

CV-FS Series

Surface Mount Type 105°C Standard

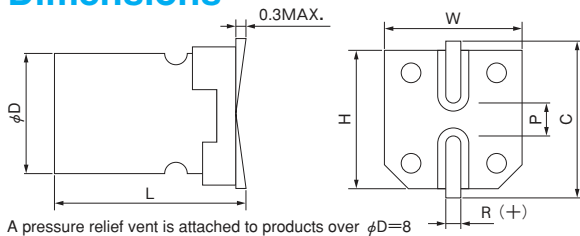


CV-FS series (6.3 to 63V) has stable characteristics at the temperature of wide range (-55 to +105°C), and solvent proof (within 2 minutes).

Specifications

Items		Specifications							
Rated voltage (V)		6.3	10	16	25	35	50	63	100
Category 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	0.10	0.12	0.10
	φ8 to φ16	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10
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/Z20°C	3	3	2	2	2	2	2	3
	Z-55°C/Z20°C	8	5	4	3	3	3	3	—
Endurance 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							

Dimensions

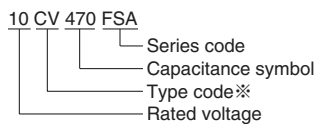
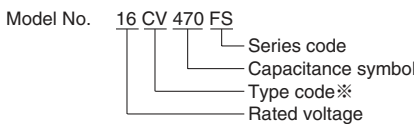


(Unit :mm)

D+0.5MAX.	L	W ±0.2	H ±0.2	C ±0.2	R	P ±0.2
4	5.4 ^{+0.1} _{-0.2}	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 ^{+0.1} _{-0.2}	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 ^{+0.1} _{-0.2}	6.6	6.6	7.3	0.5 to 0.8	1.0
4	6.0 ±0.3	4.3	4.3	5.0	0.5 to 0.8	2.2
6.3	6.0 ±0.3	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7 ±0.3	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2 ±0.3	8.3	8.3	9.0	0.7 to 1.0	3.2
10	7.7 ±0.3	10.3	10.3	11.0	1.1 to 1.4	4.6
10	10.2 ±0.3	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, Maximum Permissible Ripple Current

μF \ V	6.3	10	16	25	35	50	63	100
0.1 to 0.47							4×5.4 0.7 to 3.5	4×5.4 0.7 to 3.5
1.0							4×5.4 7	4×6.0 7
2.2							4×5.4 11	6.3×6.0 14
3.3							4×5.4 13	6.3×6.0 20
4.7				4×5.4 13	4×5.4 14	5×5.4 16	5×5.4 16	6.3×6.0 25
10			4×5.4 18	5×5.4 20	5×5.4 21	6.3×5.4 24	6.3×5.4 24	6.3×7.7 35
22	4×5.4 22	5×5.4 25	5×5.4 27	6.3×5.4 36	6.3×5.4 38	6.3×6.0 42	6.3×7.7 49	8×10.2 84
33	5×5.4 27	5×5.4 30	6.3×5.4 40	6.3×5.4 44	6.3×6.0 42	6.3×7.7 60	8×10.2 112	10×10.2 133
47	5×5.4 33	6.3×5.4 41	6.3×5.4 48	6.3×6.0 48	6.3×6.0 49	6.3×7.7 63	8×10.2 119	12.5×13.5 240
68							8×10.2 126	12.5×13.5 245
82						10×7.7 140		
100	6.3×5.4 50	6.3×5.4 53	6.3×5.4 60	6.3×7.7 91	6.3×7.7 84	8×10.2 140	10×10.2 196	16×16.5 490
150		6.3×6.0 62	6.3×7.7 95	8×10.2 140	8×10.2 155			16×16.5 500
220	6.3×6.0 67	6.3×7.7 105	6.3×7.7 105	8×10.2 175	8×10.2 190	10×7.7 155		
330	6.3×7.7 105	8×10.2 195	8×10.2 195	8×10.2 220	10×10.2 300	10×10.2 220	12.5×13.5 365	
390						12.5×13.5 380		
470	8×10.2 210	8×10.2 210	8×10.2 230	10×10.2 300	12.5×13.5 410		16×16.5 630	
680	8×10.2 210		10×10.2 310		12.5×13.5 430			
1000	8×10.2 230	10×10.2 310		12.5×13.5 460		16×16.5 655		
1500	10×10.2 310				16×16.5 740			
2200		12.5×13.5 510		16×16.5 805				
3300	12.5×13.5 520		16×16.5 840					
4700		16×16.5 880						
6800	16×16.5 930							



