

ALUMINUM ELECTROLYTIC CAPACITOR (CD71 NP)

NP FEATURES

- Non - polarity standard for radial lead type
- Ideally suited for exchange polarity circuits

SPECIFICATIONS

Item	Performance Characteristics									
Operating Temperature Range	6.3V.DC-100V.DC									
Rated Voltage Range	-40°C~+85°C									
Nominal Capacitance Range	0.1μF~4700μF									
Capacitance Tolerance	±20%(M,+25°C 120Hz)									
Leakage Current	After application of rated voltage for 2 minutes : $I \leq 0.01CV$ or $3 \mu A$ (Whichever is greater) 25 °C C: Nominal Capacitance in μF ; V: Rated Working Voltage in V									
Dissipation Factor (tanδ)	When capacitance is over 1000 tanδ shall be added 0.02 with increase of every 1000 μF									
	Rated Working Voltage(V)	6.3	10	16	25	35	50	63	100	
	tanδ(MAX)(25°C,120Hz)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10	
Temperature Stability	Rated Working Voltage(V)	6.3	10	16	25	35	50	63	100	
	Impedance Ratio(120Hz)	4	3	2						
		10	8	6	4	3				
Load Life	After application of rated working voltage and maximum permissible ripple current specified at +85°C for 500x2 hours, capacitors meet the characteristics requirements measured at +25°C listed below									
	Leakage Current					Less than the initial specified value				
	tanδ					Less than 200% of the initial specified value				
	Capacitance Change					Within ±20% of the initial measured value				
Shelf Life	After leaving capacitors under no load at +85°C for 500 hours ,capacitors meet the characteristics listed above									

MULTIPLIER FOR RIPPLE CURRENT

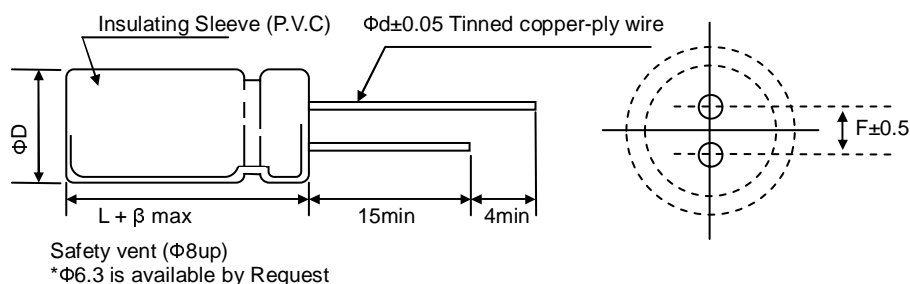
Frequency coefficient

Cap(μF) \ Freq(Hz)	50(60)	100(120)	1k	10k
0.1~47	0.8	1.0	1.30	1.50
68~1000	0.8	1.0	1.15	1.20
2200~4700	0.8	1.0	1.10	1.15

Temperature coefficient

Ambient Temperature(°C)	+85	+70	+50
Factor	1.0	1.6	2.0

CASE SIZE TABLE



β	0.5		1.0					
ΦD	5	6.3	8	10	12	13	16	18
$F \pm 0.5$	2.0	2.5	3.5	5			7.5	
$\Phi d \pm 0.1$	0.5		0.6			0.8		
L	11							
α	1.0		$L < 17: 1.0 \quad L \geq 17: 2.0$					

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

WV(V) Cap(μF)	6.3		10		16		25		35		50		63		100	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
0.1											5X11	4				
0.15											5X11	5				
0.22											5X11	7				
0.33											5X11	8				
0.47											5X11	10				
0.68											5X11	12				
1											5X11	14	5X11	14	5X11	16
1.5											5X11	18	5X11	18	5X11	19
2.2											5X11	21	5X11	23	6.3X11	24
3.3											5X11	25	5X11	28	6.3X11	34
4.7									5X11	28	5X11	31	5X11	34	6.3X11	41
6.8									5X11	34	5X11	37	6.3X11	47	8X12	50
10					5X11	39	5X11	40	5X11	42	6.3X11	45	6.3X11	57	8X12	70
15					5X11	47	5X11	48	6.3X11	51	6.3X11	55	8X12	69	8X16 (10X14)	85
22	5X11	47	5X11	52	5X11	58	5X11	60	6.3X11	71	8X12	77	8X12	89	10X20	136
33	5X11	58	5X11	63	6.3X11	71	6.3X11	84	8X12	87	8X12	111	8X16 (10X14)	144	10X20	181
47	5X11	69	5X11	75	6.3X11	97	6.3X11	100	8X12	122	8X16 (10X14)	157	10X17	188	12X20	248
68	6.3X11	83	6.3X11	91	8X12	114	8X12	120	8X16 (10X14)	149	10X20	191	10X20	229	13X25	303
100	6.3X11	115	6.3X11	126	8X12	167	8X12	210	10X17	212	10X20	273	12X20	343	16X25	458
150	8X12	141	8X12	221	8X12	200	8X16 (10X14)	256	10X17	259	13X20	333	13X20	418	16X30	559
220	8X12	202	8X12	271	8X16 (10X14)	294	10X17	332	12X20	375	13X20	506	16X25	645	18X35	837
330	8X12	247	8X16 (10X14)	322	10X17	394	10X20	444	13X20	526	13X20	620	16X30	786		
470	8X16 (10X14)	250	10X20	420	10X20	513	12X20	607	13X25	685	16X25	861	18X35	940		
680	10X17	420	10X20	504	13X20	616	13X25	741	16X25	836	16X30	1050				
1000	10X20	530	10X20	767	13X25	935	16X25	1120	16X30	1270	18X35	1282				
2200	13X20	840	16X25	1230	18X30	1500	18X30	1800								
3300	16X25	1090	16X30	1560	18X35	1915										
4700	16X30	1450	18X30	1930												

(1) Case Size D×L(mm)

(2) Max allowable ripple current (mA_{rms}+85°C120Hz)