

NHT

- ◆ 125°C 4000 Hours
- ◆ Low ESR, High Ripple Current, High Reliability
- ◆ AEC-Q200, RoHS Compliant (2011/65/EU)

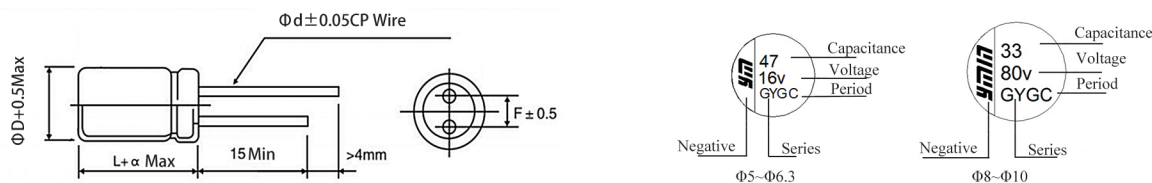


■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+125°C	
Rated Voltage	16~80V	
Capacitance Range	6.8~470μF 120Hz/20°C	
Capacitance Tolerance	±20%(120Hz/20°C)	
Dissipation Factor	Less than standard data 120Hz/20°C	
Leakage Current	I≤0.01CV,charging 2 mins with rated voltage,20°C	
ESR	Less than standard data 100KHz/20°C	
Temperature Characteristics	Z (-25°C) / Z (+20°C) ≤2.0; Z (-55°C) / Z (+20°C) ≤2.5 (100KHz)	
Endurance	After apply rated voltage with rated ripple current at 125°C for 4000 hours, the following specification shall be satisfied after placing the capacitor for 16 hours at 20°C:	
	Capacitance change	Within±30% of the initial value
	ESR	Not more than 200% of the specified value
	Dissipation Factor	Not more than 200% of the specified value
	Leakage current	Not more than the specified value
Shelf Life	After leaving capacitors under no load at 125°C for 1000 hours, then test at 20°C±2°C after 16 hours, the following specification should be met:	
	Capacitance change	Within±30% of the initial value
	ESR	Not more than 200% of the specified value
	Dissipation Factor	Not more than 200% of the specified value
	Leakage current	Not more than the specified value
Humidity	Store the capacitor at 85°C under the condition of 85%R.H with no load for 1000hrs, the following specifications shall be satisfied after placing capacitor for 16 hours at 20°C.	
	Capacitance change	Within±30% of the initial value
	Dissipation Factor	Not more than 200% 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



D (±0.5)	5	6.3	8	10
d (±0.05)	0.45/0.50	0.45/0.50	0.6	0.6
F (±0.5)	2.0	2.5	3.5	5.0
α	+0.5		+1.0	

■ Rated Ripple Current Frequency Correction Factor

Frequency(Hz)	120Hz	1KHz	10KHz	100KHz	300KHz
Correction factor	0.12	0.35	0.80	1.00	1.00

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■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D×L(mm)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 125°C100kHz
16(18.4)	47	5×5.7	0.16	80	550
16(18.4)	82	6.3×5.7	0.16	45	950
16(18.4)	150	6.3×7	0.16	27	1450
16(18.4)	270	8×9	0.16	22	1700
16(18.4)	470	10×9	0.16	18	2100
25(28.8)	33	5×5.7	0.14	80	550
25(28.8)	47	6.3×5.7	0.14	50	900
25(28.8)	56	6.3×5.7	0.14	50	900
25(28.8)	68	6.3×7	0.14	30	1400
25(28.8)	100	6.3×7	0.14	30	1400
25(28.8)	150	8×9	0.14	27	1600
25(28.8)	220	8×9	0.14	27	1800
25(28.8)	270	10×9	0.14	20	2000
25(28.8)	330	10×12.5	0.14	16	2300
25(28.8)	330	10×9	0.14	20	2000
35(41)	22	5×5.7	0.12	100	550
35(41)	27	6.3×5.7	0.12	60	900
35(41)	47	6.3×5.7	0.12	60	900
35(41)	47	6.3×7	0.12	35	1400
35(41)	68	6.3×7	0.12	35	1400
35(41)	100	8×9	0.12	27	1600
35(41)	150	8×9	0.12	27	1600
35(41)	150	10×9	0.12	20	2000
35(41)	270	10×12.5	0.12	17	2200
35(41)	270	10×9	0.12	20	2000
50(58)	10	5×5.7	0.10	120	550
50(58)	10	6.3×5.7	0.10	80	750
50(58)	15	6.3×7	0.10	40	1100
50(58)	22	6.3×5.7	0.10	80	750
50(58)	33	6.3×7	0.10	40	1100
50(58)	33	8×9	0.10	30	1250
50(58)	47	8×9	0.10	30	1250
50(58)	56	10×9	0.10	25	1600
50(58)	68	8×9	0.10	30	1250
50(58)	100	10×9	0.10	25	1600
50(58)	120	10×12.5	0.10	19	2100
50(58)	120	10×9	0.10	25	1600
63(73)	6.8	6.3×5.7	0.10	120	700
63(73)	10	6.3×5.7	0.10	120	700
63(73)	10	6.3×7	0.10	80	900
63(73)	22	6.3×7	0.10	80	900
63(73)	22	8×9	0.10	40	1100
63(73)	33	8×9	0.10	40	1100

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Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D×L(mm)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 125°C100kHz
63(73)	33	10×9	0.10	30	1400
63(73)	47	8×9	0.10	40	1100
63(73)	56	10×9	0.10	30	1400
63(73)	82	10×9	0.10	30	1400
63(73)	100	10×12.5	0.10	20	2000
80(92)	22	8×9	0.10	45	1100
80(92)	33	10×9	0.10	36	1200
80(92)	39	10×9	0.10	35	1200