PART NUMBER CODE FOR MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

1	2	3	4	5	6	7	8	9	10	11	12	13	14

Products series	
Series	Code
L4M	L4M
L3M	L3M
LMM	LMM
LK7	LK7
KCX	KCX
KC	OKC
PKC	PKC
GP	OGP
LK	OLK
LKM	LKM
LKF	LKF
LKG	LKG
LKX	LKX
LKZ	LKZ
LLK	LLK
LKL	LKL
LKL(R)	LKL(R)
LKJ	LKJ
V3MC	V3MC
V3M	V3M
V4M	V4M
VMM	VMM
VK7	VK7
VKO	VKO
VKM	VKM
VKG	VKG
VKL	VKL
VKL(R)	VKL(R)
NP1	NP1
NPX	NPX
NPH	NPH
NPT	NPT
NPL	NPL
NPG	NPG
NPM	NPM
NPS	NPS
VP1	VP1
VPX	VPX
VPH	VPH
VPT	VPT
VPL	VPL
VPG	VPG
VPM	VPM
VPS	VPS
NGY	NGY
NHT	NHT
VGY	VGY
VHT	VHT

Size(mm)			
Diameter	Code	Height	Code
3.5	F	3.55	035
3.55	W	3.95	039
4	A	4.5	045
4.5	G	5	050
5	B	5.4	054
5.5	H	5.7	057
6.3	C	5.8	058
7	T	6.5	065
8	D	7	070
10	E	7.7	077
12.5	L	8	080
13	S	8.5	085
16	I	9	090
18	J	9.5	095
20	N	10	100
22	K	10.5	105
25	M	11	110
30	P	11.5	115
35	Q	12	120
40	R	12.5	125
		13	130
		13.5	135
		14	140
		14.5	145
		15	150
		16	160
		16.5	165
		17	170
		18	180
		19	190
		20	200
		21	210
		22	220
		23	230
		25	250
		28	280
		30	300
		31.5	315
		32	320
		35.5	355
		36	360
		40	400
		41.5	415
		45	450
		50	500

Rated Voltage(V)	
Voltage	Code
2.0V	0B
2.5V	0E
4V	0G
6.3V	0J
6.8V	0A
7.5V	0L
10V	1A
12V	1B
16V	1C
20V	1D
25V	1E
27V	1N
30V	1P
32V	1R
35V	1V
40V	1G
50V	1H
63V	1J
70V	1L
80V	1K
90V	1F
100V	2A
110V	2R
120V	2K
125V	2B
130V	1Q
140V	2Q
160V	2C
180V	2M
200V	2D
250V	2E
270V	2N
300V	2S
315V	2F
320V	1U
330V	2U
350V	2V
375V	2P
400V	2G
420V	2T
450V	2W
480V	2L
500V	2H
550V	2I
600V	2J
630V	2Y
650V	2X

Capacitance(uF)	
Capacitors	Code
0.1μF	R10
0.22μF	R22
0.33μF	R33
0.47μF	R47
0.56μF	R56
0.68μF	R68
0.82μF	R82
1.0μF	1R0
2.2μF	2R2
3.3μF	3R3
4.7μF	4R7
5.6μF	5R6
6.8μF	6R8
8.2μF	8R2
10μF	100
22μF	220
33μF	330
47μF	470
56μF	560
68μF	680
82μF	820
100μF	101
220μF	221
330μF	331
470μF	471
560μF	561
680μF	681
820μF	821
1000μF	102
1500μF	152
2200μF	222
3300μF	332
4700μF	472
6800μF	682
10000μF	103
22000μF	223
33000μF	333

Capacity range	
level	Code
±20%	M
±10%	K
0~+10%	R
0~−10%	T
−10~+20%	V
−20~+5%	L
−10~+5%	G
−10~+15%	H
0~+40%	I
±15%	J
−20~+50%	A
−5~−20%	B
−5~+20%	E
−15~+5%	C
−15~−5%	D
0~+20%	F
0~+15%	N
−5~+15%	W
−20~+0%	S
−20~+10%	P
0~+5%	Q

