

CE-PH Series

125°C Low ESR
**High Ripple Current,
High Capacitance**

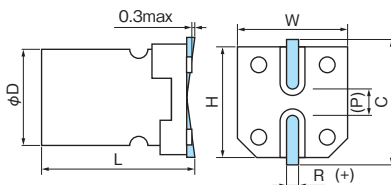
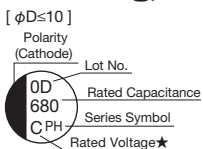

- 125°C 2,000 to 5,000hours
- Solvent proof (within 2 minutes)
- AEC-Q200

Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	16	25	35	50	63
Surge voltage (V)	Room temperature	20	32	44	63	79
Category temperature range (°C)	—	-40 to +125				
Capacitance tolerance (%)	120Hz/20°C	M : ±20				
Dissipation Factor (tan δ)	tanδ (max.) 120Hz/20°C	0.20	0.16	0.14	0.14	0.14
		Exceeding 1,000μF, +0.02 every 1,000μF				
Leakage current (LC)	μA/after 2minutes (max.)	0.01CV				
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C Z/Z _{20°C}	2	2	2	2
		-40°C Z/Z _{20°C}	4	3	3	3
Endurance	125°C rated voltage applied (With the rated ripple current)	Test	φ6.3 to φ10 : 2,000hours, φ12.5 : 3,000hours, φ16, φ18 : 5,000hours			
		ΔC/C	Within ±30% of the initial value			
		tanδ	Less than 300% of the specified value			
		LC	Less than the specified value			

Marking, Dimensions

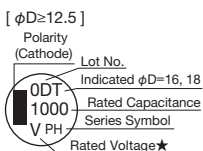
(Unit : mm)



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

(P)reference size

D ^{±0.5}	L ^{±0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P
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	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	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



★(16V:C, 25V:E, 35V:V, 50V:H, 63V:J)

Size, ESR, Rated Ripple Current

μF	V	16				25				35			
22										6.3x6.0	1.6	—	110
33										6.3x6.0 ★	1.6	—	110
47		6.3x6.0	1.6	—	110	6.3x6.0	1.6	—	110	6.3x7.7	0.45	5.0	200
100		6.3x7.7	0.45	5.0	200	6.3x7.7	0.45	5.0	200	6.3x7.7	0.45	5.0	200
160										8x10.5	0.18	3.0	300
220						8x10.5	0.18	3.0	300	8x10.5	0.18	3.0	300
270						8x10.5	0.18	3.0	300	10x10.5	0.11	2.0	500
300										10x10.5	0.11	2.0	500
330		8x10.5	0.18	3.0	300	10x10.5	0.11	2.0	500	10x10.5	0.11	2.0	500
390		8x10.5	0.18	3.0	300					12.5x13.5	0.08	1.0	1200
470		10x10.5	0.11	2.0	500	10x10.5	0.11	2.0	500	12.5x13.5	0.08	1.0	1200
620										12.5x13.5	0.08	1.0	1200
680		10x10.5	0.11	2.0	500	12.5x13.5	0.08	1.0	1200	16x16.5	0.05	0.5	1800
910						12.5x13.5	0.08	1.0	1200				
1000		12.5x13.5	0.08	1.0	1200	16x16.5	0.05	0.5	1800	16x16.5	0.05	0.5	1800
1500		12.5x13.5	0.08	1.0	1200	16x16.5	0.05	0.5	1800	18x16.5	0.045	0.45	2000
2200		16x16.5	0.05	0.5	1800	18x16.5	0.045	0.45	2000	18x21.5	0.04	0.4	2200
3300		18x16.5	0.045	0.45	2000	18x21.5	0.04	0.4	2200				
3900		18x21.5	0.04	0.4	2200								

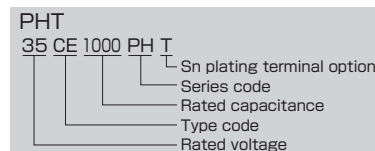
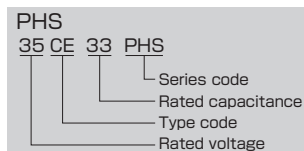
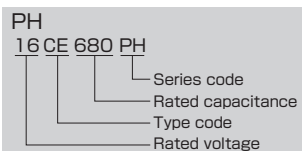
μF	V	50				63			
10		6.3x6.0	2.0	—	70	6.3x7.7	2.0	20	60
22						8x10.5	0.70	7.0	140
33						8x10.5	0.70	7.0	140
47		8x10.5	0.45	5.0	250	8x10.5	0.70	7.0	140
100		10x10.5	0.30	3.0	350	10x10.5 ★	0.30	3.0	260
150						12.5x13.5	0.18	2.0	700
220		12.5x13.5	0.15	1.5	700	12.5x13.5	0.18	2.0	700
330						16x16.5	0.13	1.3	1000
470		16x16.5	0.09	0.9	1000	16x16.5	0.13	1.3	1000
680		18x16.5	0.07	0.7	1200				
1000		18x21.5	0.05	0.5	1650				

Please refer to page 14 for ripple current frequency coefficients.

★ PHS

Case size: ϕ DxL(mm)
 ϕ 16, ϕ 18:CE-PHT
 ESR(Ω) max. at 100kHz, 20°C
 ESR(Ω) max. at 100kHz, -40°C
 Rated ripple current
 mA rms(100kHz, 125°C)

Part number



- Aluminum Electrolytic Capacitors
- Surface Mount Type
- CE-BD
 - CE-BSS
 - CE-BS
 - CE-LD
 - CE-FSS
 - CE-FS
 - CE-FS(High Voltage)
 - CE-FH
 - CE-AX
 - CE-KX
 - CE-ZX
 - CE-ZC
 - CE-LX
 - CE-GA
 - CE-LS
 - CE-LH
 - CE-LH(High Voltage)
 - CE-LL
 - CE-LF
 - CE-PC
 - CE-PH
 - CE-PS
 - CE-PF
 - CE-TH
 - CE-JX
 - CE-NP
 - CE-FN