

# CE-AX Series

Surface Mount Type, Low impedance

This series has low impedance at high frequency.

High capacitance with small package.

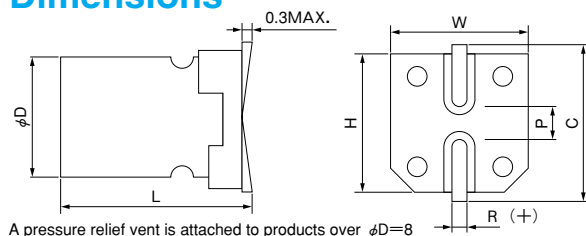
Solvent proof (within 2 minutes).



## Specifications

Items		Specifications					
Rated voltage (V)		6.3	10	16	25	35	50
Category temperature range (°C)		-55 to +105					
Capacitance tolerance (%)		±20 (120Hz/20°C)					
Tangent of loss angle (tan δ) (MAX.) (120Hz/20°C)	φ 4 to φ 6.3	0.24	0.20	0.16	0.14	0.12	0.12
	φ 8 to φ 16	0.28	0.24	0.20	0.16	0.14	0.14
When nominal capacitance exceeds 1000 μF, add 0.02 to the value above for each 1000 μF increase.							
Leakage current (L.C.) (μA/after 2min.) (MAX.)		The greater value of either 0.01CV or 3					
Impedance (120Hz) ratio at low temperature (MAX.)	Z <sub>-40°C</sub> /Z <sub>20°C</sub>	3	2	2	2	2	2
	Z <sub>-55°C</sub> /Z <sub>20°C</sub>	5	4	4	3	3	3
Endurance 105°C rated voltage applied	Test time	2000hrs. (φ D ≤ 6.3, φ 10×7.7 : 1000hrs.)					
	ΔC/C	Within ±25% of the initial value					
	tan δ	≤ Twice the initial standard					
	L.C.	≤ The initial standard					

## Dimensions



A pressure relief vent is attached to products over φD=8

(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	1.1 to 1.4	4.6
10	10.2	10.3	10.3	11.0	1.1 to 1.4	4.6
12.5	13.5 ±0.5	12.8	12.8	13.5	1.1 to 1.4	4.6
16	16.5 ±0.5	16.3	16.3	17.0	1.8 to 2.1	7.0

## Size List, Impedance, Maximum Permissible 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
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	10×7.7 0.17 450	10×10.2 0.21 450
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 0.09 670	12.5×13.5 0.14 620
390			10×7.7 0.17 450			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 0.09 670	12.5×13.5 0.066 900	
680	8×10.2 0.17 450	10×7.7 0.17 450	10×10.2 0.09 670		12.5×13.5 0.066 900	
1000	8×10.2 0.17 450	10×10.2 0.09 670		12.5×13.5 0.066 900		16×16.5 0.078 790
1500	10×10.2 0.09 670		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					

→Use next higher voltage product.

10×7.7 : CE-AXA series  
16×16.5 : CE-AXT series

Case size ; φ D×L (mm)

Ripple current mA r.m.s. (100kHz, 105°C)

Model No. 16 CE 470 AX  
Series code  
Capacitance symbol  
Type code  
Rated voltage

10 CE 470 AXA  
Series code  
Capacitance symbol  
Type code  
Rated voltage

10 CE 4700 AXT  
Series code  
Capacitance symbol  
Type code  
Rated voltage

Impedance (Ω) MAX. at 100kHz, 20°C