Auxiliary Code	
Auxiliary	
O	Lead30F/35F
H	Lead33F/38F
F	Lead22F/27F
A	Lead cutting figure A
B	Lead cutting figure B
C	Lead cutting figure C
D	Lead cutting figure D
E	Lead cutting figure E
Q	Lead cutting and bending 90° F figure A(right)
P	Lead cutting and bending 90° F figure B(left)
X	Lead cutting figure G
g	Lead cutting and double bending 90° F figure H(right)
f	Lead cutting and double bending 90° F figure H(left)
K	Taping A
J	Taping B
V	SMD
j	SAL capacitors

NPX

- 105℃ 2000 Hours
- Miniature Size Series
- High Stability, Low ESR, High Frequency
- RoHS Compliant（2011/65/EU）

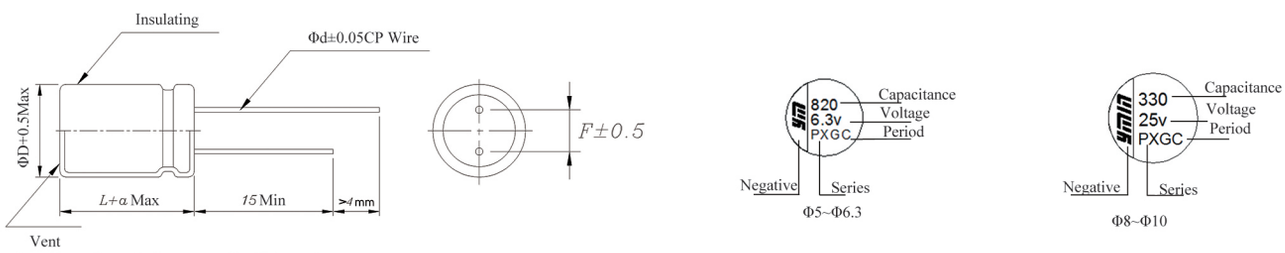


■ Specification

Items	Characteristics
Operation Temperature Range	-55℃~+105℃
Rated Voltage	6.3~100V
Capacitance Range	2.2~10000μF 120Hz/20℃
Capacitance Tolerance	±20%(120Hz/20℃)
Dissipation Factor	Less than standard data 120Hz/20℃
Leakage Current	Less than standard data charging 2mins with rated voltage, 20℃
ESR	Less than standard data 100KHz/20℃
Endurance	After load rated voltage for 2000hours at 105℃, the following specification shall be satisfied after placing capacitor for 16 hours at 20℃
	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℃ 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℃.
	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

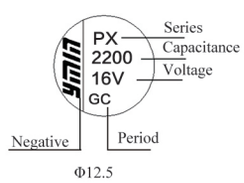
If you have question for leakage current, please apply rated voltage on capacitors at 105℃ for 2hours, then test the leakage current again at 20℃.

■ Standard Size



Remark:capacitors with diameter more than 6.3 have safety vent

D(±0.5)	5	5.5	6.3	8	10	12.5
d(±0.05)	0.45/0.50	0.45/0.50	0.45/0.50	0.6	0.6	0.6
F(±0.5)	2.0	2.5	2.5	3.5	5.0	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

