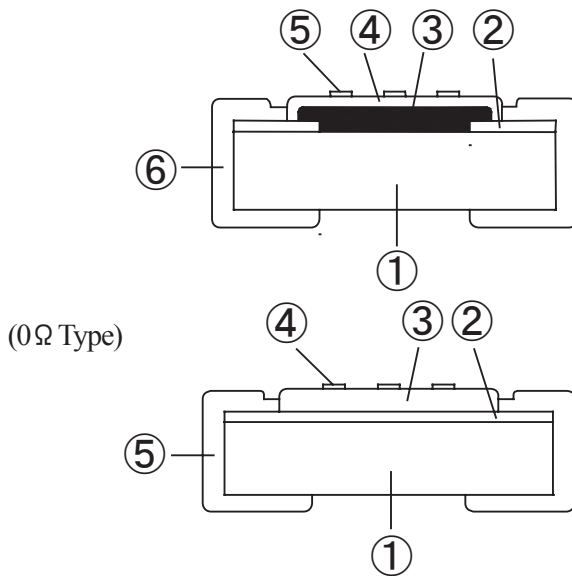


*1 Model No.	CR04 (CR1/32)	CR06 (CR1/20)	CR10 (CR1/16S)	CR16 (CR1/16)	CR20 (CR1/10)	CR32 (CR1/8)	CR35 (CR1/4)	CR50 (CR1/2)	CR64 (CR1)
Size Code inch	01005	0201	0402	0603	0805	1206	1210	2010	2512
Size Code mm	0402	0603	1005	1608	2012	3216	3225	5025	6432

*1 (): Conventional Model No.

■ Construction



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 CR04, CR06, CR10, CR16 (E-96 Series)

■ Model Designation

Conventional Model No.

CR1/16	102	J	V
①	②	③	④

Model No.

CR16	-	102	J	V
①		②	③	④

Model No. for user who requires it.

CR16	-	102	J	V	G
①		②	③	④	⑤

⑤TCR	
Symbol	TCR(ppm/°C)
G	± 50
H	± 100
K	± 250
M	± 500

① Model No.
CR04(CR1/32)
CR06(CR1/20)
CR10(CR1/16S)
CR16(CR1/16)
CR20(CR1/10)
CR32(CR1/8)
CR35(CR1/4)
CR50(CR1/2)
CR64(CR1)

② Resistance	
(Resistance)	(Marking)
3 or 4 digit	
0Ω	→ 000
4.7Ω	→ 4R7
1kΩ	→ 102
1.02kΩ	→ 1021

