

# NPM

- ◆ 105°C 2000 Hours
- ◆ Diameter 3.55mm/4mm
- ◆ High Stability, Low ESR, High Frequency
- ◆ RoHS Compliant ( 2011/65/EU )

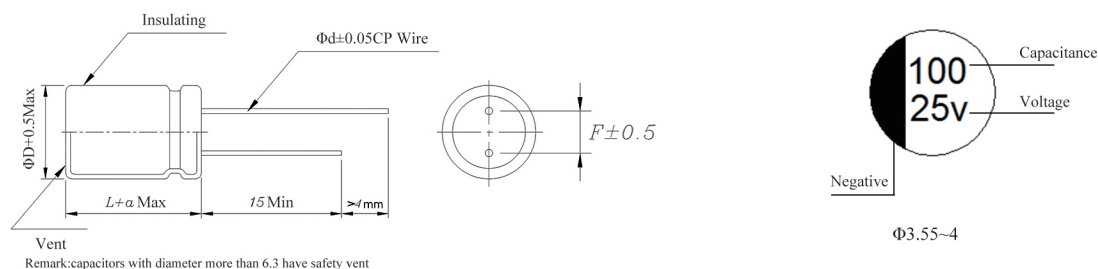


## ■ Specification

Items	Characteristics	
Operation Temperature Range	-55°C~+105°C	
Rated Voltage	6.3~100V	
Capacitance Range	1.2~270μF 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)	3.55×5.7	4×5.7	3.55×7	4×7	3.55×11	4×11
d (±0.05)	0.40	0.50	0.40	0.50	0.40	0.50
F (±0.5)	1.5					
α	+0.3		+0.5		+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)	82	3.55×5.7	300	0.12	100	450
6.3(7.2)	100	4×5.7	300	0.12	100	650
6.3(7.2)	120	3.55×7	300	0.12	100	650
6.3(7.2)	150	4×7	300	0.12	100	850
6.3(7.2)	220	3.55×11	300	0.12	60	950
6.3(7.2)	270	4×11	415	0.12	60	1250
10(11.5)	47	3.55×5.7	300	0.12	100	450
10(11.5)	68	3.55×7	300	0.12	100	650
10(11.5)	68	4×5.7	300	0.12	100	650
10(11.5)	100	4×7	300	0.12	100	850
10(11.5)	120	3.55×11	300	0.12	60	950
10(11.5)	180	4×11	440	0.12	60	1250
16(18.4)	27	3.55×5.7	300	0.12	100	450
16(18.4)	39	3.55×7	300	0.12	100	650
16(18.4)	39	4×5.7	300	0.12	100	650
16(18.4)	56	4×7	300	0.12	100	850
16(18.4)	68	3.55×11	300	0.12	60	950
16(18.4)	100	4×11	384	0.12	60	1250
25(28.8)	15	3.55×5.7	300	0.12	100	350
25(28.8)	22	3.55×7	300	0.12	100	500
25(28.8)	22	4×5.7	300	0.12	100	500
25(28.8)	33	4×7	300	0.12	100	650
25(28.8)	47	3.55×11	300	0.12	100	750
25(28.8)	68	4×11	340	0.12	100	950
35(41)	12	3.55×5.7	300	0.12	100	350
35(41)	18	3.55×7	300	0.12	100	500
35(41)	18	4×5.7	300	0.12	100	500
35(41)	22	4×7	300	0.12	100	650
35(41)	33	3.55×11	300	0.12	100	750
35(41)	56	4×11	329	0.12	100	950
50(58)	4.7	3.55×5.7	300	0.12	100	350
50(58)	6.8	3.55×7	300	0.12	100	500
50(58)	6.8	4×5.7	300	0.12	100	500
50(58)	12	3.55×11	300	0.12	100	750
50(58)	10	4×7	300	0.12	100	650
50(58)	22	4×11	300	0.12	100	950
63(73)	3.9	3.55×5.7	300	0.12	100	350
63(73)	5.6	3.55×7	300	0.12	100	500
63(73)	5.6	4×5.7	300	0.12	100	500
63(73)	8.2	4×7	300	0.12	100	650
63(73)	10	3.55×11	300	0.12	100	750
63(73)	15	4×11	300	0.12	100	950
80(92)	2.2	3.55×5.7	300	0.12	100	350

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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
80(92)	3.3	3.55×7	300	0.12	100	500
80(92)	2.7	4×5.7	300	0.12	100	500
80(92)	4.7	4×7	300	0.12	100	650
80(92)	5.6	3.55×11	300	0.12	100	750
80(92)	8.2	4×11	300	0.12	100	950
100(115)	1.2	3.55×5.7	300	0.12	100	350
100(115)	1.8	3.55×7	300	0.12	100	500
100(115)	1.8	4×5.7	300	0.12	100	500
100(115)	2.2	4×7	300	0.12	100	650
100(115)	3.3	3.55×11	300	0.12	100	750
100(115)	4.7	4×11	300	0.12	100	950