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
6.3(7.2)	100	5×5.7	280	0.08	20	2400
6.3(7.2)	100	6.3×4.2	280	0.08	20	2500
6.3(7.2)	150	5×5.7	280	0.08	20	2400
6.3(7.2)	150	6.3×4.2	280	0.08	20	2500
6.3(7.2)	180	5×5.7	280	0.08	18	2600
6.3(7.2)	180	6.3×4.2	280	0.08	20	2500
6.3(7.2)	220	5×5.7	280	0.08	18	2600
6.3(7.2)	220	6.3×4.2	280	0.08	20	2500
6.3(7.2)	270	5×7	340	0.08	12	3400
6.3(7.2)	270	6.3×5.7	340	0.08	18	2800
6.3(7.2)	330	5×7	416	0.08	12	3400
6.3(7.2)	330	6.3×5.7	416	0.08	18	2800
6.3(7.2)	390	5×7	491	0.08	12	3400
6.3(7.2)	390	6.3×5.7	491	0.08	8	4800
6.3(7.2)	470	5×8	592	0.08	12	3650
6.3(7.2)	470	6.3×7	592	0.08	8	4800
6.3(7.2)	470	8×6	592	0.08	18	3000
6.3(7.2)	560	5.5×7	706	0.08	12	3800
6.3(7.2)	560	6.3×7	706	0.08	8	4800
6.3(7.2)	560	8×6	706	0.08	16	3450
6.3(7.2)	680	6.3×8	857	0.08	8	5000
6.3(7.2)	680	8×7	857	0.08	12	4200
6.3(7.2)	820	5.5×9	1033	0.08	8	4900
6.3(7.2)	820	6.3×7.5	1033	0.08	8	4900
6.3(7.2)	820	6.3×9	1033	0.08	8	5250
6.3(7.2)	820	8×7	1033	0.08	12	4200
6.3(7.2)	1000	6.3×10	1260	0.08	8	5500
6.3(7.2)	1000	8×8	1260	0.08	8	5600
6.3(7.2)	1000	10×7	1260	0.08	12	4500
6.3(7.2)	1200	6.3×11	1512	0.08	8	5700
6.3(7.2)	1200	8×9	1512	0.08	8	5800
6.3(7.2)	1200	10×8	1512	0.08	8	5800
6.3(7.2)	1500	8×11	1890	0.09	8	6150
6.3(7.2)	1500	10×9	1890	0.09	8	6050
6.3(7.2)	2000	8×14	2520	0.10	7	7250
6.3(7.2)	2000	10×10	2520	0.10	8	6300
6.3(7.2)	2200	8×14	2772	0.10	7	7500
6.3(7.2)	2200	10×10	2772	0.10	8	6300
6.3(7.2)	2500	10×11	3150	0.11	8	6500
6.3(7.2)	2700	10×11	3402	0.11	8	6500
6.3(7.2)	3300	10×12	4158	0.13	8	6640
6.3(7.2)	3900	10×14	4914	0.14	7	7600
6.3(7.2)	4700	10×16	5922	0.15	7	8100

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
6.3(7.2)	4700	12.5×12.5	5922	0.15	8	7600
6.3(7.2)	5600	10×18	7056	0.17	7	8500
6.3(7.2)	5600	12.5×14	7056	0.17	8	7900
6.3(7.2)	6800	10×21	7500	0.20	7	9100
6.3(7.2)	6800	12.5×16	7500	0.20	7	8950
6.3(7.2)	8200	12.5×18	7500	0.22	7	9450
6.3(7.2)	10000	12.5×20	7500	0.26	7	9850
7.5(8.6)	270	5×7	405	0.08	12	3400
7.5(8.6)	270	6.3×5.7	405	0.08	18	2800
7.5(8.6)	330	5×9	495	0.08	12	3800
7.5(8.6)	330	6.3×5.7	495	0.08	12	3700
7.5(8.6)	390	5×10	585	0.08	10	4350
7.5(8.6)	390	6.3×7	585	0.08	12	3900
7.5(8.6)	390	8×6	585	0.08	18	3250
7.5(8.6)	470	5×9	705	0.08	12	3850
7.5(8.6)	470	5×11	705	0.08	10	4500
7.5(8.6)	470	6.3×8	705	0.08	12	4100
7.5(8.6)	470	8×6	705	0.08	18	3000
7.5(8.6)	560	6.3×9	840	0.08	9	5000
7.5(8.6)	560	8×6	840	0.08	18	3250
7.5(8.6)	680	6.3×10	1020	0.08	8	5500
7.5(8.6)	680	8×7	1020	0.08	12	4200
7.5(8.6)	820	6.3×11	1230	0.08	8	5700
7.5(8.6)	820	8×8	1230	0.08	8	5600
7.5(8.6)	1000	6.3×11	1500	0.08	8	5900
7.5(8.6)	1000	8×9	1500	0.08	8	5800
10(11.5)	47	5×5.7	280	0.08	30	1900
10(11.5)	47	6.3×4.2	280	0.08	30	2100
10(11.5)	68	5×5.7	280	0.08	30	1900
10(11.5)	68	6.3×4.2	280	0.08	30	2100
10(11.5)	82	5×5.7	280	0.08	30	1900
10(11.5)	82	6.3×4.2	280	0.08	30	2100
10(11.5)	100	5×5.7	280	0.08	30	1900
10(11.5)	100	6.3×4.2	280	0.08	30	2100
10(11.5)	150	5×7	300	0.08	15	3050
10(11.5)	150	6.3×5.7	300	0.08	30	2200
10(11.5)	180	5×7	360	0.08	15	3050
10(11.5)	180	6.3×5.7	360	0.08	30	2200
10(11.5)	220	5×7	440	0.08	15	3050
10(11.5)	220	6.3×5.7	440	0.08	30	2200
10(11.5)	270	5×10	540	0.08	12	3950
10(11.5)	270	6.3×5.7	540	0.08	16	3200
10(11.5)	330	5×11	660	0.08	12	4100

