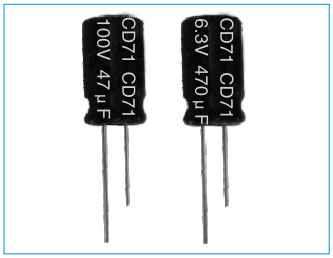
CD71 Series

- Bi–polarized and standard product,suited for use in polarity reverse and change circuits
- Load life of 2000 hours at 85℃

CD71C
↑ 7mmL
CD110 → Non–polar ← CD71 → Wid temp. CD71H



Specifications

Item	Characteristics
Operating Temperature Range	–40℃ ~ +85℃
Rated Voltage Range	6.3V~100V
Nominal Capacitance Range	0.1 μF~4700 μF
Capacitance Tolerance	M (± 20%) (20℃,120Hz)
Leakage Current	I≤0.03$C_R U_R$ +3(μA). C_R:Nominal capacitance (μF) U_R:Rated voltage(V) (20℃, after 4 minutes)

Dissipation Factor (Max)

U_R (V)	6.3	10	16	25	35	50	63	100
tan δ	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10
0.02 is added to every 1000 μF increase over 1000 μF.								

(20℃,120Hz)

Low Temperature Stability (Impedance Ratio)

U_R (V)	6.3	10	16	25	35~100
Z(–25℃) / Z(+20℃)	4	3	2	2	2
Z(–40℃) / Z(+20℃)	10	8	6	4	3

(120Hz)

Load Life

After 2000 hours' application of rated voltage with rated ripple current at 85℃,reverse polarty very 250 hours, the capacitors shall meet the following requirement:

Capacitance change	Within ± 20% 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 1000 hours at +85℃,the capacitors shall meet the requirement of load life above .

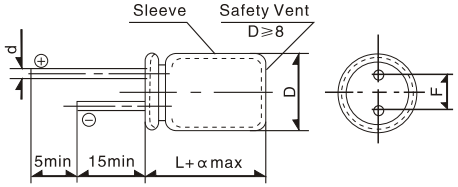
Rated Ripple Current & Frequency Multipliers

Cap. \ Freq.	50Hz	120Hz	300Hz	1kHz	10kHz~
0.1 μF~4.7 μF	0.65	1.00	1.35	1.75	2.30
100 μF~470 μF	0.75	1.00	1.25	1.50	1.75
100 μF~1000 μF	0.80	1.00	1.15	1.30	1.40
2200 μF~	0.85	1.00	1.03	1.05	1.08

Rated Ripple Current & Temperature Multipliers

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

Dimensions



(mm)

D	± 0.5			± 1.0							
	5	6.3	8	10		12.5		16		18	
L	11	11	11.5	12.5	16	20	20	25	25	31.5	35.5
F ± 0.5	2	2.5	3.5	5					7.5		
d ± 0.1	0.5			0.6					0.8		
α	1.5						2.0				

CD71 Series

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

U_R(V) / Item / C_R(μF)	6.3		10		16		25	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
4.7							5×11	28
10					5×11	40	5×11	42
22			5×11	54	5×11	58	5×11	61
33	5×11	60	5×11	64	5×11	71	6.3×11	82
47	5×11	72	5×11	76	6.3×11	96	6.3×11	97
100	6.3×11	120	6.3×11	126	8×11.5	162	10×12.5	183
220	8×11.5	209	8×11.5	218	10×12.5	281	10×16	316
330	8×11.5	250	10×12.5	331	10×16	376	10×20	448
470	10×12.5	361	10×16	417	10×20	496	12.5×20	521
1000	10×20	618	12.5×20	730	12.5×25	863	16×25	963
2200	12.5×25	1105	16×25	1293	16×31.5	1527		
3300	16×25	1502	16×31.5	1698	↑ Rated ripple current (mA rms) (85℃,120Hz)			
4700	16×31.5	1900	18×35.5	2185				

U_R(V) / Item / C_R(μF)	35		50		63		100	
	D×L mm	I~	D×L mm	I~	D×L mm	I~	D×L mm	I~
0.1			5×11	4			5×11	5
0.22			5×11	7			5×11	8
0.33			5×11	8			5×11	10
0.47			5×11	11			5×11	13
1.0			5×11	15			5×11	18
2.2			5×11	22	5×11	23	5×11	27
3.3			5×11	27	5×11	28	6.3×11	36
4.7	5×11	30	5×11	32	5×11	34	6.3×11	43
10	5×11	43	5×11	47	6.3×11	57	8×11.5	71
22	6.3×11	72	6.3×11	80	8×11.5	90	10×16	135
33	6.3×11	95	8×11.5	108	10×12.5	138	10×20	183
47	8×11.5	121	10×12.5	153	10×16	182	12.5×20	242
100	10×12.5	219	10×20	268	12.5×20	325	16×25	436
220	10×20	386	12.5×25	491	16×25	593	18×35.5	732
330	12.5×20	512	12.5×25	662				
470	12.5×25	665	16×25	847				
1000	16×25	1153	↑ Rated ripple current (mA rms)(85℃,120Hz)					