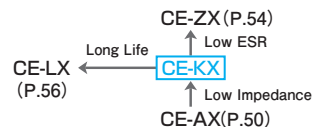


# CE-KX Series

Low Impedance



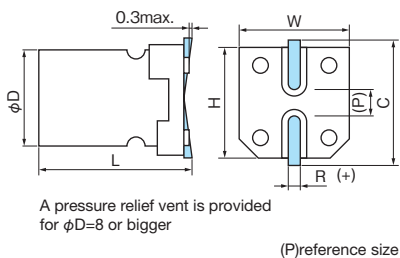
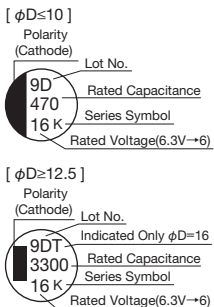
- 10 to 20% less impedance than CE-AX series at high frequencies.
- 105°C 1,000 to 2,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200



## 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)	tan δ (max.) 120Hz/20°C	φ4 to φ6.3	0.24	0.20	0.16	0.14	0.12	0.12	0.10	0.08	0.07	
		φ8 to φ16	0.28	0.24	0.20	0.16	0.14	0.14	0.12	0.10	0.08	
Leakage current (LC)	μA/after 2minutes (max.)	Exceeding 1,000μF, +0.02 every 1,000μF										
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C Z/Z <sub>20°C</sub>	3	2	2	2	2	2	2	2	2	
		-55°C Z/Z <sub>20°C</sub>	5	4	4	3	3	3	3	3	3	
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ4 to φ6.3 : 1,000hours, φ8 to φ16 : 2,000hours									
		ΔC/C	Within ±25% of the initial value									
		tan δ	Less than 200% 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
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 <sup>±0.5</sup>	12.8	12.8	13.5	1.0 to 1.4	4.6
16	16.5 <sup>±0.5</sup>	16.3	16.3	17.3	1.7 to 2.1	7.0

**Size, Impedance, Rated Ripple Current**

$\mu\text{F}$ \ V	6.3			10			16			25			35				
4.7														4x6.0	1.45	90	
10											4x6.0	1.45	90	5x6.0	0.70	170	
15								4x6.0	1.45	90	5x6.0	0.70	170	5x6.0	0.70	170	
22						4x6.0	1.45	90	5x6.0	0.70	170	5x6.0	0.70	170	5x6.0	0.70	170
27	4x6.0	1.45	90														
33	→			5x6.0	0.70	170		→			6.3x6.0	0.39	250	6.3x6.0	0.39	250	
47	5x6.0	0.70	170	→				6.3x6.0	0.39	250	6.3x6.0	0.39	250	6.3x6.0	0.39	250	
56	5x6.0	0.70	170								6.3x6.0	0.39	250				
68	→			6.3x6.0	0.39	250		6.3x6.0	0.39	250	6.3x6.0	0.39	250	6.3x7.7	0.30	300	
100	6.3x6.0	0.39	250	→				6.3x6.0	0.39	250	6.3x7.7	0.30	300	8x10.2	0.15	600	
150	6.3x6.0	0.39	250	6.3x6.0	0.39	250		6.3x7.7	0.30	300		8x10.2	0.15	600	8x10.2	0.15	600
220	6.3x6.0	0.39	250	6.3x7.7	0.30	300		6.3x7.7	0.30	300		8x10.2	0.15	600	8x10.2	0.15	600
330	6.3x7.7	0.30	300	8x10.2	0.15	600		8x10.2	0.15	600		8x10.2	0.15	600	10x10.2	0.080	850
470	8x10.2	0.15	600	8x10.2	0.15	600		8x10.2	0.15	600		10x10.2	0.080	850	12.5x13.5	0.058	1150
680	8x10.2	0.15	600	→				10x10.2	0.080	850				12.5x13.5	0.058	1150	
1000	8x10.2	0.15	600	10x10.2	0.080	850					12.5x13.5	0.058	1150	16x16.5	0.035	1800	
1500	10x10.2	0.080	850					12.5x13.5	0.058	1150				16x16.5	0.035	1800	
2200				12.5x13.5	0.058	1150					16x16.5	0.035	1800				
3300	12.5x13.5	0.058	1150					16x16.5	0.035	1800							
4700				16x16.5	0.035	1800											
6800	16x16.5	0.035	1800														

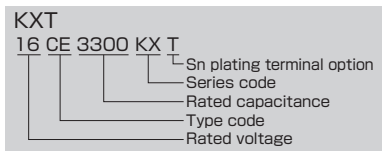
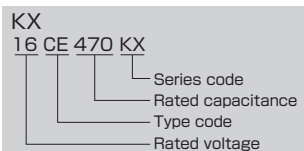
$\mu\text{F}$ \ V	50			63			80			100		
2.2										6.3x6.0	2.70	42
3.3										6.3x6.0	2.40	45
4.7	4x6.0	2.55	64	5x6.0	2.00	55	6.3x6.0	2.40	45	6.3x6.0	2.40	45
10	6.3x6.0	0.52	215	6.3x6.0	1.00	90	6.3x7.7	2.00	65	6.3x7.7	2.00	65
22	6.3x6.0	0.52	215	6.3x7.7	0.80	135	8x10.2	0.90	140	8x10.2	0.90	140
33	6.3x7.7	0.44	243	8x10.2	0.35	280	8x10.2	0.90	140	10x10.2	0.50	220
47	6.3x7.7	0.44	243	8x10.2	0.35	280	10x10.2	0.50	220	12.5x13.5	0.24	500
68				8x10.2	0.35	280	12.5x13.5	0.24	500	12.5x13.5	0.24	500
100	8x10.2	0.22	400	10x10.2	0.20	480	12.5x13.5	0.24	500	16x16.5	0.14	800
150							12.5x13.5	0.24	500	16x16.5	0.14	800
220	10x10.2	0.13	585	12.5x13.5	0.14	800						
330	12.5x13.5	0.10	800				16x16.5	0.14	800			
470				16x16.5	0.065	1410						
1000	16x16.5	0.060	1610									

→Please use the higher voltage model in the next.  
Please refer to page 14 for ripple current frequency coefficients.

Case size:  $\phi$ DxL (mm)  
16x16.5:CE-KXT

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

Impedance( $\Omega$ )  
max. at 100kHz, 20°C

**Part number**

 Surface Mount Type  
Aluminum Electrolytic Capacitors

- CE-BE
- CE-BD
- CE-BS
- CE-BSS
- CE-FE
- CE-LD
- CE-FSS
- CE-FS
- CE-FS(High Voltage)
- CE-FH
- CE-AX
- CE-KX**
- CE-ZX
- CE-ZC
- CE-LX
- CE-GA
- CE-LS
- CE-LH
- CE-LH(High Voltage)
- CE-LL
- CE-LF
- CE-PC
- CE-PH
- CE-PS
- CE-PF
- CE-TH
- CE-JX
- CE-NP
- CE-FN