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
10(11.5)	330	6.3×7	660	0.08	16	3200
10(11.5)	390	6.3×7	780	0.08	12	3900
10(11.5)	390	8×6	780	0.08	30	2550
10(11.5)	470	6.3×8	940	0.08	12	4300
10(11.5)	470	8×7	940	0.08	30	2550
10(11.5)	560	6.3×10	1120	0.08	10	4900
10(11.5)	560	8×7	1120	0.08	14	2550
10(11.5)	680	6.3×11	1360	0.08	9	5400
10(11.5)	680	8×8	1360	0.08	10	5100
10(11.5)	820	8×9	1640	0.08	9	5500
10(11.5)	820	10×7	1640	0.08	14	4500
10(11.5)	1000	8×11	2000	0.08	9	5800
10(11.5)	1000	10×8	2000	0.08	9	5500
10(11.5)	1500	8×14	3000	0.09	8	6800
10(11.5)	1500	10×12	3000	0.09	9	6300
10(11.5)	2200	10×14	4400	0.10	8	7000
10(11.5)	2500	10×14	5000	0.11	8	7000
10(11.5)	2700	10×16	5400	0.11	8	7500
10(11.5)	3300	10×18	6600	0.13	8	7900
10(11.5)	3300	12.5×14	6600	0.13	9	7500
10(11.5)	3900	10×21	7500	0.13	8	8400
10(11.5)	3900	12.5×16	7500	0.13	8	8400
10(11.5)	4700	12.5×18	7500	0.15	8	8400
10(11.5)	5600	12.5×18	7500	0.17	8	8800
10(11.5)	6800	12.5×20	7500	0.20	8	9200
12(13.8)	180	5×7	432	0.08	15	3050
12(13.8)	180	6.3×5.7	432	0.08	30	2200
12(13.8)	220	5×9	528	0.08	15	3400
12(13.8)	220	6.3×5.7	528	0.08	16	3200
12(13.8)	270	5×10	648	0.08	12	3950
12(13.8)	270	6.3×7	648	0.08	16	3200
12(13.8)	330	5×10	792	0.08	12	3950
12(13.8)	330	6.3×7	792	0.08	12	3900
12(13.8)	330	8×6	792	0.08	30	2550
12(13.8)	390	5.5×9	936	0.08	15	3450
12(13.8)	390	5×11	936	0.08	12	4100
12(13.8)	390	6.3×8	936	0.08	12	4100
12(13.8)	470	6.3×9	1128	0.08	12	4300
12(13.8)	470	8×7	1128	0.08	14	2550
12(13.8)	560	6.3×10	1344	0.08	10	4900
12(13.8)	560	8×7	1344	0.08	14	2550
12(13.8)	680	6.3×11	1632	0.08	9	5400
12(13.8)	680	8×8	1632	0.08	10	5100

