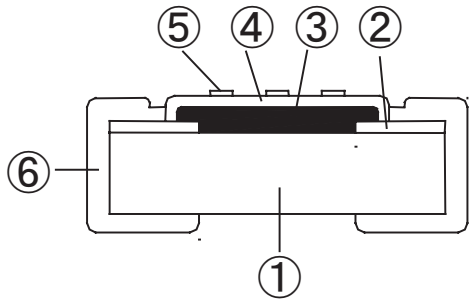
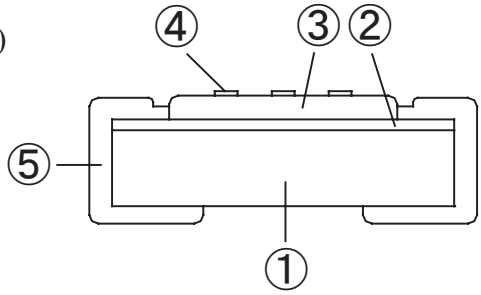
*1 Article	CR06 (CR1/20)	CR10 (CR1/16S)	CR16 (CR1/16)	CR20 (CR1/10)	CR32 (CR1/8)	CR35 (CR1/4)	CR50 (CR1/2)	CR64 (CR1)
Size Code inch	0201	0402	0603	0805	1206	1210	2010	2512
Size Code mm	0603	1005	1608	2012	3216	3225	5025	6432

*1 ( ):Conventional Type No.

■Construction



(0Ω Type)



Symbol	Material List
①	Alumina substrate
②	Conductor
③	Resistive film
④	Over coat
⑤	Marking *2
⑥	Side termination

Symbol	Material List
①	Alumina substrate
②	Conductor
③	Over coat
④	Marking*2
⑤	Side termination

*2 No marking on CR06, CR10, CR16 (E-96 Series)

■Type Designation

*1

CR16 (CR1/16)	102	J	V

Article *1
CR06(CR1/20)
CR10(CR1/16S)
CR16(CR1/16)
CR20(CR1/10)
CR32(CR1/8)
CR35(CR1/4)
CR50(CR1/2)
CR64(CR 1)

Resistance		
3 or 4 digit		
(Resistance)		(Marking)
0Ω	→	000
4.7Ω	→	4R7
1kΩ	→	102
1.02kΩ	→	1021

Tolerance (%)	
Symbol	Tolerance
D	± 0.5
F	± 1.0
G	± 2.0
J	± 5.0
K	± 10.0

0Ω type is no marking

Packaging	
Symbol	Packaging
B	Bulk
V	Paper taping
E	Embossed taping
C	Bulk case

■Rating

*1 Article	Rated Wattage (%)	Tolerance (%)		Resistance Range E-24, E-96 Series Standard (%)	T.C.R. (Ω)	Max. Working Voltage (%)	Max. Overload Voltage (%)	0Ω Type Rated Current (A)	0Ω Type Resistance (Ω)
CR06 (CR1/20)	0.050	F	±1	10 ～ 1M	±250	25	50	0.5	Max. 50mΩ
		G	±2	10 ～ 1M	±250				
		J	±5	10 ～ 1M	±250				
CR10 (CR1/16S)	0.063	D	±0.5	100 ～ 100k	± 50	50	100	1.0	
		F	±1	10 ～ 1M	±100				
		G	±2	10 ～ 1M	±200				
		J	±5	4.7 ～ 2.2M	±300				
CR16 (CR1/16)	0.063	D	±0.5	100 ～ 100k	± 50	50	100	1.0	
	0.100	D	±0.5	100 ～ 976	±100				
		F	±1	10 ～ 1M	±100				
		G	±2	10 ～ 1M	±200				
		J	±5	1 ～ 4.3	-100～+600				
				4.7 ～ 3.3M	±200				
				3.6M ～ 10M	±300				
CR20 (CR1/10)	0.100	D	±0.5	100 ～ 100k	±100	150	200	1.5	
	0.125	F	±1	10 ～ 1M	±100				
		G	±2	10 ～ 1M	±200				
		J	±5	1 ～ 4.3	-100～+600				
				4.7 ～ 3.3M	±200				
				3.6M ～ 10M	±300				
		K	±10	11M～ 22M	±300				
CR32 (CR1/8)	0.125	D	±0.5	100 ～ 100k	±100	200	400	2.0	
	0.250	F	±1	10 ～ 1M	±100				
		G	±2	10 ～ 1M	±200				
		J	±5	1 ～ 4.3	-100～+600				
				4.7 ～ 3.3M	±200				
				3.6M ～ 10M	±300				
		K	±10	11M～ 22M	±300				
CR35 (CR1/4)	0.250	F	±1	10 ～ 1M	±100	200	400	2.0	
		G	±2	10 ～ 1M	±200				
		J	±5	1 ～ 4.3	-100～+600				
				4.7 ～ 3.3M	±200				
				3.6M ～ 10M	±300				
CR50 (CR1/2)	0.500	G	±2	10 ～ 1M	±300	200	400	2.0	
		J	±5	1 ～ 1M	±500				
CR64 (CR1)	1.000	J	±5	1 ～ 9.1	±500	200	400	2.0	
				10 ～ 1M	±300				

*1 ( ):Conventional Type No.

