Aluminum Electrolytic Type / Surface Mount Type **RoHS compliance**

CE-AX Series

Low Impedance

- 105℃, 1,000 to 2,000hours
- Solvent proof (within 2 minutes)

CE-KX (P.50) ↑ Low Impedance
CE-LS (P.53) ← Long Life — CE-AX

■ Specifications

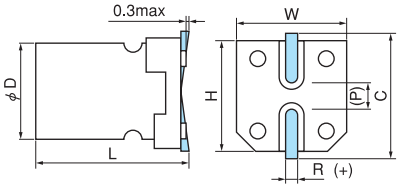
Items	Condition		Specifications					
Rated voltage (V)	–		6.3	10	16	25	35	50
Surge voltage (V)	Room temperature		8.0	13	20	32	44	63
Category temperature range (℃)	–		−55 to +105					
Capacitance tolerance (%)	120Hz/20℃		M : ±20					
Dissipation Factor (tanδ)	tanδ (max) 120Hz/20℃	φ4 to φ6.3	0.24	0.20	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)		The greater value of either 0.01CV or 3					
Impedance ratio at low temperature	Based the value at 120Hz, +20℃	−40℃ Z/Z20℃	3	2	2	2	2	2
		−55℃ Z/Z20℃	5	4	4	3	3	3
Endurance	105℃ rated voltage applied (With the rated ripple current)	Test	φ4 to φ6.3, φ10 × 7.7 : 1,000hours, φ8 to φ16 : 2,000hours					
		△C/C	Within ±25% of the initial value					
		tanδ	Less than 200% of the specified value					
		LC	Less than the specified value					

■ Marking, Dimensions

(Unit : mm)

[φD≤10]
Polarity (Cathode)
Lot No.
Rated Capacitance
7N 470 16 A
Series Symbol
Rated Voltage(6.3V→6)

[φD≥12.5]
Polarity (Cathode)
Lot No.
Indicated Only φD=16
7NT 4700 10 A
Rated Capacitance
Series Symbol
Rated Voltage(6.3V→6)



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

(P)reference size

D +0.5max	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	7.7	10.3	10.3	11.0	1.0 to 1.4	4.6
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													4×6.0	1.80	80	4×6.0	2.90	60
10										4×6.0	1.80	80	5×6.0	0.76	150	6.3×6.0	0.88	165
15							4×6.0	1.80	80	5×6.0	0.76	150	5×6.0	0.76	150			
22				4×6.0	1.80	80	5×6.0	0.76	150	5×6.0	0.76	150	5×6.0	0.76	150	6.3×6.0	0.88	165
27	4×6.0	1.80	80															
33	→			5×6.0	0.76	150	→			6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×7.7	0.68	195
47	5×6.0	0.76	150	→			6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×7.7	0.68	195
56	5×6.0	0.76	150							6.3×6.0	0.44	230						
68	→			6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×7.7	0.34	280			
100	6.3×6.0	0.44	230	→			6.3×6.0	0.44	230	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.39	300
150	6.3×6.0	0.44	230	6.3×6.0	0.44	230	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.21	450
										→			10×7.7	0.17	450			
220	6.3×6.0	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.21	450
										10×7.7	0.17	450						
330	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.090	670	12.5×13.5	0.14	620
				→			10×7.7	0.17	450									
390																12.5×13.5	0.14	620
470	8×10.2	0.17	450	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.090	670	12.5×13.5	0.066	900			
				10×7.7	0.17	450												
680	8×10.2	0.17	450	→			10×10.2	0.090	670				12.5×13.5	0.066	900			
	10×7.7	0.17	450															
1000	8×10.2	0.17	450	10×10.2	0.090	670				12.5×13.5	0.066	900				16×16.5	0.078	790
1500	10×10.2	0.090	670				12.5×13.5	0.066	900				16×16.5	0.052	1250			
2200				12.5×13.5	0.066	900				16×16.5	0.052	1250						
3300	12.5×13.5	0.066	900				16×16.5	0.052	1250									
4700				16×16.5	0.052	1250												
6800	16×16.5	0.052	1250															

→Please use the higher voltage model in the next.
Please refer to page 15 for
ripple current frequency coefficients.

Case size:φDxL(mm)
10×7.7:CE-AXA
16×16.5:CE-AXT

Impedance(Ω)
max at 100kHz, 20℃

Rated ripple current
mArms(100kHz, 105℃)

■ Part number

AX
16 CE 470 AX
- Series code
- Rated capacitance
- Type code
- Rated voltage

AXA
10 CE 470 AXA
- Series code
- Rated capacitance
- Type code
- Rated voltage

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

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