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
12(13.8)	1000	8×9	2400	0.08	10	5200
16(18.4)	22	5×5.7	280	0.08	30	1900
16(18.4)	22	6.3×4.2	280	0.08	30	2100
16(18.4)	33	5×5.7	280	0.08	30	1900
16(18.4)	33	6.3×4.2	280	0.08	30	2100
16(18.4)	47	5×5.7	280	0.08	30	1900
16(18.4)	47	6.3×4.2	280	0.08	30	2100
16(18.4)	68	5×5.7	280	0.08	30	1900
16(18.4)	68	6.3×4.2	280	0.08	30	2100
16(18.4)	82	5×5.7	280	0.08	30	1900
16(18.4)	82	6.3×4.2	280	0.08	30	2100
16(18.4)	100	5×5.7	320	0.08	30	2000
16(18.4)	100	5×7	320	0.08	30	2200
16(18.4)	100	6.3×5.7	320	0.08	30	2100
16(18.4)	150	5×7	480	0.08	30	2200
16(18.4)	150	6.3×5.7	480	0.08	30	2200
16(18.4)	220	5×9	704	0.08	12	3950
16(18.4)	220	5×10	704	0.08	12	3950
16(18.4)	220	6.3×5.7	704	0.08	20	2850
16(18.4)	220	6.3×5.7	704	0.08	20	2850
16(18.4)	270	6.3×7	864	0.08	15	3500
16(18.4)	270	8×6	864	0.08	30	2550
16(18.4)	330	6.3×8	1056	0.08	12	4300
16(18.4)	330	8×6	1056	0.08	30	2550
16(18.4)	390	6.3×8	1248	0.08	12	4300
16(18.4)	470	5.5×10	1504	0.08	12	4200
16(18.4)	470	6.3×10	1504	0.08	10	4900
16(18.4)	470	8×7	1504	0.08	20	3300
16(18.4)	560	6.3×10	1792	0.08	10	4900
16(18.4)	560	8×9	1792	0.08	12	4700
16(18.4)	560	10×8	1792	0.08	12	4700
16(18.4)	680	6.3×11	2176	0.08	10	5350
16(18.4)	680	8×10	2176	0.08	10	5350
16(18.4)	680	10×8	2176	0.08	12	4700
16(18.4)	820	8×11	2624	0.08	10	5500
16(18.4)	820	10×9	2624	0.08	12	4950
16(18.4)	1000	8×11	3200	0.08	10	5800
16(18.4)	1000	8×14	3200	0.08	8	6800
16(18.4)	1000	10×10	3200	0.08	12	5200
16(18.4)	1500	8×14	3200	0.09	12	8400
16(18.4)	1500	10×12	4800	0.09	8	8400
16(18.4)	1800	10×13	5760	0.10	8	7000
16(18.4)	2200	10×15	7040	0.10	8	7500

