Aluminum Electrolytic Type / Surface Mount Type **RoHS compliance**

CE-PH Series

125℃ Low ESR
High Ripple, High Capacitance

- 125℃, 2,000 to 3,000hrs. ●Suitable for Automotive Application
- Solvent proof (within 2 minutes)

φ18×16.5 **NEW**

■ Specifications

Items	Condition		Specifications		
Rated voltage (V)	–		16	25	35
Surge voltage (V)	Room temperature		20	32	44
Category temperature range (℃)	–		−40 to +125		
Capacitance tolerance (%)	120Hz/20℃		M : ±20		
Dissipation Factor (tanδ)	120Hz/20℃		0.20	0.16	0.14
			When rated capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase.		
Leakage current (LC)	μA/after 2minutes (max)		0.01CV		
Impedance ratio at low temperature	Based the value at 120Hz, +20℃	−25℃ Z/Z20℃	2	2	2
		−40℃ Z/Z20℃	4	3	3
Endurance	125℃ rated voltage applied (With the rated ripple current)	Test	φ8 to φ12.5 : 2,000hrs., φ16, φ18 : 3,000hrs.		
		△C/C	Within ±30% of the initial value		
		tanδ	≤ 3 times the initial specified value		
		LC	≤ The initial specified value		

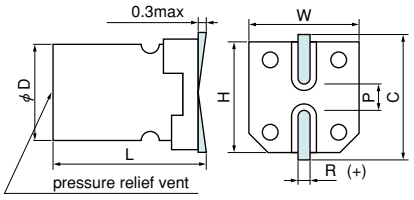
■ Marking, Dimensions

(Unit : mm)

[φD≤10]
Polarity (Cathode)
Lot No.
14 680 C PH
Rated Capacitance
Series Symbol
Rated Voltage★

[φD≥12.5]
Polarity (Cathode)
Lot No.
Indicated φD=16, 18
14T 1000 V PH
Rated Capacitance
Series Symbol
Rated Voltage★

★ (16V:C, 25V:E, 35V:V)



D+0.5max	L	W±0.2	H±0.2	C±0.2	R	P±0.2
8	10.5±0.3	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5±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	1.8 to 2.1	7.0
18	16.5±1.0	19.0	19.0	20.0	1.7 to 2.1	7.0

■ Size List, ESR, Rated Ripple Current

μF \ V	16				25				35			
100									8×10.5	0.18	3.0	300
160									8×10.5	0.18	3.0	300
220					8×10.5	0.18	3.0	300	10×10.5	0.11	2.0	500
270					8×10.5	0.18	3.0	300				
300									10×10.5	0.11	2.0	500
330	8×10.5	0.18	3.0	300	10×10.5	0.11	2.0	500				
390	8×10.5	0.18	3.0	300								
470	10×10.5	0.11	2.0	500	10×10.5	0.11	2.0	500	12.5×13.5	0.08	1.0	1200
620									12.5×13.5	0.08	1.0	1200
680	10×10.5	0.11	2.0	500	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800
910					12.5×13.5	0.08	1.0	1200				
1000	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800	16×16.5	0.05	0.5	1800
1500	12.5×13.5	0.08	1.0	1200	16×16.5	0.05	0.5	1800	18×16.5	0.045	0.45	2000
2200	16×16.5	0.05	0.5	1800	18×16.5	0.045	0.45	2000				
3300	18×16.5	0.045	0.45	2000								

Please refer to page 15 for the ripple current frequency coefficient.

Case size:φDxL(mm)
16×16.5, 18×16.5:CE-PHT

ESR (Ω) max at 100kHz, −40℃

ESR (Ω) max at 100kHz, 20℃

Rated ripple current mArms (100kHz, 125℃)

■ Model No.

PH series
16 CE 680 PH
- Series code
- Rated capacitance code
- Type code
- Rated voltage

PHT
35 CE 1000 PH T
- Sn plating terminal code
- Series code
- Rated capacitance code
- Type code
- Rated voltage