

NP1

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

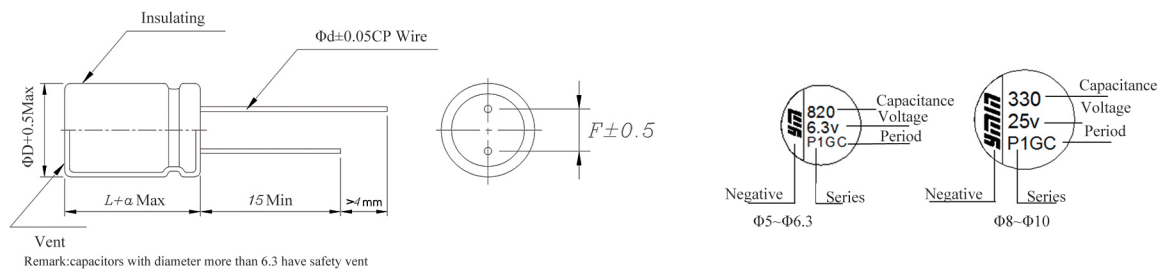


■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	6.3~25V	
Capacitance Range	10~2500μF 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%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±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



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	+1			

■ 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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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
6.3(7.2)	100	6.3×7	280	0.08	8	4800
6.3(7.2)	150	6.3×7	280	0.08	8	4800
6.3(7.2)	180	6.3×7	280	0.08	8	4800
6.3(7.2)	180	8×8	280	0.08	8	5600
6.3(7.2)	180	8×11	280	0.08	8	6150
6.3(7.2)	220	5×9	280	0.08	10	4150
6.3(7.2)	220	6.3×7	280	0.08	8	4800
6.3(7.2)	220	8×8	280	0.08	8	5600
6.3(7.2)	220	8×11	280	0.08	8	6150
6.3(7.2)	270	5×9	340	0.08	10	4150
6.3(7.2)	270	6.3×7	340	0.08	8	4800
6.3(7.2)	270	8×8	340	0.08	8	5600
6.3(7.2)	270	8×11	340	0.08	8	6150
6.3(7.2)	330	5×9	416	0.08	10	4150
6.3(7.2)	330	5×11	416	0.08	10	4500
6.3(7.2)	330	6.3×7	416	0.08	8	4800
6.3(7.2)	330	8×8	416	0.08	8	5600
6.3(7.2)	330	8×11	416	0.08	8	6150
6.3(7.2)	390	6.3×7	491	0.08	8	4800
6.3(7.2)	390	6.3×9	491	0.08	8	5250
6.3(7.2)	390	8×8	491	0.08	8	5600
6.3(7.2)	390	8×11	491	0.08	8	6150
6.3(7.2)	470	6.3×9	592	0.08	8	5250
6.3(7.2)	470	6.3×10	592	0.08	8	5500
6.3(7.2)	470	8×8	592	0.08	8	5600
6.3(7.2)	470	8×11	592	0.08	8	6150
6.3(7.2)	560	6.3×9	706	0.08	8	5250
6.3(7.2)	560	8×8	706	0.08	8	5600
6.3(7.2)	560	8×11	706	0.08	8	6150
6.3(7.2)	680	6.3×10	857	0.08	8	5500
6.3(7.2)	680	8×8	857	0.08	8	5600
6.3(7.2)	680	8×11	857	0.08	8	6150
6.3(7.2)	680	10×12	857	0.08	8	6640
6.3(7.2)	820	8×11	1033	0.08	8	6150
6.3(7.2)	820	10×12	1033	0.08	8	6640
6.3(7.2)	1000	8×11	1260	0.08	8	6150
6.3(7.2)	1000	10×12	1260	0.08	8	6640
6.3(7.2)	1200	8×11	1512	0.08	8	6150
6.3(7.2)	1200	10×12	1512	0.08	8	6640
6.3(7.2)	1500	10×12	1890	0.09	8	6640
6.3(7.2)	2000	10×12	2520	0.10	8	6640
6.3(7.2)	2200	10×12	2772	0.10	8	6640
6.3(7.2)	2500	10×12	3150	0.11	8	6640

