

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

CE-LX Series

Long Life

Low Impedance



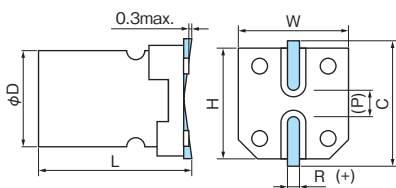
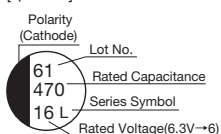
- 105°C 2,000 to 5,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

Specifications

Items	Condition		Specifications								
Rated voltage (V)	—		6.3	10	16	25	35	50	63	80	100
Surge voltage (V)	Room temperature		8.0	13	20	32	44	63	79	100	125
Category temperature range (°C)	—		-55 to +105								
Capacitance tolerance (%)	120Hz/20°C		M : ±20								
Dissipation Factor(tan δ)	tanδ(max.) 120Hz/20°C	φ4 to φ6.3	0.26	0.20	0.16	0.14	0.12	0.12	0.08	0.08	0.07
		φ8 to φ18	0.28	0.24	0.22	0.16	0.14	0.14	0.08	0.08	0.07
		Exceeding 1,000μF, +0.02 every 1,000μF									
Leakage current(LC)	μA/after 2minutes (max.), 20°C		The greater value of either 0.01CV or 3								
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C Z/Z _{20°C}	3	3	3	3	3	3	2	2	2
		-55°C Z/Z _{20°C}	4	4	4	3	3	3	3	3	3
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ4 to φ6.3 : 2,000hours, φ8 to φ18 : 5,000hours								
		ΔC/C	Within ±30% of the initial value								
		tanδ	Not more than 300% of the specified value								
		LC	Not more than the specified value								
Shelf Life	105°C, 1,000hours(with no voltage load)		Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.								

Marking, Dimensions

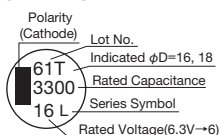
[φD≤10]



A pressure relief vent is provided for φD=8 or bigger

(P)reference size

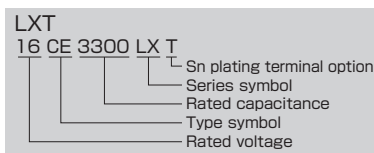
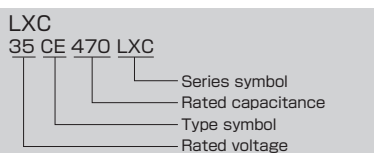
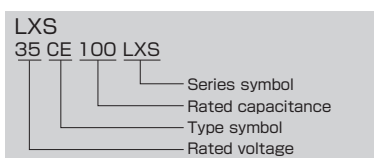
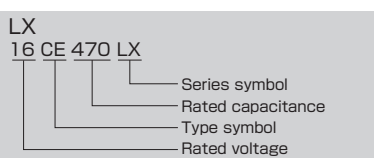
[φD≥12.5]



(Unit : mm)

D ^{±0.5}	L ^{±0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P
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
10	13.5 ^{±0.5}	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	1.7 to 2.1	7.0
18	16.5 ^{±1.0}	19.0	19.0	20.0	1.7 to 2.1	7.0
18	21.5 ^{±1.0}	19.0	19.0	20.0	1.7 to 2.1	7.0

Part number



Please refer to page 17 for anti-vibration structure.

■ Size, Impedance, Rated Ripple Current

μF \ V	6.3	10	16	25	35
4.7					4x6.0 1.45 90
10				4x6.0 1.45 90	4x6.0 ★1 1.45 90
15			4x6.0 1.45 90	→	5x6.0 0.70 170
22		4x6.0 1.45 90	→	→	5x6.0 0.70 170
27	4x6.0 1.45 90	→	5x6.0 0.70 170	→	6.3x6.0 0.39 250
33	→	5x6.0 0.70 170	→	→	6.3x6.0 0.39 250
47	5x6.0 0.70 170	→	→	→	6.3x6.0 0.39 250
56	5x6.0 0.70 170	→	→	6.3x6.0 0.39 250	6.3x7.7 0.30 300
68	→	→	→	6.3x6.0 0.39 250	6.3x7.7 0.30 300
100	5x6.0 ★1 0.70 170	→	6.3x6.0 0.39 250	6.3x7.7 0.30 300	6.3x7.7 ★1 0.30 300
150	→	6.3x6.0 0.39 250	6.3x7.7 0.30 300	→	8x10.2 0.17 600
220	6.3x6.0 0.39 250	→	6.3x7.7 0.30 300	→	8x10.2 0.17 600
330	6.3x7.7 0.30 300	→	→	8x10.2 0.17 600	10x10.2 0.090 850
470	→	→	8x10.2 0.17 600	10x10.2 0.090 850	10x13.5 ★2 0.070 950
680	8x10.2 0.17 600	→	10x10.2 0.090 850	10x13.5 ★2 0.070 950	12.5x13.5 0.060 1100
1000	8x10.2 0.17 600	10x10.2 0.090 850	→	12.5x13.5 0.060 1100	16x16.5 0.035 1800
1500	10x10.2 0.090 850	→	12.5x13.5 0.060 1100	→	16x16.5 0.035 1800
2200	→	12.5x13.5 0.060 1100		16x16.5 0.035 1800	18x16.5 0.033 2060
2700					18x21.5 0.028 2260
3300			16x16.5 0.035 1800	18x16.5 0.033 2060	
3900				18x21.5 0.028 2260	
4700		16x16.5 0.035 1800	18x16.5 0.033 2060		
5600			18x21.5 0.028 2260		
6800	16x16.5 0.035 1800	18x16.5 0.033 2060			
8200	18x16.5 0.033 2060	18x21.5 0.028 2260			
10000	18x16.5 0.033 2060				
12000	18x21.5 0.028 2260				

μF \ V	50	63	80	100
4.7	4x6.0 2.90 60			
10	6.3x6.0 0.88 165	6.3x6.0 1.50 80	→	6.3x7.7 2.40 60
22	6.3x6.0 0.88 165	6.3x7.7 1.20 120	→	8x10.2 1.30 130
27	6.3x7.7 0.68 195			
33	6.3x7.7 0.68 195	8x10.2 0.65 250		10x10.2 0.65 200
47	6.3x7.7 0.68 195	8x10.2 0.65 250	10x10.2 0.65 200	12.5x13.5 0.32 500
56	8x10.2 0.34 350			
68	8x10.2 0.34 350			12.5x13.5 0.32 500
100	8x10.2 0.34 350	10x10.2 ★1 0.30 480		
150	10x10.2 0.18 670	12.5x13.5 0.16 800	12.5x13.5 0.32 500	16x16.5 0.17 793
220	10x10.2 0.18 670	12.5x13.5 0.16 800		16x16.5 0.17 793
330	12.5x13.5 0.12 900	16x16.5 0.082 1410	16x16.5 0.17 793	18x16.5 0.153 917
470	16x16.5 0.073 1610	16x16.5 0.082 1410	18x16.5 0.153 917	
680	16x16.5 0.073 1610	18x16.5 0.080 1690		
1000	16x16.5 0.073 1610	18x21.5 0.055 1960		
1200	18x16.5 0.068 1900			
1500	18x21.5 0.042 2180			

→Please use the higher voltage model in the next.
Please refer to page 16 for
ripple current frequency coefficients.

★1 LXS
★2 LXC

Impedance(Ω)
max. at 100kHz, 20°C
Case size:φDxL(mm)
φ16, φ18:CE-LXT
Rated ripple current
mA rms(100kHz, 105°C)