

CE-KX Series

Low Impedance

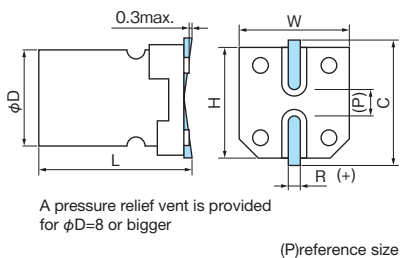
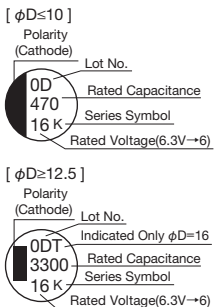


- 10 to 20% less impedance than CE-AX series at high frequencies.
- 105°C 1,000 to 2,000hours ● Solvent proof (within 2 minutes)
- AEC-Q200

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
		Exceeding 1,000μF, +0.02 every 1,000μF									
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	-40°C Z/Z _{20°C}	3	2	2	2	2	2	2	2	2
		-55°C Z/Z _{20°C}	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 ^{±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
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

■ 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	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													

μF \ 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									

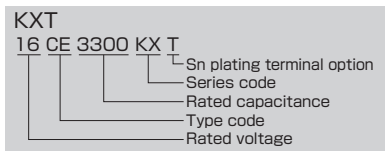
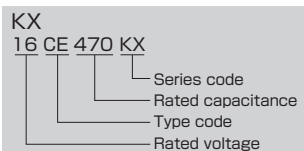
→Please use the higher voltage model in the next.
Please refer to page 14 for ripple current frequency coefficients.

Case size: ϕ DxL (mm)
16x16.5: CE-KXT

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

Impedance (Ω)
max. at 100kHz, 20°C

■ Part number



- Aluminum Electrolytic Capacitors
- Surface Mount Type
- CE-BD
 - CE-BSS
 - CE-BS
 - 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