ALUMINUM ELECTROLYTIC CAPACITOR (CD288H LE)

LE FEATURES

- Wide temperature high frequency and ultra low impedance
- φD≥8mm with top safety vent construction
- For switching power supplies and other industrial electronic products applications

SPECIFICATIONS

Item	Performance Characteristics								
Rated Voltage Range	6.3V.DC~100V.DC								
Operating Temperature Range	-40°C~+105°C								
Nominal Capacitance Range	0.1μF~10000μF								
Capacitance Tolerance	±20%(M,+25°C,120Hz)								
Leakage Current	After application of rated voltage for 2 minutes: I≤0.01CV or 3μA(Whichever is greater)25°C C: Nominal Capacitance in μF; V: Rated Working Voltage in V								
Dissipation Factor (tanδ)	When capacitance is over 1000μF, tanδ shall be added 0.02 with increase of every 1000μF								
	Rated Working Voltage(V)	6.3	10	16	25	35	50	63	100
	tanδ(MAX) (25°C,120Hz)	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08
Temperature Stability	Rated Working Voltage		6.3~16		25~100				
	Impedance Ratio (120Hz)	Z-25°C/Z+20°C	5		4				
		Z-40°C/Z+20°C	7		3				
Load Life	After application of rated working voltage and maximum permissible ripple current specified at +105°C for 1000 hours, Capacitors meet the characteristics requirements measured at +25°C listed below:								
	Leakage Current		Less than the initial specified value						
	tanδ		Less than 150% of the initial specified value or 0.4						
	Capacitance Change		Within ±20% of the initial measured value						
Shelf Life	After Leaving capacitor under no load at +105°C for 500 hours, Capacitors meet the characteristics listed above.								

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Cap(uF) \ Freq(Hz)		50(60)	100(120)	1K	10K
6.3~35		0.8	1	1.1	1.2
50~63	＞1000	0.8	1	1.2	1.3
	≤1000	0.8	1	1.5	1.7
100~250	＞1000	0.8	1	1.2	1.3
	≤1000	0.8	1	1.6	1.9
350~450		0.8	1	1.3	1.5

Temperature coefficient

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

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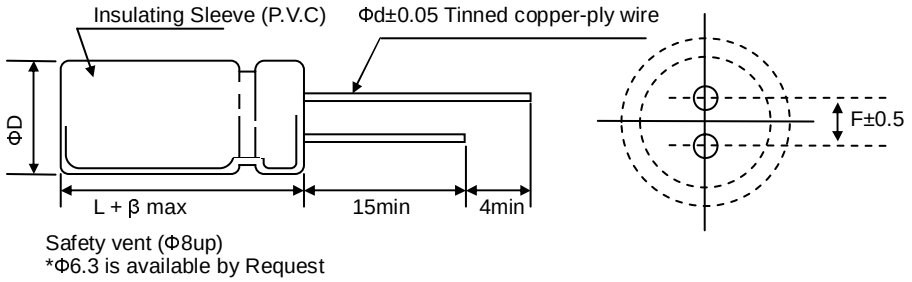
CASE SIZE TABLE



β	0.5		1.0				
ΦD	5	6.3	8	10	12,13	16	18
F±0.5	2.0	2.5	3.5	5		7.5	
Φd±0.1	0.5		0.6			0.8	
L	11		12,16	14,17,20	20,25	25,30	30,35,40
α	1.0		L<17:1.0; L≥17:2.0				

DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

WV(V) / CAP	6.3			10			16			25			35		
	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
33													6.3x11	0.58	210
47										6.3x11	0.58	210	6.3x11	0.35	200
100				6.3x11	0.58	210				8x12	0.22	340	8x12	0.25	450
220				8x12	0.22	340				8x16	0.13	640	10x14	0.080	840
330	8x12	0.22	340	8x12	0.20	450	8x12	0.13	640	10x14	0.080	840	10x17	0.060	1210
470	8x12	0.20	450	8x12	0.13	640	8x16 (10x14)	0.087	840	10x14	0.060	1050	10x20	0.049	1400
680	8x16 (10x14)	0.13	640	10x14	0.087	840	10x17	0.069	1050	10x20	0.046	1400	13x20	0.031	1900
1000	8x16 (10x14)	0.087	840	10x14	0.060	1050	10x20	0.046	1400	13x20	0.031	1900	13x25	0.027	2210
1500	10x20	0.046	1400	10x20	0.042	1450	13x20	0.035	1900	13x25	0.027	2230	16x25	0.020	2880
2200	10x20	0.042	1650	13x20	0.031	1940	13x25	0.027	2210	16x25	0.020	2860	16x30	0.017	3140
3300	13x20	0.035	1900	13x25	0.027	2230	16x25	0.020	2880	16x3.	0.017	3140	18x35	0.013	4080
4700	16x25	0.024	2650	16x25	0.020	2880	16x30	0.017	3140	18x35	0.013	4080			
6800	16x30	0.017	2860	18x30	0.017	3140	18x30	0.013	4080						
10000	18x30	0.015	3140	18x40	0.013	4080									

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WV(V) / CAP	50			63			100		
	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
22	6.3x11	0.70	180						
33	6.3x11	0.50	230	6.3x11	1.2	115			
47	6.3x11	0.40	280	8x12	1.0	280	10x14	0.43	288
100	8x12	0.17	555	10x17	0.8	400	12x20	0.20	531
220	10x17	0.084	1050	12x20	0.20	531	16x25	0.091	905
330	12x20	0.055	1440	13x25	0.12	784	16x30	0.071	1180
470	13x20	0.043	1660	16x25	0.091	905	18x30	0.045	1630
180	16x25	0.030	2310	16x30	0.071	1180	18x35	0.040	1790
1000	16x30	0.21	2490	18x30	0.045	1630			
1500	13x30	0.019	3150						
2200	18x35	0.017	3680						

(1) Case Size D×L(mm)
(2) Impedance at 100KHz+20°C(Ω)
(3)Max allowable ripple current (mArms +105°C,100KHz)