

# CHIP TYPE

# CR

Series

Surface Mounted Device



## Features

- Higher Capacitance in larger case sizes.
- For general purposes series with 85°C 2000 hours.

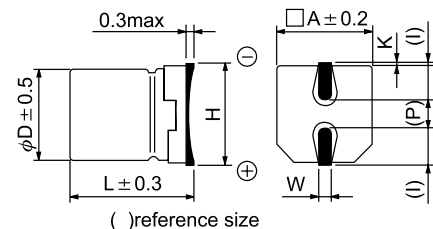


## SPECIFICATION

Item	Characteristic									
Operation Temperature Range	-40 ~ +85°C									
Rated Working Voltage	4 ~ 100VDC									
Capacitance Tolerance (120Hz 20°C)	±20%(M)									
Leakage Current (20°C)	I ≤ 0.01CV or 3 (μA) *Whichever is greater after 2 minutes									
	I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)									
Surge Voltage (20°C)	W.V.	4	6.3	10	16	25	35	50	63	100
	S.V.	5	8	13	20	32	44	63	79	125
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more then 1000 μF									
	W.V.	4	6.3	10	16	25	35	50	63	100
	tan δ	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10
Low Temperature Stability	Impedance ratio at 120Hz									
	Rated Voltage (V)	4	6.3	10	16	25	35	50	63	100
	-25°C / +20°C	7	4	3	2	2	2	2	2	2
	-40°C / +20°C	15	8	6	4	4	3	3	3	3
Load Life	After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)									
	Capacitance Change	≤ ±20% of initial value								
	Dissipation Factor	≤ 200% of initial specified value								
	Leakage current	≤ initial specified value								
Shelf Life	At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)									
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.									
	Capacitance Change	≤ ±10% of initial value								
	Dissipation Factor	≤ initial specified value								
	Leakage current	≤ initial specified value								

## DIMENSIONS (mm)

D	L	A	H	I	W	P	K
8.0	6.2	8.3	9.5MAX	3.4	0.65±0.1	2.2	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
8.0	10.2	8.3	10.0MAX	3.4	0.90±0.2	3.1	0.70±0.2
10.0	10.2	10.3	12.0MAX	3.5	0.90±0.2	4.6	0.70±0.2



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● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
 Max ripple current : mA(rms) 85°C 120Hz

μF	V(Code) Code	Item	4 (0G)		6.3 (0J)		10 (1A)	
			DxL	R.C.	DxL	R.C.	DxL	R.C.
100		101					8x6.2	130
220		221			8x6.2	150	8x6.2	190
330		331	8x6.2	140	8x6.2	180	8x10.2	290
470		471	8x10.2	210	8x10.2	260	10x10.2	420
1000		102	8x10.2	300	10x10.2	460	10x10.2	610
1500		152	10x10.2	440	10x10.2	560		

μF	V(Code) Code	Item	16 (1C)		25 (1E)		35 (1V)	
			DxL	R.C.	DxL	R.C.	DxL	R.C.
33		330					8x6.2	120
47		470			8x6.2	100	8x6.2	140
100		101	8x6.2	140	8x6.2	150	8x10.2	250
220		221	8x10.2	260	8x10.2	270	10x10.2	440
330		331	8x10.2	310	10x10.2	450	10x10.2	540
470		471	10x10.2	450				

μF	V(Code) Code	Item	50 (1H)		63 (1J)		100 (2A)	
			DxL	R.C.	DxL	R.C.	DxL	R.C.
3.3		3R3					8x6.2	41
4.7		4R7					8x10.2	60
10		100					8x10.2	85
22		220	8x6.2	110	8x10.2	120	10x10.2	150
33		330	8x6.2	130	8x10.2	140	10x10.2	180
47		470	8x10.2	190	10x10.2	190		
100		101	10x10.2	310	10x10.2	280		
220		221	10x10.2	460				