

VPH

- ◆ 105°C 2000 Hours
- ◆ High Voltage SMD Type
- ◆ High Stability, Low ESR, High Frequency
- ◆ RoHS Compliant (2011/65/EU)

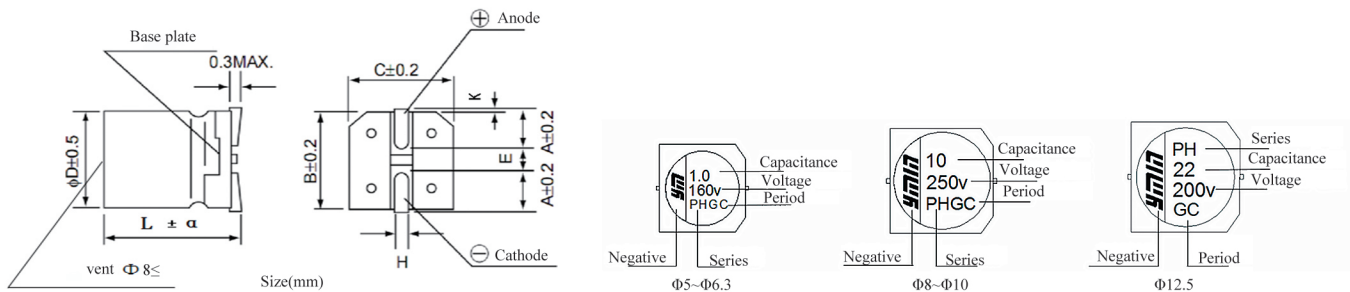


■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	125~250V	
Capacitance Range	1.0~82μF 120Hz/20°C	
Capacitance Tolerance	±20%(120Hz/20°C)	
Dissipation Factor	Less than standard data 120Hz/20°C	
Leakage Current	Less than standard data charging 2mins with rated voltage, 20°C	
ESR	Less than standard data 100KHz/20°C	
Endurance	After load rated voltage for 2000hours at 105°C, the following specification shall be satisfied after placing capacitor for 16 hours at 20°C	
	Capacitance change	Within±20% of the initial value
	ESR	Not more than 150% of the specified value
	Dissipation Factor	Not more than 150% of the specified value
	Leakage current	Not more than the specified value
Humidity	Store the capacitor at 60°C under the condition of 90%~95%RH with no load for 1000hrs, the following specifications shall be satisfied after placing capacitor for 16 hours at 20°C.	
	Capacitance change	Within±20% of the initial value
	ESR	Not more than 150% of the specified value
	Dissipation Factor	Not more than 150% of the specified value
	Leakage current	Not more than the specified value

If you have question for leakage current, please apply rated voltage on capacitors at 105°C for 2hours, then test the leakage current again at 20°C.

■ Standard Size



ΦD	B	C	A	H	E	K	α
5	5.3	5.3	2.1	0.65±0.10	1.3	0.5MAX	±0.5
6.3	6.6	6.6	2.6	0.90±0.20	1.8	0.5MAX	
8	8.3	8.3	3.4	0.90±0.20	3.1	0.5MAX	
10	10.3	10.3	3.5	0.90±0.20	4.6	0.7±0.20	
12.5	13.5	13.5	4.7	0.90±0.30	4.4	0.7±0.30	

■ Rated Ripple Current Frequency Correction Factor

Frequency(Hz)	120Hz	1KHz	10KHz	100KHz	300KHz
Correction factor	0.10	0.45	0.50	1.00	1.00

