CHIP TYPE

CN Series   Surface-Mounted Device

- Height : 5.4mm.
- Load life : 85°C 2000 hours.
- Non polarty series using in polarity circuits

● SPECIFICATION

Item	Characteristic						
Operation Temperature Range	-40 ~ +85°C						
Rated Working Voltage	6.3 ~ 50VDC						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	I ≦0.05CV or 10 (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.	6.3	10	16	25	35	50
	S.V.	8	13	20	32	44	63
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50
	tan $\delta\phi$	0.26	0.22	0.20	0.20	0.20	0.18
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	6.3	10	16	25	35	50
	-25°C / +20°C	4	3	2	2	2	2
	-40°C / +20°C	8	6	4	4	3	3
Load Life	After 2000 hours application of WV at +85°C the capacitor shall meet the following limits. (The polarity need to exchange every 250 hours)						
	Capacitance Change	≦±25% 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 folowing 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
4.0	5.4	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 $^{+0.15}_{-0.20}$
5.0	5.4	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 $^{+0.15}_{-0.20}$
6.3	5.4	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 $^{+0.15}_{-0.20}$

0.3max
□A±0.2
ϕD±0.5
H
L $^{+0.1}_{-0.2}$
W
( )reference size
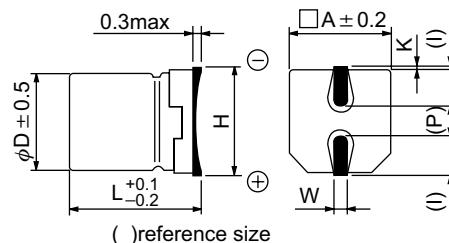
● CASE SIZE & MAX RIPPLE CURRENT

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

µF	Code	6.3 (0J) DxL	6.3 (0J) R.C.	10 (1A) DxL	10 (1A) R.C.	16 (1C) DxL	16 (1C) R.C.	25 (1E) DxL	25 (1E) R.C.	35 (1V) DxL	35 (1V) R.C.	50 (1H) DxL	50 (1H) R.C.
0.1	0R1											4x5.4	2
0.22	R22											4x5.4	3
0.33	R33											4x5.4	4
0.47	R47											4x5.4	5
1.0	010											4x5.4	7
2.2	2R2							4x5.4	10			5x5.4	12
3.3	3R3							5x5.4	13	5x5.4	14	5x5.4	14
4.7	4R7					4x5.4	14	5x5.4	16	5x5.4	17	6.3x5.4	19
10	100			4x5.4	19	5x5.4	23	6.3x5.4	27	6.3x5.4	28		
22	220	5x5.4	29	6.3x5.4	36	6.3x5.4	39						
33	330	6.3x5.4	41	6.3x5.4	45	6.3x5.4	48						
47	470	6.3x5.4	49										