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
16(18.4)	2200	10×18	7040	0.10	8	7900
16(18.4)	2200	12.5×14	7040	0.10	10	7100
16(18.4)	2700	10×16	7500	0.11	8	7800
16(18.4)	2700	10×21	7500	0.11	8	8400
16(18.4)	2700	12.5×14	7500	0.11	10	7100
16(18.4)	3300	10×18	7500	0.13	8	8400
16(18.4)	3300	12.5×16	7500	0.13	8	8400
16(18.4)	3900	12.5×18	7500	0.14	8	8800
16(18.4)	4700	12.5×20	7500	0.15	8	9200
25(28.8)	10	5×5.7	280	0.08	40	1650
25(28.8)	10	6.3×4.2	280	0.08	40	1800
25(28.8)	15	5×5.7	280	0.08	40	1650
25(28.8)	15	6.3×4.2	280	0.08	40	1800
25(28.8)	22	5×5.7	280	0.08	40	1650
25(28.8)	22	6.3×4.2	280	0.08	40	1800
25(28.8)	33	5×5.7	280	0.08	40	1650
25(28.8)	33	6.3×4.2	280	0.08	40	1800
25(28.8)	39	5×5.7	280	0.08	40	1650
25(28.8)	39	6.3×4.2	280	0.08	40	1800
25(28.8)	47	5×5.7	280	0.08	30	2050
25(28.8)	47	6.3×4.2	280	0.08	40	1800
25(28.8)	68	5×7	340	0.08	30	2200
25(28.8)	68	6.3×5.7	340	0.08	40	1900
25(28.8)	100	5×9	500	0.08	30	2400
25(28.8)	100	6.3×5.7	500	0.08	30	2350
25(28.8)	150	6.3×8	750	0.08	16	3550
25(28.8)	150	8×6	750	0.08	30	2550
25(28.8)	180	6.3×8	900	0.08	16	3550
25(28.8)	180	8×7	900	0.08	30	2550
25(28.8)	220	6.3×9	1100	0.08	20	3500
25(28.8)	220	8×7	1100	0.08	30	2700
25(28.8)	220	10×6	1100	0.08	30	2700
25(28.8)	330	8×9	1650	0.08	16	4000
25(28.8)	330	10×8	1650	0.08	16	4100
25(28.8)	470	8×11	2350	0.08	16	4200
25(28.8)	470	8×14	2350	0.08	16	4800
25(28.8)	470	10×9	2350	0.08	16	4300
25(28.8)	560	8×11	2800	0.08	16	4400
25(28.8)	560	8×14	2800	0.08	16	4800
25(28.8)	560	10×10	2800	0.08	16	4500
25(28.8)	680	8×14	3400	0.08	16	4800
25(28.8)	680	10×12	3400	0.08	16	4700
25(28.8)	820	8×16	4100	0.08	16	5050

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
25(28.8)	820	8×14	4100	0.08	16	4900
25(28.8)	820	10×13	4100	0.08	16	4800
25(28.8)	1000	10×16	5000	0.08	16	5300
25(28.8)	1000	12.5×12.5	5000	0.08	16	5300
25(28.8)	1500	10×18	7500	0.09	16	5600
25(28.8)	1500	12.5×14	7500	0.09	16	5600
25(28.8)	1800	10×21	7500	0.10	16	6000
25(28.8)	1800	12.5×16	7500	0.10	16	5900
25(28.8)	2200	12.5×18	7500	0.10	16	6200
25(28.8)	2700	12.5×20	7500	0.11	16	6500
35(41)	10	5×5.7	300	0.12	60	1350
35(41)	10	6.3×4.2	300	0.12	60	1400
35(41)	15	5×5.7	300	0.12	60	1350
35(41)	15	6.3×4.2	300	0.12	60	1400
35(41)	22	5×5.7	300	0.12	60	1450
35(41)	22	6.3×4.2	300	0.12	60	1400
35(41)	33	5×5.7	300	0.12	60	1450
35(41)	33	6.3×4.2	300	0.12	60	1400
35(41)	39	5×7	300	0.12	50	1700
35(41)	39	6.3×5.7	300	0.12	60	1550
35(41)	47	5×7	329	0.12	50	1700
35(41)	47	6.3×5.7	329	0.12	60	1550
35(41)	56	5×7	392	0.12	50	1700
35(41)	56	6.3×5.7	392	0.12	60	1650
35(41)	68	5×8	476	0.12	50	1800
35(41)	68	6.3×5.7	476	0.12	60	1650
35(41)	68	8×6	476	0.12	60	1650
35(41)	82	5×9	574	0.12	50	1900
35(41)	82	6.3×7	574	0.12	50	1900
35(41)	100	6.3×7	700	0.12	50	1900
35(41)	100	8×6	700	0.12	60	1800
35(41)	120	6.3×8	840	0.12	50	2050
35(41)	120	8×7	840	0.12	60	1900
35(41)	150	6.3×9	1050	0.12	50	2150
35(41)	150	8×7	1050	0.12	60	1900
35(41)	180	6.3×10	1260	0.12	40	2500
35(41)	180	8×7	1260	0.12	60	1900
35(41)	220	6.3×11	1540	0.12	40	2600
35(41)	220	8×8	1540	0.12	50	2200
35(41)	220	10×7	1540	0.12	60	2050
35(41)	330	8×10	2310	0.12	30	3100
35(41)	330	10×8	2310	0.12	50	2350
35(41)	390	8×11	2730	0.12	30	3200

