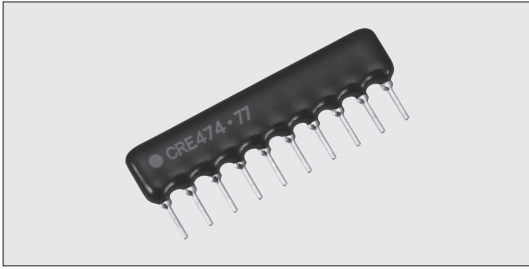
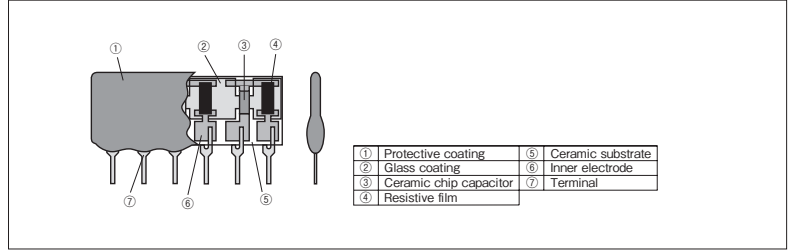


CR Series | CR Networks



Coating color : Black

Construction

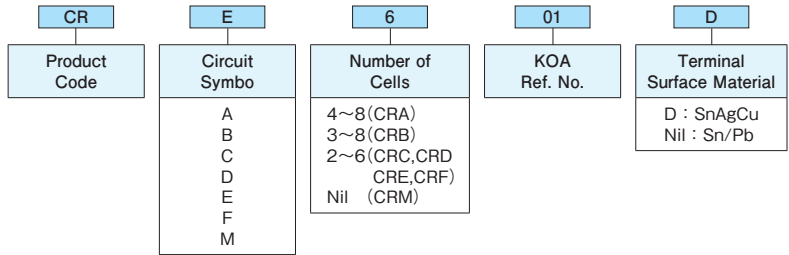


Features

- Stable in life and change with the passage of time with metal glaze resistors (RuO₂).
- Free from short circuit, unexpected solder melting and terminal disconnection due to the high temp. solder (Lead free) 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.

Type Designation

Example



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

Ratings

	Resistor	Capacitor
Max. Operating Voltage	50V	
Constant Range	10Ω~1MΩ	10pF~0.1 μF
T.C.	±200×10 ⁻⁶ /K	CH, B, R ^{*1}
Tolerance	±5% (J)	±5% (J) ±10% (K) ±20% (M)
Operating Temp. Range	-25°C~+85°C	
Storage Temp. Range	-55°C~+125°C	

※1

T.C. Type	T.C.			Operating Temp. Range
	Reference Temp.	Temp. range	Capacitance Change or Temperature coefficient	
CH	20°C	+20°C~+125°C	0±60ppm/°C	-55°C~+125°C
B	20°C	-25°C~+85°C	±10%	-25°C~+85°C
R	20°C	-55°C~+125°C	±15%	-55°C~+125°C

Max. Wattage / Package

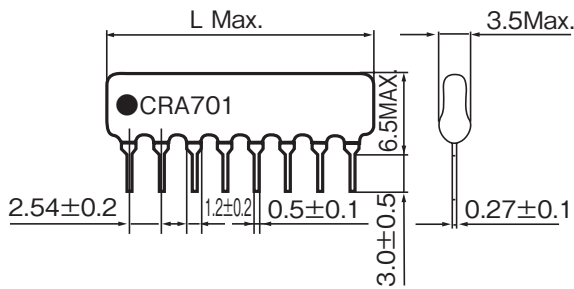
	Number of Pins				
	5	6	7	8	9
mW/Package	500	625	750	875	1000

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

Response to Lead-Free

- 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.

■ Dimensions (mm)



Type	Dimensions (mm)		
	Number of Pins	L Max.	H Max.
CRA□	5~9	2.54 × P ^{#2} + 0.6	6.5
CRB□	5~10		
CRC□	5~13		
CRD□	5~13		
CRE□	6~14		
CRF□	5~13		

※2 P=Number of pins

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

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

- Resistance
- Capacitance
- Operating voltage
- Capacitance tolerance
- T.C.

For circuit code M, please add the following items.

- Circuit schematics
- Pin layout
- Dimensions
- Conditions for use
- Resistor (Power rating, Tolerance, T.C.R.)

■ Circuit Constructions

CRA □ □ □	CRB □ □ □	CRC □ □ □
NO.OF CELLS 4~8	NO.OF CELLS 3~8	NO.OF CELLS 2~6
CRD □ □ □	CRE □ □ □	CRF □ □ □
NO.OF CELLS 2~6	NO.OF CELLS 2~6	NO.OF CELLS 2~6

■ Precautions for Use

- The conditions of flow soldering for lead-free terminal resistors are set up at 255°C 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.