

ALUMINUM ELECTROLYTIC CAPACITOR (CD296 LT)

LT FEATURES

- Wide temperature lone life with snap - in terminal series
- Top safety vent construction
- Ideally suited for switching power supplies, telecommunication and other electronic products

SPECIFICATIONS

Item	Performance Characteristics									
Rated Working Voltage Range	10V.DC~100V.DC					160V.DC~450V.DC				
Operating Temperature Range	-40°C ~+105 °C					-25°C ~+105°C				
Nominal Capacitance Range	470μF~68000μF					47μF~1500μF				
Capacitance Tolerance	+20%(M, +25°C,120Hz)									
Leakage Current	Leakage current shall be measured after application of rated working voltage for 5 minutes at +25°C C : Nominal Capacitance inμF · V : Rated Working Voltage in V									
Dissipation Factor (tanδ)	Rated Working Voltage (V)	10	16	25	35	50	63	100	160~250	400~450
	tanδ(MAX)(25°C,120Hz)	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20
Temperature Stability	Rated Working Voltage(V)		10~100			160~250			400~450	
	Impedance Ratio(120Hz)		4			3			8	
Load Life	After application of rated working voltage and maximum permissible current specified at +105°C for 2000 hours, capacitors meet the characteristics requirements at +25°C listed below									
	Leakage Current					Less than the initial specified value				
	tanδ					Less than 200% the initial specified value				
Shelf Life	Capacitance Change					Within ±20% of the initial measured value				
	After leaving capacitors under no load at +105°C for 1000 hours ,capacitors meet the characteristics listed above									

MULTIPLIER FOR RIPPLE CURRENT

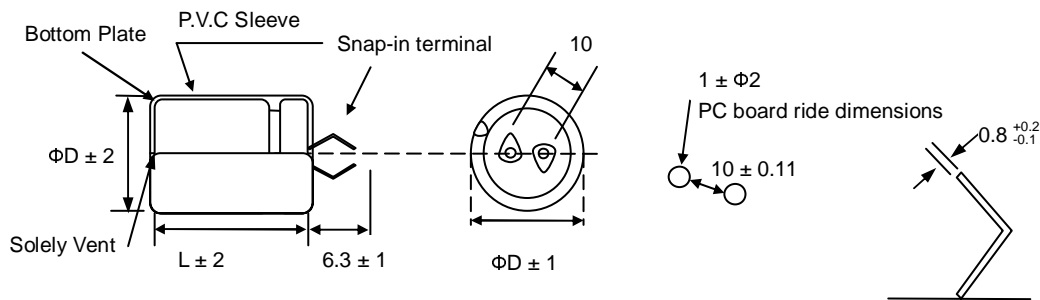
Frequency coefficient

Cap(μF) \ Freq(Hz)	50	60	120	1k	10k
10~100	0.88	0.90	1.00	1.10	1.15
160~250	0.80	0.80	1.00	1.14	1.18
400~450	0.78	0.80	1.00	1.10	1.15

Temperature coefficient

Ambient Temperature(°C)	+105	+85	+65
Factor	1.0	1.7	2.1

CASE SIZE TABLE



β	0.5		
ΦD	4	5	6.3
$F \pm 0.5$	1.5	2.0	2.5
$\Phi d \pm 0.1$	0.45	0.5	
L	7		
a	1.0		

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

uF \ V	10		16		25		35		50		63		100	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
470														
680													22x30 25x25	1.19
1000											22x25	1.10	22x40 25x30	1.47
1500											22x30 25x25	1.38	25x40 30x30	1.89
2200							22x25 22x30	1.31	22x30 25x25	1.46	22x40 25x30	1.66	25x50 30x40	2.48
3300							22x30 25x25	1.54	22x40 25x30	1.72	25x40 30x30	2.15	30x50 35x45	3.25
4700							25x30 25x25	1.87	25x40	2.72	30x40	2.77		
6800			22X25 25X25	1.66	22X30 25x25	1.88	22x40 25x30	2.28	30x40	2.91	30x40 35x50	3.61		
10000	22X25	1.65	22X30 25X30	2.07	22x40 25x30	2.38	25x40 30x40	2.78	30x50 35x45	3.97	30x60 35x50	4.69		
15000	22X30 25X25	2.11	25X30 30X30	2.54	25x40 30x40	3.00	30x40 30x50	3.88	35x6	4.76				
22000	25X40 30X30	2.59	25X40 30X40	3.31	30x40 35x40	3.92	30x60 30x50	5.08						
33000	25X50 30X40	3.43	30X50 35X45	4.33	30x60 35x50	5.13								
47000	30X50 35X45	4.58	30X60 35X50	5.49										
68000	30X60 35X50	5.50												

uF \ V	160		200		250		400		450	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
47							22x30	0.37	22x40	0.40
68							22x40	0.56	22x40	0.53
100							25x40	0.69	25x40	0.64
150			22x25 25x25	0.83	22x40	0.85	30x40	0.82	30x40	0.79
220	22x30 25x25	1	22x40 25x25	1.00	25x40	1.00	35x40	1.00	35x40	1.00
330	25x30	1.20	25x40	1.20	25x40	1.20	35x50	1.20	35x50	1.38
470	25x40 30x30	1.40	30x40	1.40	30x40	1.40	35x60	1.40	35x60	1.50
680	30x40	1.70	35x40	1.70	35x50	1.70				
1000	30x50 35x40	2.20	35x50	2.20	35x60	2.20				
1500	30x60 35x50	2.50								

(1) Case Size DxL(mm)

(2) Max allowable ripple current (mArms+105°C120Hz)