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
35(41)	390	10×10	2730	0.12	50	2550
35(41)	470	8×14	3290	0.12	20	4250
35(41)	470	10×11	3290	0.12	30	3400
35(41)	560	8×16	3920	0.12	20	4550
35(41)	560	10×12	3920	0.12	30	3450
35(41)	680	10×14	4760	0.12	20	4450
35(41)	820	10×16	5000	0.12	20	4700
35(41)	820	12.5×12.5	5000	0.12	30	3900
35(41)	1000	10×18	5000	0.12	20	5000
35(41)	1000	12.5×14	5000	0.12	30	4100
35(41)	1200	10×21	5000	0.12	20	5300
35(41)	1200	12.5×16	5000	0.12	20	5300
35(41)	1500	12.5×18	5000	0.13	20	5600
35(41)	1800	12.5×20	5000	0.14	20	5850
50(58)	10	5×5.7	300	0.12	60	1350
50(58)	10	6.3×4.2	300	0.12	60	1400
50(58)	12	5×5.7	300	0.12	60	1350
50(58)	12	6.3×4.2	300	0.12	60	1400
50(58)	15	5×5.7	300	0.12	60	1450
50(58)	15	6.3×4.2	300	0.12	60	1400
50(58)	18	5×5.7	300	0.12	60	1450
50(58)	18	6.3×4.2	300	0.12	60	1400
50(58)	22	5×7	300	0.12	60	1450
50(58)	22	6.3×5.7	300	0.12	60	1550
50(58)	33	5×8	330	0.12	50	1800
50(58)	33	6.3×5.7	330	0.12	60	1650
50(58)	39	5×10	390	0.12	40	2200
50(58)	39	6.3×7	390	0.12	60	1650
50(58)	47	6.3×7	470	0.12	50	1900
50(58)	47	8×6	470	0.12	60	1650
50(58)	56	6.3×8	560	0.12	50	1900
50(58)	56	8×7	560	0.12	60	1800
50(58)	68	6.3×9	680	0.12	50	2150
50(58)	68	8×7	680	0.12	60	1800
50(58)	82	6.3×10	820	0.12	40	2500
50(58)	82	8×7	820	0.12	60	1900
50(58)	100	8×8	1000	0.12	50	2200
50(58)	100	10×6.5	1000	0.12	60	2000
50(58)	120	8×9	1200	0.12	50	2300
50(58)	120	10×7	1200	0.12	60	2050
50(58)	150	8×9	1500	0.12	50	2300
50(58)	150	10×8	1500	0.12	50	2350
50(58)	180	8×11	1800	0.12	40	2800

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
50(58)	180	10×9	1800	0.12	50	2450
50(58)	220	8×14	2200	0.12	30	3500
50(58)	220	10×9	2200	0.12	50	2450
50(58)	220	10×11	2200	0.12	40	2900
50(58)	270	8×16	2700	0.12	30	3700
50(58)	270	10×13	2700	0.12	40	3000
50(58)	330	10×16	3300	0.12	30	3800
50(58)	390	10×16	3900	0.12	30	3800
50(58)	390	12.5×12.5	3900	0.12	40	3350
50(58)	470	10×18	4700	0.12	30	4050
50(58)	470	12.5×14	4700	0.12	40	3500
50(58)	560	10×21	5000	0.12	30	4350
50(58)	560	12.5×16	5000	0.12	30	4300
50(58)	680	12.5×18	5000	0.12	30	4550
50(58)	820	12.5×20	5000	0.12	30	4750
63(73)	6.8	5×5.7	300	0.12	60	1350
63(73)	6.8	6.3×4.2	300	0.12	60	1400
63(73)	8.2	5×5.7	300	0.12	60	1450
63(73)	8.2	6.3×4.2	300	0.12	60	1400
63(73)	10	5×5.7	300	0.12	60	1450
63(73)	10	6.3×4.2	300	0.12	60	1400
63(73)	15	5×7	300	0.12	60	1450
63(73)	15	6.3×4.2	300	0.12	60	1400
63(73)	22	5×9	300	0.12	50	1900
63(73)	22	6.3×7	300	0.12	50	1900
63(73)	33	6.3×7	416	0.12	50	1900
63(73)	33	8×7	416	0.12	60	1800
63(73)	39	6.3×9	491	0.12	50	2150
63(73)	39	8×7	491	0.12	60	1800
63(73)	47	6.3×10	592	0.12	40	2500
63(73)	47	8×7	592	0.12	60	1900
63(73)	56	8×8	706	0.12	50	2200
63(73)	56	10×6	706	0.12	60	1950
63(73)	68	8×9	857	0.12	50	2300
63(73)	68	10×7	857	0.12	60	2050
63(73)	82	8×9	1033	0.12	50	2300
63(73)	82	10×7	1033	0.12	60	2050
63(73)	100	8×10	1260	0.12	40	2700
63(73)	100	10×8	1260	0.12	50	2350
63(73)	120	8×13	1512	0.12	40	3000
63(73)	120	10×9	1512	0.12	50	2450
63(73)	150	8×16	1890	0.12	30	3700
63(73)	150	10×13	1890	0.12	40	3000

