

CE-AX Series

Low Impedance



- 105°C 1,000 to 2,000hours
- We recommend CE-LX series on page 50.
- 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)	—		-55 to +105					
Capacitance tolerance (%)	120Hz/20°C		M : ±20					
Dissipation Factor(tan δ)	tanδ(max.) 120Hz/20°C	φ4 to φ6.3	0.24	0.20	0.16	0.14	0.12	0.12
		φ8 to φ16	0.28	0.24	0.20	0.16	0.14	0.14
		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	2	2	2	2	2
		-55°C Z/Z _{20°C}	5	4	4	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					
		tanδ	Not more than 200% 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]

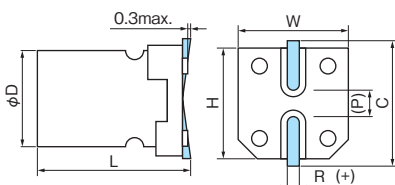
Polarity
(Cathode)

Lot No.
4D
470
16A
Rated Capacitance
Series Symbol
Rated Voltage(6.3V→6)

[φD≥12.5]

Polarity
(Cathode)

Indicated Only φD=16
4DT
4700
10A
Rated Capacitance
Series Symbol
Rated Voltage(6.3V→6)



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

(P)reference size

(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	50
4.7						4x6.0 1.80 80	4x6.0 2.90 60
10					4x6.0 1.80 80	5x6.0 0.76 150	6.3x6.0 0.88 165
15				4x6.0 1.80 80	→	5x6.0 0.76 150	
22			4x6.0 1.80 80	→	→	5x6.0 0.76 150	6.3x6.0 0.88 165
27	4x6.0 1.80 80						
33	→	5x6.0 0.76 150	→	→	→	6.3x6.0 0.44 230	6.3x7.7 0.68 195
47	5x6.0 0.76 150	→	→	→	→	6.3x6.0 0.44 230	6.3x7.7 0.68 195
56	5x6.0 0.76 150				6.3x6.0 0.44 230		
68	→	→	→	6.3x6.0 0.44 230	6.3x7.7 0.34 280		
100	6.3x6.0 0.44 230	→	6.3x6.0 0.44 230	6.3x7.7 0.34 280	8x10.2 0.17 450	8x10.2 0.39 300	
150	→	6.3x6.0 0.44 230	6.3x7.7 0.34 280	→	8x10.2 0.17 450	10x10.2 0.21 450	
220	6.3x6.0 0.44 230	→	6.3x7.7 0.34 280	→	8x10.2 0.17 450	10x10.2 0.21 450	
330	6.3x7.7 0.34 280	→	→	8x10.2 0.17 450	10x10.2 0.090 670	12.5x13.5 0.14 620	
390						12.5x13.5 0.14 620	
470	→	→	8x10.2 0.17 450	10x10.2 0.090 670	12.5x13.5 0.066 900		
680	8x10.2 0.17 450	→	10x10.2 0.090 670		12.5x13.5 0.066 900		
1000	8x10.2 0.17 450	10x10.2 0.090 670		12.5x13.5 0.066 900		16x16.5 0.078 790	
1500	10x10.2 0.090 670		12.5x13.5 0.066 900		16x16.5 0.052 1250		
2200		12.5x13.5 0.066 900		16x16.5 0.052 1250			
3300	12.5x13.5 0.066 900		16x16.5 0.052 1250				
4700		16x16.5 0.052 1250					
6800	16x16.5 0.052 1250						

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

Case size: $\phi D \times L$ (mm)
16x16.5:CE-AXT

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

Impedance (Ω)
max. at 100kHz, 20°C

Part number

AX	
16 CE 470 AX	
Series symbol	
Rated capacitance	
Type symbol	
Rated voltage	

AXT	
10 CE 4700 AX T	
Sn plating terminal option	
Series symbol	
Rated capacitance	
Type symbol	
Rated voltage	