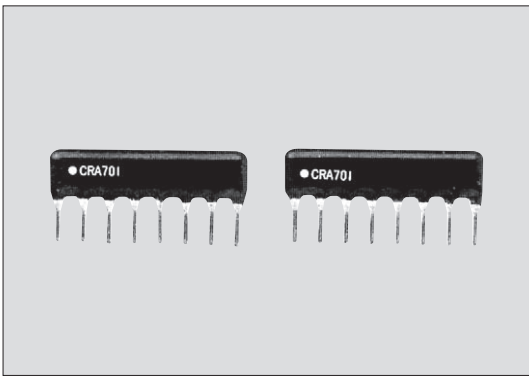
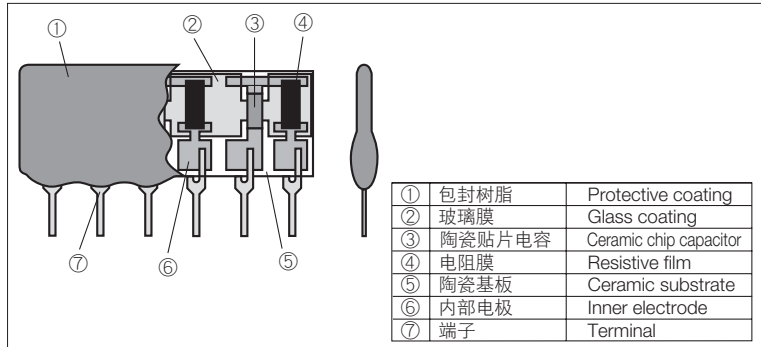


## CR Series CR网络电阻器 CR Network



外观颜色: 黑色 Coating color: Black

### ■ 结构图 Construction



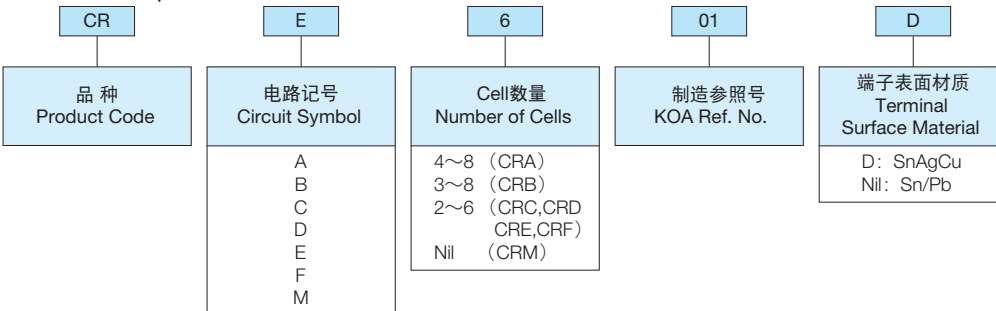
### ■ 特点 Features

- 由于使用了金属釉电阻 (RuO<sub>2</sub>系), 其寿命和长期变化都十分稳定。
- 端子的连接使用了高温焊接, 无需担心焊药熔化, 断路或者端子断开等情况。
- 可以减少部件数量和部件插入数量。
- 全部是可以定制的产品。
- 端子无铅电镀品, 符合欧盟RoHS。电极、电阻膜层、玻璃中所含的铅玻璃不适用欧盟RoHS指令。

- Stable in life and change with the passage of time with metal glaze resistors (RuO<sub>2</sub>).
- Free from short circuit, unexpected solder melting and terminal disconnection due to the high temp. solder used to connect terminals.
- Capable of reducing the numbers of parts and part insertions.
- Custom orders are available.
- Products with lead free termination meet EU-RoHS requirements. EU-RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

### ■ 品名构成 Type Designation

实例 Example



欲知关于此产品含有的环境负荷物质详情(除EU-RoHS以外), 请与我们联系。

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

### ■ 额定值 Ratings

	电阻 Resistor	电容 Capacitor
最高使用电压 Max. Operating Voltage	50V	
规定数值范围 Constant Range	10Ω~1MΩ	10pF~0.1μF
温度特性 T.C.	±200×10 <sup>-6</sup> /K	CH,B,R,F
允许误差 Tolerance	±5% (J)	±5% (J) ±10% (K) ±20% (M) -20%~+80% (Z)
使用温度范围 Operating Temp. Range	-25℃~+85℃	
保存温度范围 Storage Temp. Range	-55℃~+125℃	

### ■ 最大功率/包装 Max. Wattage / Package

	端子数 Number of Pins				
	5	6	7	8	9
mW/Package	500	625	750	875	1000

	端子数 Number of Pins				
	10	11	12	13	14
mW/Package	1050	1150	1250	1350	1450

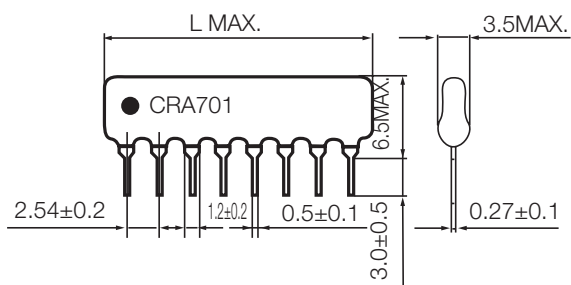
### ■ 对应于无铅产品 Response to Lead-Free

- 增加了不含铅的产品系列。使用Sn/Ag/Cu系进行焊接。关于焊接温度, 请和我们接洽。
- Lead-free products are added to the series. Solder of Sn/Ag/Cu is used for the joining solder. Please inquire of us about soldering temperatures.

