resistance	在规定的偏差范围内。 Within specified tolerance	-	在 25°C 条件下，测量电压：3.0V。 At 25°C, measuring voltage is 3V.
电阻温度系数 TCR	$\geq 100\Omega: -1200\text{PPM/K} \pm 300 \text{ PPM/K}$	-	+25°C/-40°C , +25°C/+125°C
过载 Short time overload	2	0.5	2.5 倍的额定电压或最高过负荷电压（取低者），持续时间 5s。 Rated voltage \times 2.5 or Max.overload voltage, whichever is lower, for 5s.
高压脉冲 Pulse	5	-	将电阻器安装在下图所示的电路中，施加脉冲电压 10 个循环。 The resistor mounted on to the test circuit as below is applied with high voltage impulse 10cycles. 

高压脉冲寿命 Life time at high voltage pulse	5	-	将电阻器安装在下图所示的电路中，施加脉冲电压 10000 个循环。 The resistor mounted on to the test circuit as below is applied with high voltage impulse 10000cycles. 
耐焊接热 Resistance to soldering heat	2	1.0	350°C ±10°C, 3.5s ±0.5
温度快速变化 Rapid change of temperature	2	1.0	-40°C (15min.) / +85°C (15min), 5 个循环。 -40°C (15min.) / +85°C (15min), 5cycles.
耐湿负荷 Moisture resistance	5	2.0	40 ±2°C, 90%~95%RH, 1000h, 1.5h 通/0.5h 断为一个循环。 40 ±2°C, 90%~95%RH, 1000h, 1.5h ON/0.5h OFF cycles.
负荷寿命 Load life	5	2.0	70 ±2°C, 1000h, 1.5h 通/0.5h 断, 进行循环试验。 70 ±2°C, 1000h, 1.5h ON/0.5h OFF cycles.
耐溶剂性 Resistance to solvent	外观无异常，标志清晰可辨认。 No abnormal in appearance, marking shall be legible.	-	浸入异丙醇或二甲苯中 3min. 除滴 10min. 然后刷 10 次。 Dipping in IPA or Xylene for 3min.and leaving for 10min.after removing drops,then brushing 10times.