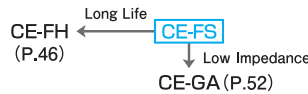


# CE-FS Series

105°C Standard



105°C, 1,000 to 2,000hours  
Leakage current proof (within 2 minutes)



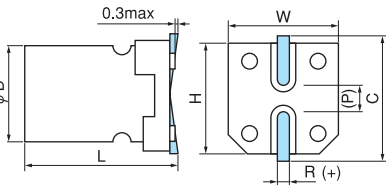
## Specifications

Items	Condition	Specifications								
Rated Voltage (V)	—	6.3	10	16	25	35	50	63	100	
Rated Voltage (V)	Room temperature	8.0	13	20	32	44	63	79	125	
Temperature range (°C)	—	-55 to +105							-40 to +105	
Capacitance tolerance (%)	120Hz/20°C	M : ±20								
Dissipation Factor (tan δ)	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
		φ18	0.34	0.30	0.26	0.22	0.18	0.16	0.14	0.10
		Exceeding 1,000 μF, +0.02 every 1,000 μF								
Ripple Current (LC)	μA/after 2minutes (max)	The greater value of either 0.01CV or 3								
Voltage ratio at temperature	Based the value at 120Hz, +20°C	-40°C Z/Z20°C	3	3	2	2	2	2	2	3
		-55°C Z/Z20°C	8	5	4	3	3	3	3	—
Life	105°C rated voltage applied (With the rated ripple current)	Test	φ4 to φ6.3, φ10 × 7.7 : 1,000hours, φ8 to φ18 : 2,000hours							
		ΔC/C	Within ±25% of the initial value							
		tan δ	Less than 200% of the specified value							
		LC	Less than the specified value							

## Marking, Dimensions

(Unit : mm)

Part No.  
Rated Capacitance  
Series Symbol  
Rated Voltage(6.3V→6)



A pressure relief vent is provided for φD=8 or bigger

(P)reference size

Part No.  
Indicated φ D=16, 18  
Rated Capacitance  
Series Symbol  
Rated Voltage(6.3V→6)

D <sup>+0.5max</sup>	L	W <sup>+0.2</sup>	H <sup>+0.2</sup>	C <sup>±0.2</sup>	R	P
4	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	4.3	4.3	5.0	0.5 to 0.8	1.0
4	6.0 <sup>±0.3</sup>	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 <sup>+0.1</sup> <sub>-0.2</sub>	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	6.0 <sup>±0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7 <sup>±0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2 <sup>±0.3</sup>	8.3	8.3	9.0	0.7 to 1.0	3.2
10	7.7 <sup>±0.3</sup>	10.3	10.3	11.0	1.0 to 1.4	4.6
10	10.2 <sup>±0.3</sup>	10.3	10.3	11.0	1.0 to 1.4	4.6
12.5	13.5 <sup>±0.5</sup>	12.8	12.8	13.5	1.0 to 1.4	4.6
16	16.5 <sup>±0.5</sup>	16.3	16.3	17.3	1.7 to 2.1	7.0
18	16.5 <sup>±1.0</sup>	19.0	19.0	20.0	1.7 to 2.1	7.0
18	21.5 <sup>±1.0</sup>	19.0	19.0	20.0	1.7 to 2.1	7.0

Rated Ripple Current

V	6.3		10		16		25		35	
7					4x5.4	18	4x5.4	13	4x5.4	14
	4x5.4	22	5x5.4	25	5x5.4	27	5x5.4	20	5x5.4	21
	5x5.4	27	5x5.4	30	6.3x5.4	40	6.3x5.4	36	6.3x5.4	38
	5x5.4	33	6.3x5.4	41	6.3x5.4	48	6.3x6.0	44	6.3x6.0	42
	6.3x5.4	50	6.3x5.4	53	6.3x5.4	60	6.3x7.7	48	6.3x6.0	49
			6.3x6.0	62	6.3x7.7	95	8x10.2	91	6.3x7.7	84
									8x10.2	155
									10x7.7	155
	6.3x6.0	67	6.3x7.7	105	6.3x7.7	105	8x10.2	175	8x10.2	190
							10x7.7	175		
	6.3x7.7	105	8x10.2	195	8x10.2	195	8x10.2	220	10x10.2	300
					10x7.7	195				
	8x10.2	210	8x10.2	210	8x10.2	230	10x10.2	300	12.5x13.5	410
			10x7.7	210						
	8x10.2	210			10x10.2	310			12.5x13.5	430
	10x7.7	210								
	8x10.2	230	10x10.2	310			12.5x13.5	460	16x16.5	700
	10x10.2	310			12.5x13.5	500			16x16.5	740
			12.5x13.5	510			16x16.5	805	18x16.5	950
									18x21.5	1200
	12.5x13.5	520			16x16.5	840	18x16.5	1040		
							18x21.5	1280		
			16x16.5	880	18x16.5	1090				
					18x21.5	1300				
	16x16.5	930	18x16.5	1150						
			18x21.5	1350						
	18x16.5	1200								
	18x21.5	1350								

V	50		63		100	
7	4x5.4	3.5	4x5.4	3.5		
	4x5.4	7.0	4x5.4	7.0	4x6.0	7.0
	4x5.4	11	4x5.4	11	6.3x6.0	14
	4x5.4	13	5x5.4	14	6.3x6.0	20
	5x5.4	16	5x5.4	16	6.3x6.0	25
	6.3x5.4	24	6.3x5.4	24	6.3x7.7	35
	6.3x6.0	42	6.3x7.7	49	8x10.2	84
	6.3x7.7	60	8x10.2	112	10x10.2	133
	6.3x7.7	63	8x10.2	119	12.5x13.5	240
			8x10.2	126	12.5x13.5	245
	10x7.7	140				
	8x10.2	140	10x10.2	196	16x16.5	490
					16x16.5	500
	10x10.2	220	12.5x13.5	287	18x16.5	650
	12.5x13.5	365			18x21.5	700
	12.5x13.5	380				
			16x16.5	630		
			18x16.5	750		
	16x16.5	655	18x21.5	900		
	18x21.5	1100				

Aluminum Electrolytic Capacitors

- CE-BE
- CE-BD
- CE-BS
- CE-BSS
- CE-FE
- CE-LD
- CE-FSS
- CE-FS**
- CE-FH
- CE-LH
- CE-AX
- CE-KX
- CE-GA
- CE-LS
- CE-ZX
- CE-ZC
- CE-LX
- CE-LL
- CE-LH(High Voltage)
- CE-PC
- CE-PH
- CE-PS
- CE-PF
- CE-TH
- CE-JX
- CE-NP
- CE-FN
- ME-SWB
- ME-UZ·SZ
- ME-UAX·SAX
- ME-SWG
- ME-HC
- ME-LS
- ME-CZ
- ME-CA
- ME-CX
- ME-AX
- ME-WX
- ME-WA
- ME-WL
- ME-WG
- ME-FX
- ME-FH
- ME-PX
- ME-HPC·HPD

Refer to page 15 for high frequency coefficients.

Case size: φDxL(mm)  
10x7.7:CE-FSA  
16.4:18:CE-FST

Rated ripple current  
mArms(120Hz, 105°C)

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