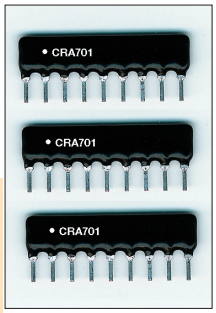
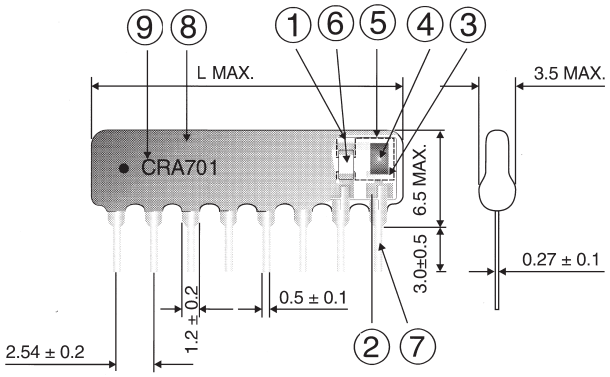
THICK FILM R-C NETWORKS

CUSTOMIZED CIRCUITS

CR SERIES





STRUCTURE

1 Ceramic substrate
2 Pin connection
3 Printed conductor (Ag, Pd)
4 Resistive layer
5 Glass layer
6 Ceramic capacitor
7 Solder plated copper term.
8 Epoxy powder overcoating
9 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
CR xxxx	Black	Alpha Numeric (Type, Reference-number)

Products with Pb-free terminations meet EU-RoHS requirements

NETWORKS (PASSIVE COMPONENTS)

TYPE DESIGNATION (HOW TO ORDER)

STANDARD

CR	E	6	01	D
PRODUCT CODE	CIRCUIT SYMBOL A, B, C, D, E, F, M	NUMBER OF CELLS 4-8 (CRA) 3-8 (CRB) 2-6 (CRC, CRD, CRE, CRF) 'Blank': (CRM)	KOA REF. NUMBER	TERMINATION SURFACE MATERIAL D: SnAgCu 'Blank': (Sn/Pb)

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

FEATURES

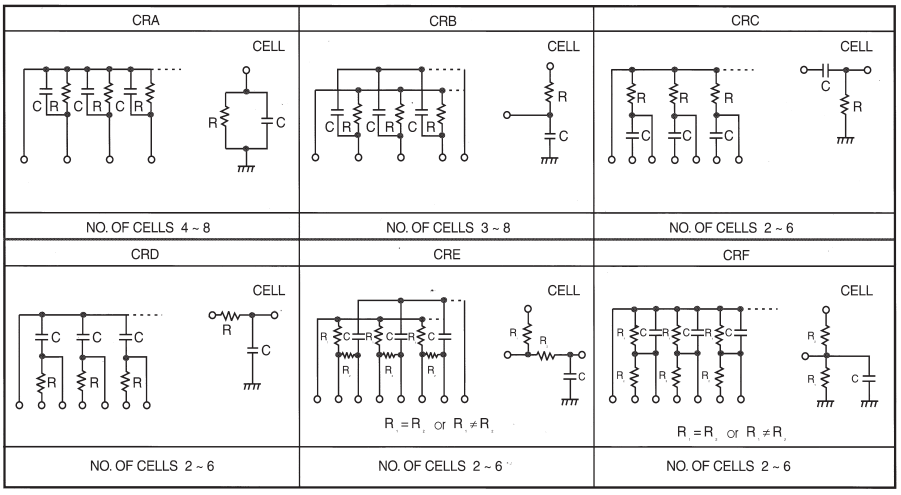
- The below mentioned characteristics are representative examples and can be changed in accordance with the customers requirements
- Free from short circuit, unexpected solder melting and terminal disconnection due to the high temp. solder used to connect terminals
- Thick film resistors and ceramic capacitors are included as standard types
- Thin film resistors and tantalum capacitors on request
- Maximum operating voltage: 50 V
- Operating temperature range: -25°C ... +85°C
- Storage temperature range: -55°C ... +125°C

DIMENSIONS (mm)

TYPE	NUMBER OF PINS	L(Max.)
CRA	5 ~ 9	2.54 x P + 0.6
CRB	5 ~ 10	
CRC	5 ~ 13	
CRD	5 ~ 13	
CRE	6 ~ 14	
CRF	5 ~ 13	

P = number of pins

CIRCUIT CONSTRUCTIONS (EXAMPLES)



RATING

MODULE POWER RATING AT 70°C										
Number of Pins	5	6	7	8	9	10	11	12	13	14
Wattage/Package Max. (mW)	500	625	750	875	1000	1050	1150	1250	1350	1450

	T.C.R./T.C.C.	RANGE	TOLERANCE
RESISTOR	± 200 ppm/K	10 Ω ... 1 MΩ	J (± 5%)
CAPACITOR	CH, B, R, F	10 pF ... 0.1 µF	J (± 5%), K (±10%) M (± 20 %), Z (-20%...+80%)

Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower.