

# NPG

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

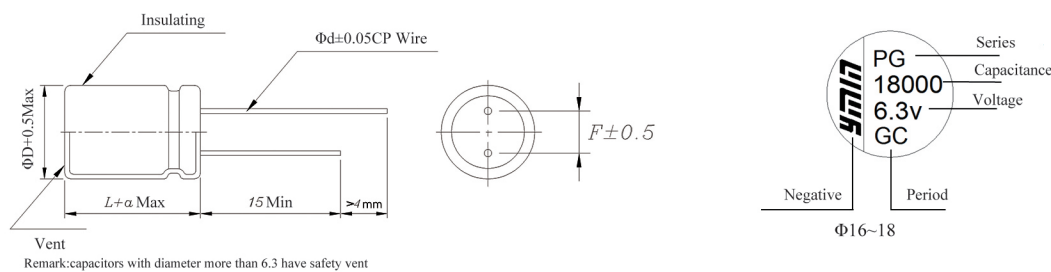


## ■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	6.3~100V	
Capacitance Range	180~18000μF 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 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 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 200% of the specified 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)	16	18
d (±0.05)	0.8	0.8
F (±0.5)	7.5	7.5
α	+1.0	

## ■ 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 ( $\mu$ F)	Size $\Phi$ D×L(mm)	L.C. ( $\mu$ A,2min)	Tan $\delta$ 120Hz	ESR (m $\Omega$ 100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
6.3(7.2)	10000	16×16	7500	0.30	7	9200
6.3(7.2)	12000	16×18	7500	0.34	7	9650
6.3(7.2)	15000	16×20	7500	0.40	7	9950
6.3(7.2)	15000	18×18	7500	0.40	7	9650
6.3(7.2)	18000	18×20	7500	0.46	7	9950
10(11.5)	6800	16×16	7500	0.24	8	8600
10(11.5)	8200	16×18	7500	0.26	8	9000
10(11.5)	10000	16×20	7500	0.30	8	9300
10(11.5)	10000	18×18	7500	0.30	8	9000
10(11.5)	12000	18×20	7500	0.34	8	9300
16(18.4)	3900	16×16	7500	0.18	8	8600
16(18.4)	4700	16×18	7500	0.19	8	9000
16(18.4)	5600	16×20	7500	0.21	8	9300
16(18.4)	6800	18×18	7500	0.24	8	9000
16(18.4)	8200	18×20	7500	0.26	8	9300
25(28.8)	2200	16×16	7500	0.14	16	6000
25(28.8)	2700	16×18	7500	0.15	16	6400
25(28.8)	3300	16×20	7500	0.17	16	6550
25(28.8)	3900	18×18	7500	0.18	16	6400
25(28.8)	4700	18×20	7500	0.19	16	6550
35(41)	1800	16×16	7500	0.14	20	5450
35(41)	2200	16×18	7500	0.14	20	5700
35(41)	2700	16×20	7500	0.15	20	5950
35(41)	2700	18×18	7500	0.15	20	5700
35(41)	3300	18×20	7500	0.17	20	5950
50(58)	680	16×16	6800	0.12	30	4400
50(58)	820	16×18	7500	0.12	30	4650
50(58)	1000	16×20	7500	0.12	30	4800
50(58)	1200	18×18	7500	0.12	30	4650
50(58)	1500	18×20	7500	0.13	30	4800
63(73)	560	16×16	7056	0.12	30	4400
63(73)	680	16×18	7500	0.12	30	4650
63(73)	820	16×20	7500	0.12	30	4800
63(73)	820	18×18	7500	0.12	30	4650
63(73)	1000	18×20	7500	0.12	30	4800
80(92)	330	16×16	5280	0.12	30	4400
80(92)	390	16×18	6240	0.12	30	4650
80(92)	470	16×20	7500	0.12	30	4800
80(92)	560	18×18	7500	0.12	30	4650
80(92)	680	18×20	7500	0.12	30	4800
100(115)	180	16×16	3600	0.12	40	3850
100(115)	220	16×18	4400	0.12	40	4000
100(115)	270	16×20	5400	0.12	40	4150
100(115)	270	18×18	5400	0.12	40	4000
100(115)	330	18×20	6600	0.12	40	4150