温度特性符号 TC Type	温度特性 TC			使用温度范围 Operating Temp.
	标准温度 Reference Temp.	温度范围 Temp. range	静电容量变化率 或温度系数 Capacitance Change or Temperature coefficient	
CH	20℃	20~125℃	0±60ppm/℃	-55~125℃
B	20℃	-25~85℃	±10%	-25~85℃
R	20℃	-55~125℃	±15%	-55~125℃
F	20℃	-25~85℃	+30、-80%	-25~85℃

本样本手册中记载的产品规格如有变更, 恕不一一奉告。订购以及使用之前, 请仔细确认规格表的内容。  
用于车载设备、医疗设备、航空设备以及其它涉及人身安全、或可能引起重大损失的设备上时, 请务必事先与我公司联系。这些产品在这类用途中出现故障或失灵可能导致人身事故或严重损坏。  
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.  
Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment.  
Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

## ■ 外形尺寸 Dimensions (mm)



型号 Type	尺寸 Dimensions (mm)		
	端子数 Number of Pins	L	H
CRA□	5~9	2.54×P+0.6	6.5
CRB□	5~10		
CRC□	5~13		
CRD□	5~13		
CRE□	6~14		
CRF□	5~13		

P = Number of pins

## ■ CR电阻网络订货时，请指定以下的项目。

When ordering the CR series, please indicate the following items shown below:

电路符号是A~F的情况下，请指定以下的项目。

For circuit code A~F, please indicate the following items.

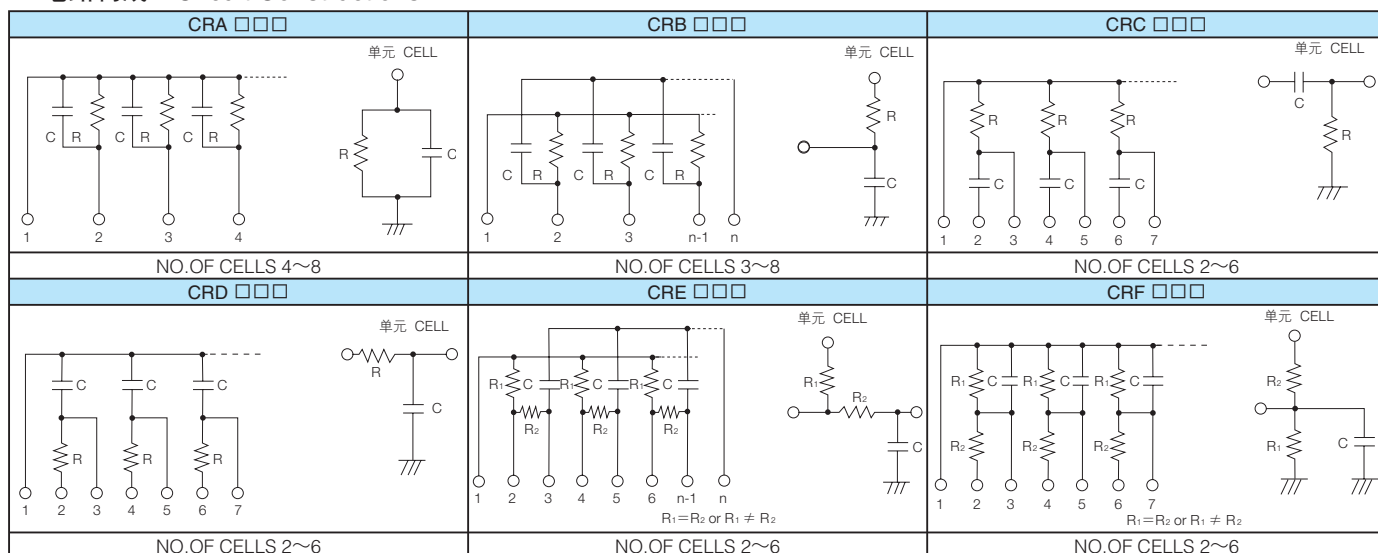
电阻值	Resistance
静电容量	Capacitance
使用电压	Operating voltage
静电容量允许误差	Capacitance tolerance
温度特性	T.C.

定制产品在订货时请追加指定以下项目。

For circuit code M, please add the following items.

电路图	Circuit schematics
端子配置	Pin layout
尺寸	Dimensions
使用条件	Conditions for use
电阻 (额定功率、允许误差、T.C.R.)	Resistor (Power rating, Tolerance, T.C.R.)

## ■ 电路构成 Circuit Constructions



## ■ 使用注意事项 Precautions for Use

- 无铅端子品的波峰焊条件是255℃以下，5秒以内。
- 在网络电阻中，很快会发生串音。电流在共用电极中流动时，由于它的电压下降，在电流不流动的电阻元件中也会感应起微小的电压，因此，应考虑到串音的影响进行电路设计。
- The conditions of flow soldering for lead-free terminal resistors are set up at 255℃ max. within 5 sec.
- A few cross talks will happen in network resistors. Design the circuit taking the effect by the cross talks into consideration as very low voltage will occur to the resistor elements that don't pass current by the voltage drop in common electrode if current flows to the common electrodes.