③ Tolerance (%)	
Symbol	Tolerance
D	± 0.5
F	± 1.0
G	± 2.0
J	± 5.0
K	± 10.0

0Ω type is no marking

④ Packaging	
Symbol	Packaging
B	Bulk
V	Paper taping
E	Embossed taping



Flat Chip Resistors

Rating

*1 Model No.	Rated Wattage (W)	Tolerance (%)		Resistance (Ω)	T.C.R. (ppm / °C)	Max. Working Voltage (V)	Max. Overload Voltage (V)	0Ω Type			
								Rated Curren (A)	Resistance (Ω)		
CR04	0.03	F	±1	10~1M	±250	15	30	03	Max. 50m Ω		
		G	±2	10~1M	±250						
		J	±5	10~1M	±250						
CR06 (CR1/20)	0.05	F	±1	10~1M	±200	25	50	05			
		G	±2	10~1M	±200						
		J	±5	1.0~9.1	±400						
CR10 (CR1/16S)	0.10	*2	D	±0.5	10~97.6	±100	50	100		10	
			D	±0.5	100~1M	±50					
			F	±1	10~1M	±100					
			G	±2	10~1M	±200					
			J	±5	1.0~9.1	±300					
CR16 (CR1/16)	0.125		D	±0.5	100~976	±100	50	100		10	
			D	±0.5	1K~100K	±50					
			F	±1	10~1M	±100					
			G	±2	10~1M	±200					
			J	±5	1~4.3	-100~+600					
			J	±5	4.7~3.3M	±200					
CR20 (CR1/10)	0.25		D	±0.5	100~1K	±100	150	200		15	
			F	±1	10~1K	±100					
			G	±2	10~1K	±200					
			J	±5	1~4.3	-100~+600					
	*2	0.25		D	±0.5	1.02K~100K					±100
				F	±1	1.02K~1M					±100
				G	±2	1.1K~1M					±200
				J	±5	1.1K~3.3M			±200		
				J	±5	3.6M~10M			±300		
				K	±10	11M~22M			±300		
CR32 (CR1/8)	0.25		D	±0.5	100~100K	±100	200	400	20		
			F	±1	10~1M	±100					
			G	±2	10~1M	±200					
			J	±5	1~4.3	-100~+600					
			J	±5	4.7~3.3M	±200					
			J	±5	3.6M~10M	±300					
			K	±10	11M~22M	±300					
CR35 (CR1/4)	0.50		D	±0.5	100~100K	±100	200	400	20		
			F	±1	10~1M	±100					
			G	±2	10~1M	±200					
			J	±5	1~4.3	-100~+600					
			J	±5	4.7~3.3M	±200					
			J	±5	3.6M~10M	±300					
CR50 (CR1/2)	0.75		F	±1	10~1M	±200	200	400	20		
			G	±2	10~1M	±300					
			J	±5	1.0~9.1	±500					
			J	±5	10~1M	±300					
CR64 (CR1)	1.00		J	±5	1.0~9.1	±500	200	400	20		
			J	±5	10~1M	±300					

*1 (): Conventional Model No.

*2 Short-time overload test condition : Voltage equal to 2.5times rated voltage ⇒ Voltage equal to 1.5 times rated voltage

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

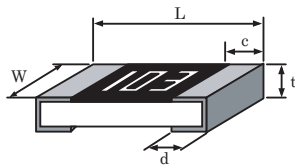
★Please apply the rated voltage or lower.

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



Model No. *1	L	W	c	d	t
CR04 (CR1/32)	0.40 ± 0.02	0.20 ± 0.02	0.10 ± 0.03	0.10 ± 0.03	0.13 ± 0.02
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)	1.00 ± 0.05	0.50 ± 0.05	0.20 ± 0.10	0.25 ± 0.10	0.35 ± 0.05
CR16 (CR1/16)	1.60 ± 0.15	0.80 ^{+0.20} _{-0.10}	0.25 ± 0.20	0.25 ± 0.20	0.45 ± 0.10
CR20 (CR1/10)	2.00 ^{+0.20} _{-0.10}	1.25 ^{+0.20} _{-0.10}	0.40 ± 0.20	0.40 ± 0.20	0.50 ± 0.10
CR32 (CR1/8)	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)	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)	5.00 ± 0.15	2.50 ± 0.20	0.60 ± 0.25	0.60 ± 0.25	0.56 ± 0.15
CR64 (CR1)	6.30 ± 0.15	3.20 ± 0.20	0.60 ± 0.25	0.60 ± 0.25	0.56 ± 0.15

*1 (): Conventional Model No.

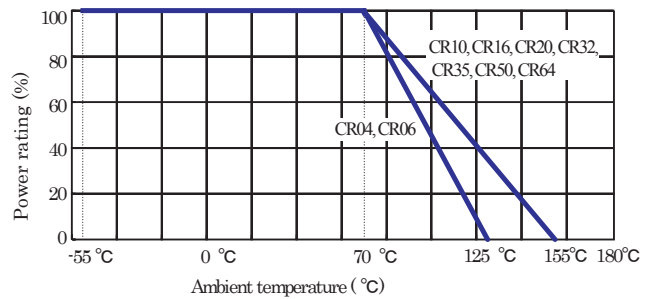
Power rating

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

Operating temperature range

CR10~CR64: -55°C+155°C

CR04, CR06: -55°C+125°C



Packaging

Refer "Dimension, Packaging, etc."