

CE-FS Series

105°C Standard

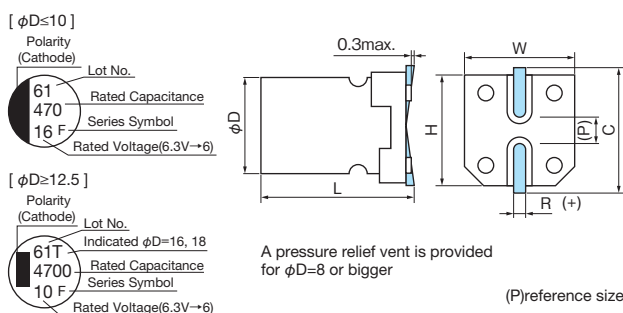


- 105°C 1,000 to 2,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

Specifications

Items	Condition		Specifications								
Rated voltage (V)	—		6.3	10	16	25	35	50	63	100	
Surge voltage (V)	Room temperature		8.0	13	20	32	44	63	79	125	
Category temperature range (°C)	—		-55 to +105								-40 to +105
Capacitance tolerance (%)	120Hz/20°C		M : ±20								
Dissipation Factor(tan δ)	tanδ(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	
		φ18	0.34	0.30	0.26	0.22	0.18	0.16	0.14	0.10	
			Exceeding 1,000μF, +0.02 every 1,000μF								
Leakage current(LC)	μA/after 2minutes (max.), 20°C		The greater value of either 0.01CV or 3								
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-40°C Z/Z _{20°C}	3	3	2	2	2	2	2	3	
		-55°C Z/Z _{20°C}	8	5	4	3	3	3	3	—	
Endurance	105°C rated voltage applied (With the rated ripple current)	Test	φ4 to φ6.3 : 1,000hours, φ8 to φ18 : 2,000hours								
		△C/C	Within ±25% of the initial value								
		tanδ	Not more than 200% of the specified value								
		LC	Not more than the specified value								
Shelf Life	105°C, 1,000hours(with no voltage load)		Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4 4.1.								

Marking, Dimensions



(Unit : mm)

D ^{±0.5}	L	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P
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	2.2
6.3	6.0 ^{+0.1} _{-0.2}	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	10.2 ^{+0.3}	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
18	16.5 ^{+1.0}	19.0	19.0	20.0	1.7 to 2.1	7.0
18	21.5 ^{+1.0}	19.0	19.0	20.0	1.7 to 2.1	7.0

Size, Rated Ripple Current

μF \ V	6.3	10	16	25	35
4.7				→	4×5.4 14
10			4×5.4 18	→	5×5.4 21
22	4×5.4 22	→	5×5.4 27	→	6.3×5.4 38
33	→	5×5.4 30	→	6.3×5.4 44	6.3×6.0 42
47	5×5.4 33	→	6.3×5.4 48	→	6.3×6.0 49
100	→	→	6.3×5.4 60	→	6.3×7.7 84
150		6.3×6.0 62	6.3×7.7 95	→	8×10.2 155
220	6.3×6.0 67	→	6.3×7.7 105	→	8×10.2 190
330	6.3×7.7 105	→	→	8×10.2 220	10×10.2 300
470	→	→	8×10.2 230	10×10.2 300	12.5×13.5 410
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	16×16.5 700
1500	10×10.2 310		12.5×13.5 500		16×16.5 740
2200		12.5×13.5 510		16×16.5 805	18×16.5 950
2700					18×21.5 1200
3300	12.5×13.5 520		16×16.5 840	18×16.5 1040	
3900				18×21.5 1280	
4700		16×16.5 880	18×16.5 1090		
5600			18×21.5 1300		
6800	16×16.5 930	18×16.5 1150			
8200		18×21.5 1350			
10000	18×16.5 1200				
12000	18×21.5 1350				

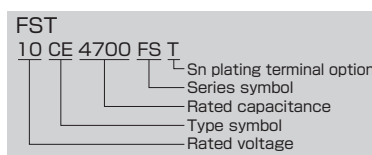
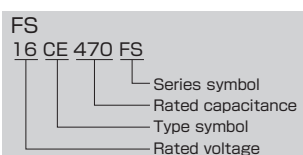
μF \ V	50	63	100
2.2	4×5.4 11	4×5.4 11	
3.3	4×5.4 13	5×5.4 14	
4.7	5×5.4 16	5×5.4 16	6.3×6.0 25
10	6.3×5.4 24	6.3×5.4 24	6.3×7.7 35
22	6.3×6.0 42	6.3×7.7 49	8×10.2 84
33	6.3×7.7 60	8×10.2 112	10×10.2 133
47	6.3×7.7 63	8×10.2 119	12.5×13.5 240
68		8×10.2 126	12.5×13.5 245
100	8×10.2 140	10×10.2 196	16×16.5 490
150			16×16.5 500
220	10×10.2 220	12.5×13.5 287	18×16.5 650
330	12.5×13.5 365		18×21.5 700
390	12.5×13.5 380		
470		16×16.5 630	
680		18×16.5 750	
1000	16×16.5 655	18×21.5 900	
1500	18×21.5 1100		

→Please use the higher voltage model in the next.
Please refer to page 16 for
ripple current frequency coefficients.

Case size: ϕ D×L(mm)
 ϕ 16, ϕ 18:CE-FST

Rated ripple current
mA_{rms}(120Hz, 105°C)

Part number



Please refer to page 17 for anti-vibration structure.