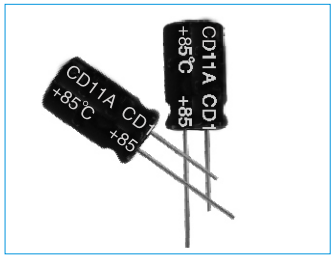
CD11A Height 5mm Series



- Ultra miniature series with 5mm height
- Suitable to replace tantalum capacitors at low cost
- Load life of 1000 hours at 85℃

CD11C ⟹ CD11A
5mmL

Specifications

Item	Characteristics
Operating Temperature Range	−40℃ ~ +85℃
Rated Voltage Range	4V~50V
Nominal Capacitance Range	0.1 μ F~330 μ F
Capacitance Tolerance	M (± 20%) (20℃,120Hz)
Leakage Current	I ≤ 0.01CRUR or 3(μ A),whichever is greater. CR:Nominal capacitance (μ F) UR:Rated voltage(V) (20℃, after 2 minutes)

Dissipation Factor (Max)

UR (V)	4	6.3	10	16	25	35	50
tan δ	0.4	0.26	0.22	0.18	0.16	0.14	0.12

(20℃,120Hz)

Low Temperature Stability (Impedance Ratio)

UR (V)	4	6.3	10	16	25	35	50
Z(−25℃) / Z(+20℃)	7	6	4	4	3	2	2
Z(−40℃) / Z(+20℃)	15	12	10	8	6	4	4

(120Hz)

Load Life

After 1000 hours' application of rated voltage with rated ripple current at 85℃, the capacitors shall meet the following requirement:

Capacitance change	Within ± 25% of the initial value .
Dissipation factor	Not more than 200% of the initial specified value.
Leakage current	Not more than the initial specified value.

Shelf Life

After storage for 500 hours at +85℃,the capacitors shall meet the requirement of load life above .

Rated Ripple Current & Frequency Multipliers

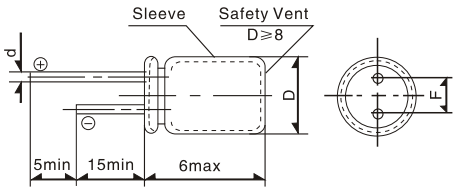
UR (V) \ Freq.	50Hz	120Hz	1kHz	10kHz~
6.3~16	0.8	1.0	1.1	1.2
25~35	0.8	1.0	1.5	1.7
50	0.8	1.0	1.6	1.9

Rated Ripple Current & Temperature Multipliers

Temperature	+50℃	+70℃	+85℃
Multipliers	1.50	1.27	1.00

CD11A Series

Dimensions



mm

D 0.5	4	5	6.3	8
F ± 0.5	0.45	0.45	0.45	0.45
d ± 0.05	1.5	2.0	2.5	2.5

Nominal capacitance,rated voltage,rated ripple current and case size table

U_R(V) / Item / C_R(μF)	4		6.3		10		16		25		35		50	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
0.10													4×5	1.0
0.15													4×5	1.5
0.22													4×5	2.5
0.33													4×5	4.0
0.47													4×5	6.0
0.68													4×5	7.0
1.0													4×5	8.6
1.5													4×5	8.7
2.2											4×5	9	4×5	9.1
3.3									4×5	11	4×5	12	4×5	13
4.7							4×5	11	4×5	13	4×5	14	5×5	20
6.8					4×5	10	4×5	13	4×5	19	5×5	20	6.3×5	26
10			4×5	14	4×5	16	4×5	18	5×5	27	5×5	27	6.3×5	31
15			4×5	18	4×5	22	5×5	26	5×5	33	6.3×5	35	6.3×5	39
22	4×5	20	4×5	22	5×5	30	5×5	35	6.3×5	46	6.3×5	46	8×5	60
33	4×5	27	5×5	34	5×5	45	6.3×5	51	6.3×5	54	8×5	65		
47	4×5	37	5×5	37	6.3×5	50	6.3×5	65	6.3×5	65	8×5	85		
68	5×5	45	6.3×5	55	6.3×5	59	6.3×5	70	8×5	90				
100	5×5	62	6.3×5	62	6.3×5	80	8×5	92	8×5	120				
220	6.3×5	74	8×5	120	8×5	145								
330	8×5	145	8×5	145	↑ Rated ripple current (mA rms) (85℃,120Hz)									