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■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D×L(mm)	L.C. (μ A,2min)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
125(144)	1.5	6.3×5.8	300	0.12	400	1200
125(144)	2.2	6.3×5.8	300	0.12	400	1200
125(144)	2.7	6.3×7.7	300	0.12	350	1550
125(144)	3.3	6.3×7.7	300	0.12	350	1550
125(144)	4.7	6.3×10	300	0.12	250	1700
125(144)	4.7	8×6.5	300	0.12	200	1250
125(144)	5.6	6.3×10	300	0.12	250	1700
125(144)	5.6	8×7.7	300	0.12	200	1450
125(144)	6.8	6.3×12	300	0.12	200	1850
125(144)	6.8	8×7.7	300	0.12	200	1450
125(144)	8.2	6.3×12	300	0.12	200	1850
125(144)	8.2	8×9.5	300	0.12	80	1800
125(144)	10	8×9.5	300	0.12	80	1800
125(144)	12	8×12.5	300	0.12	80	1980
125(144)	12	10×8.5	300	0.12	100	1500
125(144)	15	8×12.5	375	0.12	80	1980
125(144)	15	10×10	375	0.12	80	1950
125(144)	18	8×13.5	450	0.12	80	2100
125(144)	18	10×10.5	450	0.12	80	2050
125(144)	22	8×16	550	0.12	60	2550
125(144)	22	10×12	550	0.12	80	2100
125(144)	27	8×17	675	0.12	60	2600
125(144)	27	10×14	675	0.12	80	2200
125(144)	33	10×16.5	825	0.12	60	2700
125(144)	39	10×18	975	0.12	60	2700
125(144)	39	12.5×13	975	0.12	80	2350
125(144)	47	10×19	1175	0.12	60	2800
125(144)	47	12.5×14	1175	0.12	80	2450
125(144)	56	10×22	1400	0.12	60	3000
125(144)	56	12.5×17	1400	0.12	60	3000
125(144)	68	12.5×17	1700	0.12	60	3200
125(144)	82	12.5×21	2050	0.12	60	3350
160(184)	1	5×5.8	300	0.12	500	1200
160(184)	1.2	5×5.8	300	0.12	500	1200
160(184)	1.5	6.3×5.8	300	0.12	400	1200
160(184)	2.2	6.3×7.7	300	0.12	350	1400
160(184)	3.3	6.3×10	300	0.12	250	1700
160(184)	3.3	8×7.7	300	0.12	200	1450
160(184)	4.7	6.3×12	300	0.12	200	1850
160(184)	4.7	8×8.5	300	0.12	150	1500
160(184)	5.6	6.3×12	300	0.12	200	1850
160(184)	5.6	8×7.7	300	0.12	200	1450
160(184)	6.8	6.3×12	300	0.12	200	1850

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■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D×L(mm)	L.C. (μ A,2min)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
160(184)	6.8	8×9.5	300	0.12	80	1800
160(184)	8.2	8×9.5	300	0.12	80	1800
160(184)	8.2	10×8.5	300	0.12	100	1500
160(184)	10	8×12.5	320	0.12	80	1980
160(184)	10	10×10	320	0.12	80	1950
160(184)	12	8×12.5	384	0.12	80	1980
160(184)	12	10×10	384	0.12	80	1950
160(184)	15	8×13.5	480	0.12	80	2100
160(184)	15	10×12	480	0.12	80	2100
160(184)	18	8×16	576	0.12	60	2550
160(184)	18	10×12	576	0.12	80	2100
160(184)	22	8×18	704	0.12	60	2650
160(184)	22	10×14	704	0.12	80	2200
160(184)	27	8×18	864	0.12	60	2650
160(184)	27	10×15.5	864	0.12	60	2700
160(184)	33	10×18	1056	0.12	60	2750
160(184)	39	10×19	1248	0.12	60	2800
160(184)	39	12.5×14	1248	0.12	80	2450
160(184)	47	12.5×17	1504	0.12	80	2600
160(184)	56	12.5×17	1792	0.12	60	3200
160(184)	68	12.5×21	2176	0.12	60	3350
200(230)	1	6.3×5.8	300	0.12	400	1200
200(230)	1.5	6.3×7.7	300	0.12	350	1400
200(230)	2.2	6.3×10	300	0.12	250	1700
200(230)	3.3	8×7.7	300	0.12	200	1450
200(230)	3.9	8×9.5	300	0.12	100	1450
200(230)	4.7	8×9.5	300	0.12	80	1800
200(230)	4.7	10×8.5	300	0.12	100	1500
200(230)	5.6	8×12.5	300	0.12	80	1980
200(230)	6.8	8×12.5	300	0.12	80	1980
200(230)	6.8	10×10	300	0.12	80	1950
200(230)	8.2	8×14.5	328	0.12	80	2150
200(230)	8.2	10×10	328	0.12	80	1950
200(230)	10	8×17	400	0.12	60	2600
200(230)	10	10×13	400	0.12	80	2150
200(230)	15	10×14	600	0.12	80	2200
200(230)	18	10×16.5	720	0.12	60	2700
200(230)	18	12.5×13	720	0.12	60	2700
200(230)	22	12.5×14	880	0.12	80	2450
250(288)	4.7	8×12.5	300	0.12	80	1980
250(288)	6.8	8×14.5	340	0.12	80	2150
250(288)	6.8	10×13	340	0.12	80	2150
250(288)	8.2	8×17	410	0.12	60	2600
250(288)	8.2	10×13	410	0.12	80	2150
250(288)	10	10×13	500	0.12	80	2150