PX series Low Profile

Features

- ◆ Low profile
- ◆ Low ESR at high frequency range &.Large permissible ripple current.

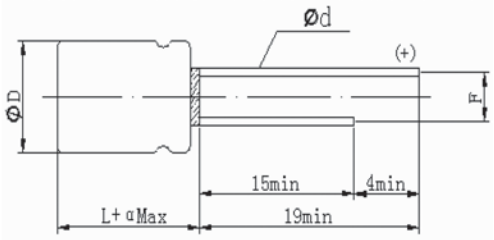
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	320 to 820 μF	
Capacitance Tolerance	±20%(120Hz,+20℃)	
Leakage Current (+20℃,max.)	Not to exceed the value specified (μA, after 2 minutes)	
Dissipation Factor (tan δ ，at 20℃，120Hz)	Not to exceed the value specified	
ESR（100K~300KHz）	Not to exceed the value specified	
Endurance 105℃，2000h，at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60℃，RH90~95%，1000h	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Frequency Coefficient for Ripple Current

Frequency	120Hz≦freq.<1KHz	1KHz≦freq.<10KHz	10KHz≦freq.<100KHz	100KHz≦freq.<300KHz
Coefficient	0.05	0.3	0.7	1

Diagram of Dimensions:(unit:mm)



ϕD×L	ϕD+0.5max.	α	F±0.5	ϕd±0.05
4×5 / 4×7	4	1.0	1.5	0.45
4×10	4.0	1.0	1.5	0.50
5×5 / 5×7	5	1.0	2.0	0.45
5×8 / 5×9	5	1.0	2.0	0.5
5×11	5	1.0	2.0	0.6
6.3×5.2 / 6.3×7	6.3	1.0	2.5	0.45
6.3×9	6.3	1.0	2.5	0.5
6.3×11	6.3	1.0	2.5	0.6

Dimensions & Characteristics

ϕDxL(mm)

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tg δ (120Hz,20℃)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	Size ΦD×L(mm)
2.5	100	300	0.08	30	1670	4×5
				30	1970	5×5
	150	300	0.08	30	1970	5×5
				30	2200	6.3×5.2
	180	300	0.08	30	1970	5×5
				30	2200	6.3×5.2
	220	300	0.08	30	2200	5×5
				30	2610	6.3×5.2
	270	300	0.08	25	2610	6.3×5.2
				20	2690	6.3×7
	330	300	0.08	25	2610	6.3×5.2
				20	2690	6.3×7
	390	300	0.08	20	2690	6.3×5.2/6.3×7
	470	300	0.08	15	3100	6.3×5.2/6.3×7
	560	300	0.08	15	3100	5×9
				15	3100	6.3×7
	680	300	0.08	15	3500	6.3×11
4	100	300	0.08	30	1970	5×5
	150	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	180	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	220	300	0.08	25	2610	6.3×5.2
				20	2690	6.3×7
	270	300	0.08	25	2610	6.3×5.2
				20	2690	6.3×7
	330	300	0.08	20	2690	6.3×5.2
				15	3100	6.3×7
	390	300	0.08	20	2690	6.3×5.2
				15	3100	6.3×7
	470	300	0.08	15	3100	6.3×7
	560	300	0.08	15	3500	6.3×11
6.3 / 6.8	100	300	0.08	35	1900	4×7
				25	2100	5×7
				25	2390	6.3×5.2
				20	2690	6.3×7
	150	300	0.08	35	1900	4×7
				25	2100	5×7
				25	2390	6.3×5.2
				20	2690	6.3×7
	180	300	0.08	30	1970	5×5
				25	2300	5×7
				20	2690	6.3×5.2
				20	2690	6.3.×7
	220	300	0.08	20	2450	5×7
				15	2690	5×8
				20	2690	6.3×5.2
				15	3100	6.3×7
	270	300	0.08	30	2000	4×10
				20	2450	5×7
				15	2690	5×8
				20	2690	6.3×5.2
				15	3100	6.3×7
	300	300	0.08	30	2000	4×10
	330	300	0.08	20	2690	6.3×5.2
				15	2690	5×8
				15	3100	5×9
				15	3100	6.3×7
	390	300	0.08	15	3100	5×9
				15	3100	6.3×7
				15	3100	6.3×9
				15	3500	6.3×11
	450	300	0.08	15	3100	6.3×7
				15	3100	6.3×9
				15	3500	6.3×11
	470	300	0.08	15	3100	6.3×7
				15	3100	6.3×9
				15	3500	6.3×11
	680	300	0.08	15	3100	6.3×9
				15	3500	6.3×11
	820	300	0.08	15	3500	6.3×11
7.5	270	300	0.08	15	2690	5×8
	330	300	0.08	15	3100	5×9
	390	300	0.08	15	3100	5×9
	470	300	0.08	15	3100	5×9
	500	300	0.08	15	3100	5×9
	680	300	0.08	15	3100	6.3×9
	680	300	0.08	15	3500	6.3×11

