

Aluminum Electrolytic Capacitors

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

CAE-AX

Series

Low Impedance



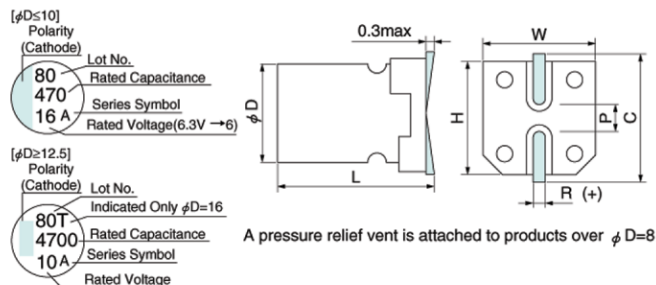
- 105°C, 1,000 to 2,000hrs
- Solvent proof (within 2 minutes)

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 (DF)	120Hz/20°C	φ 4 to φ 6.3	0.24	0.20	0.16	0.14	0.12
		φ 8 to φ 16	0.28	0.24	0.20	0.16	0.14
		When rated capacitance exceeds 1,000 μF, add 0.02 to the value above for each 1,000 μF increase.					
Leakage current (LC)	μ A/after 2minutes (max)	The greater value of either 0.01CV or 3					
Impedance ratio at low temperature	Based the value at 120Hz, +20°C	-40°C Z/Z _{20°C}	3	2	2	2	2
		-55°C Z/Z _{20°C}	5	4	4	3	3
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ 4 to φ 6.3, φ 10×7.7 : 1,000hrs., φ 8 to φ 16 : 2,000hrs.				
		ΔC/C	Within ±25% of the initial value				
		tan δ	≤ 2 times the initial specified value				
		LC	≤ The initial specified value				

Marking, Dimensions

(Unit : mm)



D±0.5max	L±0.3	W±0.2	H±0.2	C±0.2	R	P±0.2
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	1.8 to 2.1	7.0

Optional Length (L) Available

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Size List, Impedance, Rated Ripple Current

μF \ V	6.3	10	16	25	35	50
4.7					4 x 6.0 1.80 80	4 x 6.0 2.90 60
10				4 x 6.0 1.80 80	5 x 6.0 0.76 150	6.3 x 6.0 0.88 165
15			4 x 6.0 1.80 80	5 x 6.0 0.76 150	5 x 6.0 0.76 150	
22		4 x 6.0 1.80 80	5 x 6.0 0.76 150	5 x 6.0 0.76 150	5 x 6.0 0.76 150	6.3 x 6.0 0.88 165
27	4 x 6.0 1.80 80					
33	→	5 x 6.0 0.76 150	→	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 7.7 0.68 195
47	5 x 6.0 0.76 150	→	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 7.7 0.68 195
56	5 x 6.0 0.76 150			6.3 x 6.0 0.44 230		
68	→	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 7.7 0.34 280	
100	6.3 x 6.0 0.44 230	→	6.3 x 6.0 0.44 230	6.3 x 7.7 0.34 280	8 x 10.2 0.17 450	8 x 10.2 0.39 300
150	6.3 x 6.0 0.44 230	6.3 x 6.0 0.44 230	6.3 x 7.7 0.34 280	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.21 450
				→	10 x 7.7 0.17 450	
220	6.3 x 6.0 0.44 230	6.3 x 7.7 0.34 280	6.3 x 7.7 0.34 280	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.21 450
				10 x 7.7 0.17 450		
330	6.3 x 7.7 0.34 280	8 x 10.2 0.17 450	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.09 670	12.5 x 13.5 0.14 620
		→	10 x 7.7 0.17 450			
390						12.5 x 13.5 0.14 620
470	8 x 10.2 0.17 450	8 x 10.2 0.17 450	8 x 10.2 0.17 450	10 x 10.2 0.09 670	12.5 x 13.5 0.066 900	
		10 x 7.7 0.17 450				
680	8 x 10.2 0.17 450	→	10 x 10.2 0.09 670		12.5 x 13.5 0.066 900	
	10 x 7.7 0.17 450					
1000	8 x 10.2 0.17 450	10 x 10.2 0.09 670		12.5 x 13.5 0.066 900		16 x 16.5 0.078 790
1500	10 x 10.2 0.09 670		12.5 x 13.5 0.066 900		16 x 16.5 0.052 1250	
2200		12.5 x 13.5 0.066 900		16 x 16.5 0.052 1250		
3300	12.5 x 13.5 0.066 900		16 x 16.5 0.052 1250			
4700		16 x 16.5 0.052 1250				
6800	16 x 16.5 0.052 1250					

→ Use next higher voltage product.

Please refer to page 19 for the ripple current frequency coefficient.

Case size ; ϕ D x L (mm)
 10 x 7.7 ; CAE-AXA series
 16 x 16.5 ; CAE-AXT series

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

Impedance (Ω)
 max at 100kHz, 20°C

Model No.

16 CAE 470 AX-V
 └ RoHS
 └ Series code
 └ Rated capacitance code
 └ Type code
 └ Rated voltage

10 CAE 470 AXA-V
 └ RoHS
 └ Series code
 └ Rated capacitance code
 └ Type code
 └ Rated voltage

10 CAE 4700 AXT-V
 └ RoHS
 └ Series code
 └ Rated capacitance code
 └ Type code
 └ Rated voltage