Case size ; φD×L (mm)
10×7.7 ; CV-FSA series

Ripple current
mA r.m.s.
(120Hz, 105°C)

*Type code

Environment-friendly capacitors Pb free lead finishing	Sn-Pb lead finishing
CE	CV

*Please refer to page 10 & 11 for details.

CV-FS Series

Surface Mount Type 105°C Standard
(mid. and high voltage)

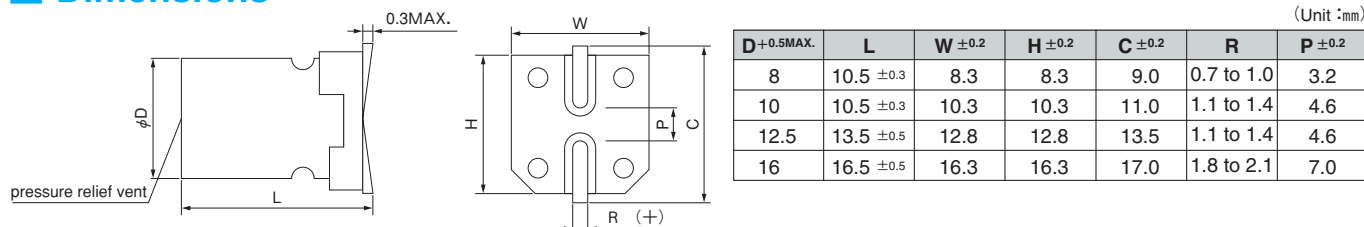


Middle & High Voltage Products is added to CV-FS series (-40 to +105°C 2000hrs).

Specifications

Items		Specifications			
Rated voltage (V)		160	200	250	400
Category temperature range (°C)		-40 to +105			
Capacitance tolerance (%)		±20 (120Hz/20°C)			
Tangent of loss angle (tan δ) (MAX.) (120Hz/20°C)		0.20			0.25
Leakage current (L.C.) (μA/after 2min.) (MAX.)		CV≤1000 ; 0.03CV+15 CV>1000 ; 0.02CV+25			
Impedance (120Hz) ratio at low temperature (MAX.)	Z _{-25°C} /Z _{20°C}	3	3	3	6
	Z _{-40°C} /Z _{20°C}	6	6	6	10
Endurance 105°C 2000hrs. (φD ≤ 8, 1000hrs.) rated voltage applied	ΔC/C	Within ± 25% of the initial value			
	tan δ	≤ Twice the initial standard			
	L.C.	≤ The initial standard			

Dimensions



Size List, Maximum Permissible Ripple Current

μF \ V	160		200		250		400	
2.2							8×10.5	25
3.3					8×10.5	31	10×10.5	36
4.7					8×10.5	37	10×10.5	38
6.8					8×10.5	44	12.5×13.5	47
10	8×10.5	57	10×10.5	64	10×10.5	64	12.5×13.5	57
22	12.5×13.5	112	12.5×13.5	112	12.5×13.5	112	16×16.5	115
33	12.5×13.5	137	12.5×13.5	137	16×16.5	150		
47	16×16.5	180	16×16.5	180	16×16.5	180		
68	16×16.5	215	16×16.5	215				
82	16×16.5	235						

Case size ; φD×L (mm)

Ripple current
mA r.m.s.
(120Hz, 105°C)

Model No. 200 CV 10 FS

- Rated voltage
- Type code
- Capacitance symbol
- Series code