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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
7.5(8.6)	270	5×7	405	0.08	12	3400
7.5(8.6)	330	5×9	495	0.08	12	3800
7.5(8.6)	390	5×10	585	0.08	10	4350
7.5(8.6)	470	5×11	705	0.08	10	4500
7.5(8.6)	680	6.3×9	1020	0.08	9	5000
7.5(8.6)	680	6.3×11	1020	0.08	8	5700
7.5(8.6)	1000	8×11	1500	0.08	8	6150
10(11.5)	33	6.3×5	280	0.08	30	2200
10(11.5)	39	6.3×5	280	0.08	30	2200
10(11.5)	47	6.3×7	280	0.08	12	3900
10(11.5)	68	6.3×7	280	0.08	12	3900
10(11.5)	82	6.3×7	280	0.08	12	3900
10(11.5)	100	6.3×7	280	0.08	12	3900
10(11.5)	100	5×7	280	0.08	15	3050
10(11.5)	150	5×11	300	0.08	12	4100
10(11.5)	150	6.3×7	300	0.08	12	3900
10(11.5)	180	5×11	360	0.08	12	4100
10(11.5)	180	6.3×9	360	0.08	12	4300
10(11.5)	180	8×8	360	0.08	10	5100
10(11.5)	180	8×11	360	0.08	9	5800
10(11.5)	220	6.3×9	440	0.08	12	4300
10(11.5)	220	8×8	440	0.08	10	5100
10(11.5)	220	8×11	440	0.08	9	5800
10(11.5)	270	6.3×9	540	0.08	12	4300
10(11.5)	270	6.3×11	540	0.08	9	5400
10(11.5)	270	8×8	540	0.08	10	5100
10(11.5)	270	8×11	540	0.08	9	5800
10(11.5)	330	6.3×11	660	0.08	9	5400
10(11.5)	330	8×8	660	0.08	10	5100
10(11.5)	330	8×11	660	0.08	9	5800
10(11.5)	390	6.3×11	780	0.08	9	5400
10(11.5)	390	8×8	780	0.08	10	5100
10(11.5)	390	8×11	780	0.08	9	5800
10(11.5)	470	6.3×11	940	0.08	9	5400
10(11.5)	470	8×8	940	0.08	10	5100
10(11.5)	470	8×11	940	0.08	9	5800
10(11.5)	560	8×11	1120	0.08	9	5800
10(11.5)	680	8×11	1360	0.08	9	5800
10(11.5)	680	10×12	1360	0.08	9	6300
10(11.5)	820	10×12	1640	0.08	9	6300
10(11.5)	1000	10×12	2000	0.08	9	6300
10(11.5)	1200	10×12	2400	0.08	9	6300
10(11.5)	1500	10×12	3000	0.09	9	6300