NPX

■ Standard Size

Rated Voltage (Surge Voltage) (V)	Capacitance (μF)	Size ΦD×L(mm)	L.C. (μA,2min)	Tanδ 120Hz	ESR (mΩ100kHz)	Ripple current (mA/r.m.s) 105°C100kHz
63(73)	180	10×14	2268	0.12	30	3600
63(73)	220	10×16	2772	0.12	30	3800
63(73)	220	12.5×12.5	2772	0.12	40	3350
63(73)	270	10×18	3402	0.12	30	4050
63(73)	270	12.5×14	3402	0.12	40	3500
63(73)	330	10×21	4158	0.12	30	4350
63(73)	330	12.5×16	4158	0.12	30	4300
63(73)	390	12.5×18	4914	0.12	30	4550
63(73)	470	12.5×20	5000	0.12	30	4750
80(92)	4.7	5×5.7	300	0.12	60	1350
80(92)	4.7	6.3×4.2	300	0.12	60	1400
80(92)	6.8	5×5.7	300	0.12	60	1450
80(92)	6.8	6.3×4.2	300	0.12	60	1400
80(92)	8.2	5×5.7	300	0.12	60	1450
80(92)	8.2	6.3×4.2	300	0.12	60	1400
80(92)	10	5×7	300	0.12	60	1450
80(92)	10	6.3×4.2	300	0.12	60	1400
80(92)	15	5×9	300	0.12	50	1900
80(92)	15	6.3×7	300	0.12	50	1900
80(92)	22	6.3×7	352	0.12	50	1900
80(92)	22	8×7	352	0.12	60	1800
80(92)	33	6.3×10	528	0.12	40	2500
80(92)	33	8×7	528	0.12	60	1800
80(92)	39	6.3×11	624	0.12	40	2600
80(92)	39	8×8	624	0.12	50	2200
80(92)	47	8×8	752	0.12	50	2200
80(92)	47	10×7	752	0.12	60	2050
80(92)	56	8×9	896	0.12	50	2300
80(92)	56	10×9	896	0.12	50	2450
80(92)	68	8×10	1088	0.12	40	2700
80(92)	68	10×9	1088	0.12	50	2450
80(92)	82	8×12	1312	0.12	40	2900
80(92)	82	10×10	1312	0.12	50	2550
80(92)	100	8×14	1600	0.12	30	3500
80(92)	100	10×12	1600	0.12	40	2950
80(92)	120	8×16	1920	0.12	30	3700
80(92)	120	10×13	1920	0.12	40	3000
80(92)	150	10×16	2400	0.12	30	3800
80(92)	150	12.5×12.5	2400	0.12	40	3350
80(92)	180	10×18	2880	0.12	30	4050
80(92)	180	12.5×14	2880	0.12	40	3500
80(92)	220	10×21	3520	0.12	30	4350
80(92)	220	12.5×16	3520	0.12	30	4300