★Operating temperature range : -55 ℃～+125 ℃

★E-96 series resistance values are available for D class F class.

★Please apply the rated voltage or lower.

Rated voltage is calculated by $E=\sqrt{PR}$

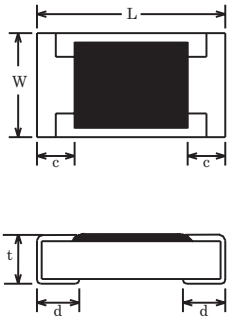
E = Rated Voltage (V)

P = Rated Power (W)

R = Resistance (Ω)

★In case rated voltage calculation is excess of maximum working voltage, maximum or lower voltage be applied.

■ Dimension



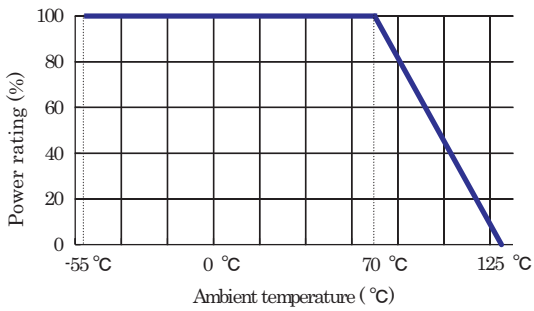
(mm)

Article *1	L	W	c	d	t
CR06 (CR1/20)	0.60 ± 0.03	0.30 ± 0.03	0.12 ± 0.05	0.15 ± 0.05	0.23 ± 0.03
CR10 (CR1/16S) LCR10 (LCR1/16S)	1.00 ± 0.05	0.50 ± 0.05	0.20 ± 0.10	0.25 ± 0.10	0.35 ± 0.05
CR16 (CR1/16), LCR16 (LCR1/16) FCR16 (FCR1/16)	1.60 ± 0.15	0.80 +0.20 −0.10	0.25 ± 0.20	0.25 ± 0.20	0.50 +0.15 −0.05
CR20 (CR1/10), LCR20 (LCR1/10) UCR20 (UCR1/10), FCR20 (FCR1/10)	2.00 +0.20 −0.10	1.25 +0.20 −0.10	0.40 ± 0.20	0.40 ± 0.20	0.50 +0.15 −0.05
CR32 (CR1/8), LCR32 (LCR1/8) ECR32, FCR32 (FCR1/8)	3.20 +0.10 −0.15	1.60 +0.10 −0.15	0.50 ± 0.20	0.50 ± 0.20	0.55 +0.15 −0.05
CR35 (CR1/4), LCR35 (LCR1/4) FCR35 (FCR1/4)	3.20 +0.10 −0.15	2.60 +0.10 −0.15	0.50 ± 0.20	0.50 ± 0.20	0.55 +0.15 −0.05
CR50 (CR1/2), LCR50 (LCR1/2) ECR50, FCR50 (FCR1/2)	5.00 ± 0.20	2.50 ± 0.20	0.60 ± 0.25	0.60 ± 0.25	0.56 ± 0.15
CR64 (CR1) LCR64 (LCR1)	6.30 ± 0.20	3.20 ± 0.20	0.60 ± 0.25	0.60 ± 0.25	0.56 ± 0.15

*1 ( ):Conventional Type No.

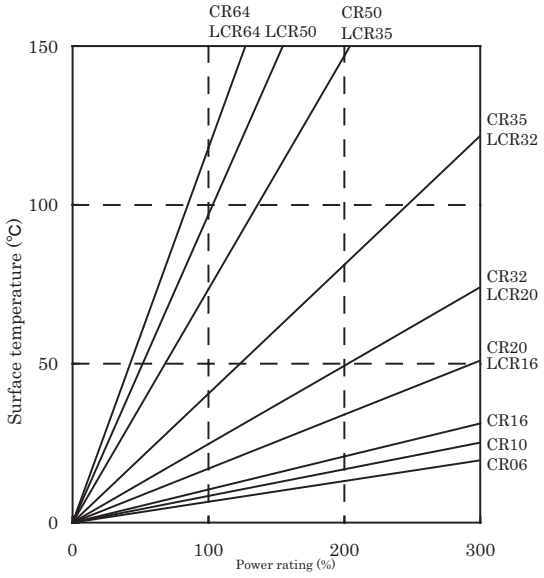
■Power rating

For resistors operated in ambient temperature above 70 ℃,
power rating must be derated in accordance with the derating curve.



■Surface temperature

Surface temperature rise is shown in this figure.
Please notice that CR50 and CR64 have high temperature rise when Loaded 100%.



■Packaging

Refer page 12