

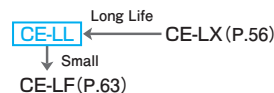
# CE-LL Series

Low Impedance

Long Life



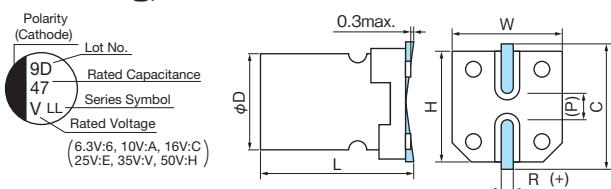
- 105°C 7,000 to 10,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200



## Specifications

Items	Condition	Specifications							
Rated voltage (V)	—	6.3	10	16	25	35	50		
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63		
Category temperature range (°C)	—	-40 to +105							
Capacitance tolerance (%)	120Hz/20°C	M : ±20							
Dissipation Factor (tan δ)	tanδ (max.) 120Hz/20°C	0.32	0.28	0.26	0.16	0.14	0.14		
Leakage current (LC)	μA/after 2minutes (max.)	The greater value of either 0.01CV or 3							
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z <sub>20°C</sub>	4	3	2	2	2	2
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φD ≥ 6.3 : 7,000hours, φD ≥ 8 : 10,000hours						
		ΔC/C	Within ±30% of the initial value						
		tanδ	Less than 300% of the specified value						
		LC	Less than the specified value						

## Marking, Dimensions



(Unit : mm)

D <sup>±0.5</sup>	L <sup>±0.3</sup>	W <sup>±0.2</sup>	H <sup>±0.2</sup>	C <sup>±0.2</sup>	R	P
5	7.0	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	7.0	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	8.4	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

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

(P)reference size

## Size, Impedance, Rated Ripple Current

μF	V	6.3		10		16		25		35		50					
10										5×7.0	2.2	95					
22						5×7.0	2.2	95	5×7.0	2.2	95	6.3×8.4	1.8	100			
33				5×7.0	2.2	95			6.3×7.0	1.1	140	6.3×8.4	1.0	230	8×10.2	0.53	350
47	5×7.0	2.2	95			6.3×7.0	1.1	140	6.3×7.0	1.1	140	6.3×8.4	1.0	230	8×10.2	0.53	350
100	6.3×7.0	1.1	140			6.3×7.0	1.1	140	6.3×8.4	1.0	230	8×10.2	0.22	600	10×10.2	0.35	670
150				6.3×7.0	1.1	140	6.3×8.4	1.0	230	8×10.2	0.22	600					
220	6.3×8.4	1.0	230			6.3×8.4	1.0	230	8×10.2	0.22	600	10×10.2	0.16	850			
330	6.3×8.4	1.0	230			8×10.2	0.22	600	10×10.2	0.16	850						
470	8×10.2	0.22	600			10×10.2	0.16	850									
1000	10×10.2	0.16	850														

Please refer to page 14 for ripple current frequency coefficients.

Impedance(Ω) max. at 100kHz, 20°C

Rated ripple current mAmps(100kHz, 105°C)

Case size:φDxL(mm)

## Part number

