

Aluminum Electrolytic Capacitors



Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

CE-LX Series

Low Impedance

Long Life



- 105°C, 2,000 to 5,000hrs
- Solvent proof (within 2 minutes)

Specifications

Items	Condition	Specifications									
Rated voltage (V)	—	6.3	10	16	25	35	50	60	100		
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	79	125		
Category temperature range (°C)	—	-55 to +105									
Capacitance tolerance (%)	120Hz/20°C	M : ±20									
Dissipation Factor (DF)	120Hz/20°C	φ 4 to φ 6.3	0.26	0.20	0.16	0.14	0.12	0.12	—	—	
		φ 8 to φ 16	0.28	0.24	0.22	0.16	0.14	0.14	0.08	0.07	
Leakage current (LC)	μA/after 2minutes (max)	When rated capacitance exceeds 1,000 μF, add 0.02 to the value above for each 1,000 μF increase.									
Impedance ratio at low temperature	Based the value at 120Hz, +20°C	Test	The greater value of either 0.01CV or 3								
		-40°C Z/Z _{20°C}	3	3	3	3	3	3	3	2	2
		-55°C Z/Z _{20°C}	4	4	4	3	3	3	3	3	
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ 4 to φ 6.3 : 2,000hrs., φ 8 to φ 16 : 5,000hrs.								
		ΔC/C	Within ±30% of the initial value								
		tan δ	≤ 3 times the initial specified value								
		LC	≤ The initial specified value								

Marking, Dimensions

[φD≤10]
Polarity (Cathode)
Lot No.
80
470
16 L
Rated Capacitance
Series Symbol
Rated Voltage(6.3V →6)

[φD≥12.5]
Polarity (Cathode)
Lot No.
80T
3300
16 L
Indicated Only φD=16
Rated Capacitance
Series Symbol
Rated Voltage(6.3V →6)
A pressure relief vent is attached to products over φ D=8

(Unit : mm)

D ^{+0.5max}	L ^{±0.3}	W ^{±0.2}	H ^{+0.2}	C ^{±0.2}	R	P ^{±0.2}
4	6.0	4.3	4.3	5.0	0.5 to 0.8	1.0
5	6.0	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	6.0	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.2	10.3	10.3	11.0	1.0 to 1.4	4.6
12.5	13.5 ^{±0.5}	12.8	12.8	13.5	1.0 to 1.4	4.6
16	16.5 ^{±0.5}	16.3	16.3	17.3	1.8 to 2.1	7.0

SMD Type

CE-LX Series

Size List, Impedance, Rated Ripple Current

μF \ V	6.3	10	16	25	35	50	63	100
4.7					4 x 6.0 1.45 90	4 x 6.0 2.9 60		
10				4 x 6.0 1.45 90	5 x 6.0 0.70 170	6.3 x 6.0 0.88 165		
15			4 x 6.0 1.45 90	5 x 6.0 0.70 170	5 x 6.0 0.70 170	6.3 x 6.0 0.88 165		
22		4 x 6.0 1.45 90	5 x 6.0 0.70 170	5 x 6.0 0.70 170	5 x 6.0 0.70 170	6.3 x 6.0 0.88 165		
27	4 x 6.0 1.45 90	5 x 6.0 0.70 170	5 x 6.0 0.70 170	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.88 165		
33	5 x 6.0 0.70 170	5 x 6.0 0.70 170	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.68 195		10 x 10.2 0.65 200
47	5 x 6.0 0.70 170	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.68 195		12.5 x 13.5 0.32 500
56	5 x 6.0 0.70 170	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.30 300	8 x 10.2 0.34 300		
68	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.30 300	8 x 10.2 0.34 300		12.5 x 13.5 0.32 500
100	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.30 300	8 x 10.2 0.17 450	8 x 10.2 0.34 300		16 x 16.5 0.17 793
150	6.3 x 6.0 0.39 250	6.3 x 6.0 0.39 250	6.3 x 7.7 0.30 300	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.18 490	12.5 x 13.5 0.16 580	16 x 16.5 0.17 793
220	6.3 x 6.0 0.39 250	6.3 x 7.7 0.30 300	6.3 x 7.7 0.30 300	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.18 490	12.5 x 13.5 0.16 580	
330	6.3 x 7.7 0.30 300	8 x 10.2 0.17 450	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.090 670	12.5 x 13.5 0.12 620		
470	8 x 10.2 0.17 450	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.090 670	12.5 x 13.5 0.060 900	16 x 16.5 0.073 1610	16 x 16.5 0.082 1410	
680	8 x 10.2 0.17 450	10 x 10.2 0.090 670	10 x 10.2 0.090 670	12.5 x 13.5 0.060 900	12.5 x 13.5 0.060 900	16 x 16.5 0.073 1610		
1000	8 x 10.2 0.17 450	10 x 10.2 0.090 670	12.5 x 13.5 0.060 900	12.5 x 13.5 0.060 900	16 x 16.5 0.035 1800	16 x 16.5 0.073 1610		
1500	10 x 10.2 0.090 670	12.5 x 13.5 0.060 900	12.5 x 13.5 0.060 900	16 x 16.5 0.035 1800	16 x 16.5 0.035 1800			
2200	12.5 x 13.5 0.060 900	12.5 x 13.5 0.060 900		16 x 16.5 0.035 1800				
3300			16 x 16.5 0.035 1800					
4700		16 x 16.5 0.035 1800						
6800	16 x 16.5 0.035 1800							

Please refer to page 19 for the ripple current frequency coefficient.

Case size ; ϕ D x L (mm)
16 x 16.5; CE-LXT series

Rated ripple current
mA rms (100kHz, 105°C)

Impedance (Ω)
max at 100kHz, 20°C

Model No.

