

CV-AX Series Surface Mount Type Low impedance at high frequency

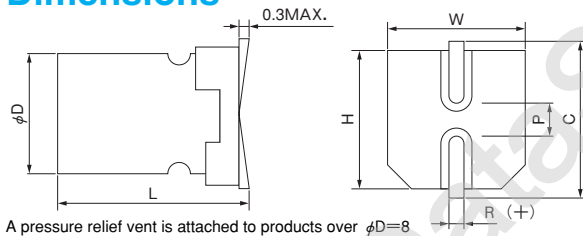
CV-AX series is low impedance.
CV-AX series contributes toward miniaturization of any products.
Solvent proof (within 2 minutes).



Specifications

Items		Specifications					
Rated voltage (V)		6.3	10	16	25	35	50
Operating temperature range (°C)		-55 to +105					
Capacitance tolerance (%)		±20 (120Hz/20°C)					
Tangent of loss angle (tan δ) (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
		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 _{-40°C} /Z _{20°C}	3	2	2	2	2	2
	Z _{-55°C} /Z _{20°C}	5	4	4	3	3	3
High-temperature load 105°C rated voltage applied	Test time	2000hrs. (φD ≤ 6.3, φ10×7.7 : 1000hrs.)					
	ΔC/C	Within ±25% of the initial value					
	tan δ	≤ Twice the initial standard					
	L.C.	≤ The initial standard					
Resistance to soldering heat	Test	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.					
	ΔC/C	Within ±10% of the initial value					
	tan δ	≤ The initial standard					
	L.C.	≤ The initial standard					

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	1.1 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

μF	V	6.3		10		16		25		35		50							
		Capacitance	Impedance	Capacitance	Impedance	Capacitance	Impedance	Capacitance	Impedance	Capacitance	Impedance	Capacitance	Impedance						
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	6.3×6.0	0.88	165		
27		4×6.0	1.80	80															
33				5×6.0	0.76	150													
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	8×10.2	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																	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										12.5×13.5	0.066	900			
1000		8×10.2	0.17	450	10×10.2	0.09	670												
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 ; CV-AXA series

φD×Lmm

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

Model No. 16CV470AX

10CV470AXA

Capacitance symbol
Rated voltage

Capacitance symbol
Rated voltage

Impedance (Ω)
MAX. at 100kHz, 20°C