Ripple Current (mA, rms) at 105℃, 100KHz

W.V.（V）	Capacitance（μF）	L.C.（μA,2min）	tg δ (120Hz,20℃)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	Size ΦD×L(mm)
10	10	300	0.08	45	1200	4×5
	15	300	0.08	45	1200	4×5
	22	300	0.08	45	1200	4×5
	33	300	0.08	45	1670	5×5
				30	2200	6.3×5.2
	39	300	0.08	45	1670	5×5
				30	2200	6.3×5.2
	47	300	0.08	30	2200	6.3×5.2
				20	2690	6.3×7
	68	300	0.08	30	2200	6.3×5.2
				20	2690	6.3×7
	82	300	0.08	30	2200	6.3×5.2
				20	2690	6.3×7
	100	300	0.08	30	2200	6.3×5.2
				20	2690	6.3×7
	150	300	0.08	25	2200	6.3×5.2
				20	2690	6.3×7
	180	300	0.08	20	2690	5×11
				20	2690	6.3×7
				20	2690	6.3×9
	220	300	0.08	20	2690	5×11
				20	2690	6.3×7
				20	2690	6.3×9
	270	300	0.08	20	2690	5×11
				20	3100	6.3×7
				20	3100	6.3×9
				15	3500	6.3×11
	330	300	0.08	15	3100	6.3×9
				15	3500	6.3×11
	390	300	0.08	15	3100	6.3×9
				15	3500	6.3×11
	470	300	0.08	15	3100	6.3×9
				15	3500	6.3×11
16	10	300	0.08	30	2200	6.3×5.2
				25	2610	6.3×7
	15	300	0.08	30	2200	6.3×5.2
				25	2610	6.3×7
	22	300	0.08	30	2200	6.3×5.2
				25	2610	6.3×7
	33	300	0.08	30	2200	6.3×5.2
				25	2610	6.3×7
	47	300	0.08	30	2200	6.3×5.2
				25	2610	6.3×7
	68	300	0.08	30	2200	6.3×5.2
				20	2690	6.3×7
	82	300	0.08	20	2690	6.3×7
	100	300	0.08	30	2200	6.3×5.2
				20	2690	5×11
				20	2690	6.3×7
				15	3500	6.3×11
	150	300	0.08	20	2690	6.3×7
				15	3500	6.3×11
	180	300	0.08	20	3100	6.3×9
				15	3500	6.3×11
	220	300	0.08	20	3100	6.3×9
				15	3500	6.3×11
	270	300	0.08	15	3500	6.3×11
20	10	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	15	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	22	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	33	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	39	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	47	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	68	300	0.08	25	2670	6.3×9
				20	2900	6.3×11
	82	300	0.08	20	2900	6.3×11

W.V. （V）	Capacitance （μF）	L.C. （μA,2min）	tg δ (120Hz,20℃)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	Size ΦD×L(mm)
25	10	300	0.08	30	2200	6.3×5.2
				25	2670	6.3×7
	15	300	0.08	25	2200	6.3×5.2
					2670	6.3×7
	22	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	33	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	39	300	0.08	25	2670	6.3×7
				25	2670	6.3×9
	47	300	0.08	25	2670	6.3×9
				20	2900	6.3×11
	68	300	0.08	20	2900	6.3×11

Ripple Current (mA, rms) at 105℃, 100KHz

Size List

ϕDxL(mm)

WV (SV) Cap(μF)	2.5(2.8)	4(4.6)	6.3/6.8(7.2)	7.5(8.7)	10(11.5)	16(18.4)	20(23)	25(27.5)
10					4×5	6.3×5.2/6.3×7	6.3×5.2/6.3×7	6.3×5.2/6.3×7
15					4×5	6.3×5.2/6.3×7	6.3×5.2/6.3×7	6.3×5.2/6.3×7
22					4×5	6.3×5.2/6.3×7	6.3×5.2/6.3×7	6.3×7/6.3×9
33					5×5/6.3×5.2	6.3×5.2/6.3×7	6.3×7/6.3×9	6.3×7/6.3×9
39					5×5/6.3×5.2	6.3×5.2/6.3×7	6.3×7/6.3×9	6.3×7/6.3×9
47					6.3×5.2/6.3×7	6.3×5.2/6.3×7	6.3×7/6.3×9	6.3×9/6.3×11
68					6.3×5.2/6.3×7	6.3×5.2/6.3×7	6.3×9/6.3×11	6.3×11
82					6.3×5.2/6.3×7	6.3×7	6.3×11	
100	4×5/5×5	5×5	4×7/5×7 6.3×5.2/6.3×7		6.3×5.2/6.3×7	5×11/6.3×5.2 6.3×7/6.3×11		
150	5×5/6.3×5.2	6.3×5.2/6.3×7	4×7/5×7 6.3×5.2/6.3×7		6.3×5.2/6.3×7	6.3×7/6.3×11		
180	5×5/6.3×5.2	6.3×5.2/6.3×7	5×5/5×7 6.3×5.2/6.3×7		5×11/6.3×7 6.3×9	6.3×7/6.3×11		
220	5×5/6.3×5.2	6.3×5.2/6.3×7	5×7/5×8 6.3×5.2/6.3×7		5×11/6.3×7 6.3×9	6.3×9/6.3×11		
270	6.3×5.2/6.3×7	6.3×5.2/6.3×7	4×10/5×7 5×8/6.3×5.2 6.3×7		5×11/6.3×7 6.3×9/6.3×11	6.3×11		
330	6.3×5.2/6.3×7	6.3×5.2/6.3×7	5×8/5×9 6.3×5.2/6.3×7	5×9	6.3×9/6.3×11			
390	6.3×5.2/6.3×7	6.3×5.2/6.3×7	5×9/6.3×7 6.3×9/6.3×11	5×9	6.3×9/6.3×11			
450			6.3×7/6.3×9 6.3×11					
470	6.3×5.2/6.3×7	6.3×7	6.3×7/6.3×9 6.3×11	5×9	6.3×9/6.3×11			
500				5×9				
560	5×9/6.3×7	6.3×11						
680	6.3×11		6.3×9/6.3×11	6.3×9				
820			6.3×11					

Ripple Current (mA, rms) at 105℃ 100KHz