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Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D \times L(mm)	L.C. (μ A,2min)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
16(18.4)	22	6.3 \times 7	280	0.08	15	3500
16(18.4)	33	6.3 \times 7	280	0.08	15	3500
16(18.4)	47	6.3 \times 7	280	0.08	15	3500
16(18.4)	68	6.3 \times 7	280	0.08	15	3500
16(18.4)	82	6.3 \times 7	280	0.08	15	3500
16(18.4)	100	6.3 \times 7	320	0.08	15	3500
16(18.4)	100	6.3 \times 11	320	0.08	10	5100
16(18.4)	100	8 \times 11	320	0.08	10	5500
16(18.4)	150	6.3 \times 10	480	0.08	10	4900
16(18.4)	150	8 \times 8	480	0.08	12	4500
16(18.4)	180	6.3 \times 7	576	0.08	15	3500
16(18.4)	180	6.3 \times 11	576	0.08	10	5100
16(18.4)	180	8 \times 8	576	0.08	12	4500
16(18.4)	180	8 \times 11	576	0.08	10	5500
16(18.4)	220	6.3 \times 10	704	0.08	10	4900
16(18.4)	220	8 \times 8	704	0.08	12	4500
16(18.4)	220	8 \times 11	704	0.08	10	5500
16(18.4)	270	6.3 \times 10	864	0.08	10	4900
16(18.4)	270	8 \times 8	864	0.08	12	4500
16(18.4)	270	8 \times 11	864	0.08	10	5500
16(18.4)	270	10 \times 12	864	0.08	10	6000
16(18.4)	330	8 \times 8	1056	0.08	12	4500
16(18.4)	330	8 \times 11	1056	0.08	10	5500
16(18.4)	330	10 \times 12	1056	0.08	10	6000
16(18.4)	390	8 \times 8	1248	0.08	12	4500
16(18.4)	390	8 \times 11	1248	0.08	10	5500
16(18.4)	390	10 \times 12	1248	0.08	10	6000
16(18.4)	470	8 \times 11	1504	0.08	10	5500
16(18.4)	470	10 \times 12	1504	0.08	10	6000
16(18.4)	560	8 \times 11	1792	0.08	10	5500
16(18.4)	560	10 \times 12	1792	0.08	10	6000
16(18.4)	680	10 \times 12	2176	0.08	10	6000
16(18.4)	820	10 \times 12	2624	0.08	10	6000
16(18.4)	1000	10 \times 12	3200	0.08	10	6000
16(18.4)	1000	8 \times 16	3200	0.08	8	7100
25(28.8)	10	6.3 \times 7	280	0.08	16	3400
25(28.8)	15	6.3 \times 7	280	0.08	16	3400
25(28.8)	22	6.3 \times 7	280	0.08	16	3400
25(28.8)	22	6.3 \times 9	280	0.08	16	3750
25(28.8)	33	6.3 \times 9	280	0.08	16	3750
25(28.8)	39	6.3 \times 9	280	0.08	16	3750
25(28.8)	39	8 \times 8	280	0.08	16	3900
25(28.8)	39	8 \times 11	280	0.08	16	4400

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Rated Voltage (Surge Voltage) (V)	Capacitance (μ F)	Size Φ D \times L(mm)	L.C. (μ A,2min)	Tan δ 120Hz	ESR (m Ω 100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
25(28.8)	47	6.3 \times 11	280	0.08	20	3650
25(28.8)	47	8 \times 8	280	0.08	16	3900
25(28.8)	47	8 \times 11	280	0.08	16	4400
25(28.8)	68	8 \times 8	340	0.08	16	3900
25(28.8)	68	8 \times 11	340	0.08	16	4400
25(28.8)	82	8 \times 8	410	0.08	16	3900
25(28.8)	82	8 \times 11	410	0.08	16	4400
25(28.8)	100	8 \times 11	500	0.08	16	4400
25(28.8)	100	10 \times 12	500	0.08	16	4700
25(28.8)	150	8 \times 11	750	0.08	16	4400
25(28.8)	150	10 \times 12	750	0.08	16	4700
25(28.8)	180	8 \times 11	900	0.08	16	4400
25(28.8)	180	10 \times 12	900	0.08	16	4700
25(28.8)	220	8 \times 11	1100	0.08	16	4400
25(28.8)	220	10 \times 12	1100	0.08	16	4700
25(28.8)	270	8 \times 11	1350	0.08	16	4400
25(28.8)	270	10 \times 12	1350	0.08	16	4700
25(28.8)	330	10 \times 12	1650	0.08	16	4700
25(28.8)	390	10 \times 12	1950	0.08	16	4700
25(28.8)	470	10 \times 12	2350	0.08	16	4700
25(28.8)	560	10 \times 12	2800	0.08	16	4700
25(28.8)	680	8 \times 16	3400	0.08	16	5050
25(28.8)	820	10 \times 12	4100	0.08	16	4700
25(28.8)	1000	10 \times 16	5000	0.08	16	5300