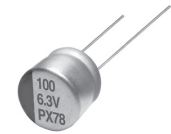


CapXon PX series

PX series Low Profile

Features

- ◆ Low profile
- ◆ Low ESR at high frequency range & Large permissible ripple current.
- ◆ Long life and high reliability(reliability: 0.1% / 1000Hrs).



Specifications

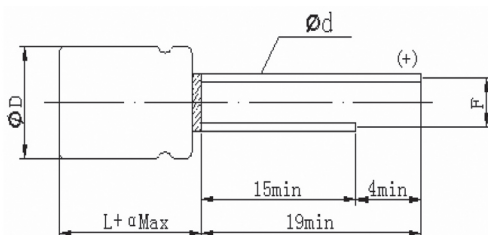
Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	10 to 560 μ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz,+20°C)	
Leakage Current (+20°C,max.)	Not to exceed the value specified (μ A, after 2 minutes)	
Dissipation Factor (tan δ , at 20°C , 120Hz)	Not to exceed the value specified	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C , 2000h , at rated voltage	Capacitance Change	Within $\pm 20\%$ 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°C , RH90~95% , 2000h	Capacitance Change	Within $\pm 20\%$ 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

Conductive Polymer

Frequency Coefficient for Ripple Current

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

Diagram of Dimensions:(unit:mm)



$\phi D \times L$	$\phi D + 0.5\text{max.}$	α	F	$\phi d \pm 0.05$
4 \times 5	4	1.0	1.5	0.45
5 \times 5	5	1.0	2.0	0.45
6.3 \times 5.2	6.3	1.0	2.5	0.45
6.3 \times 7	6.3	1.0	2.5	0.45
6.3 \times 10	6.3	1.0	2.5	0.6

CapXon PX series

Dimensions & Characteristics

φDxL(mm)

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tg δ (120Hz,20°C)	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
	100	300	0.08	30	1970	5×5
	150	300	0.08	30	1970	5×5
	150	300	0.08	30	2200	6.3×5.2
	180	300	0.08	30	1970	5×5
	180	300	0.08	30	2200	6.3×5.2
	220	300	0.08	30	2200	5×5
	220	300	0.08	30	2610	6.3×5.2
	270	300	0.08	25	2610	6.3×5.2
	270	300	0.08	20	2690	6.3×7
	330	300	0.08	25	2610	6.3×5.2
	330	300	0.08	20	2690	6.3×7
	390	300	0.08	20	2690	6.3×7
	470	300	0.08	15	3100	6.3×7
560	300	0.08	15	3100	6.3×7	
4.0	100	300	0.08	30	1970	5×5
	150	300	0.08	30	2200	6.3×5.2
	150	300	0.08	25	2670	6.3×7
	180	300	0.08	30	2200	6.3×5.2
	180	300	0.08	25	2670	6.3×7
	220	300	0.08	25	2610	6.3×5.2
	220	300	0.08	20	2690	6.3×7
	270	300	0.08	25	2610	6.3×5.2
	270	300	0.08	20	2690	6.3×7
	330	300	0.08	20	2690	6.3×5.2
	330	300	0.08	15	3100	6.3×7
	390	300	0.08	15	3100	6.3×7
	470	300	0.08	15	3100	6.3×7
	6.3	100	300	0.08	25	2390
100		300	0.08	20	2690	6.3×7
150		300	0.08	25	2390	6.3×5.2
150		300	0.08	20	2690	6.3×7
180		300	0.08	20	2690	6.3×7
220		300	0.08	15	3100	6.3×7
270		300	0.08	15	3100	6.3×7
330		300	0.08	15	3100	6.3×7
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
	33	300	0.08	30	2200	6.3×5.2
	39	300	0.08	45	1670	5×5
	39	300	0.08	30	2200	6.3×5.2
	47	300	0.08	30	2200	6.3×5.2
	47	300	0.08	20	2690	6.3×7
	68	300	0.08	30	2200	6.3×5.2
	68	300	0.08	20	2690	6.3×7
	82	300	0.08	30	2200	6.3×5.2
	82	300	0.08	20	2690	6.3×7
	100	300	0.08	30	2200	6.3×5.2
	100	300	0.08	20	2690	6.3×7
	150	300	0.08	20	2690	6.3×7
180	300	0.08	20	2690	6.3×7	
220	300	0.08	20	2690	6.3×7	
16	10	300	0.08	30	2200	6.3×5.2
	10	300	0.08	25	2610	6.3×7
	15	300	0.08	30	2200	6.3×5.2
	15	300	0.08	25	2610	6.3×7

Ripple Current (mA, rms) at 105°C, 100KHz

CapXon PX series

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (m Ω ,100kHz)	Maximum Permissible Ripple Current(mA,r.m.s)	Size Φ D \times L(mm)
16	22	300	0.08	30	2200	6.3 \times 5.2
	22	300	0.08	25	2610	6.3 \times 7
	33	300	0.08	30	2200	6.3 \times 5.2
	33	300	0.08	25	2610	6.3 \times 7
	47	300	0.08	30	2200	6.3 \times 5.2
	47	300	0.08	25	2610	6.3 \times 7
	68	300	0.08	30	2200	6.3 \times 5.2
	68	300	0.08	20	2690	6.3 \times 7
	82	300	0.08	20	2690	6.3 \times 7
	100	300	0.08	20	2690	6.3 \times 7
20	10	300	0.08	30	2200	6.3 \times 5.2
	10	300	0.08	25	2670	6.3 \times 7
	15	300	0.08	30	2200	6.3 \times 5.2
	15	300	0.08	25	2670	6.3 \times 7
	22	300	0.08	30	2200	6.3 \times 5.2
	22	300	0.08	25	2670	6.3 \times 7
	33	300	0.08	25	2670	6.3 \times 7
	39	300	0.08	25	2670	6.3 \times 7
	47	300	0.08	25	2670	6.3 \times 7
25	10	300	0.08	30	2200	6.3 \times 5.2
	10	300	0.08	25	2670	6.3 \times 7
	22	300	0.08	25	2670	6.3 \times 7
	33	300	0.08	25	2670	6.3 \times 7
	39	300	0.08	25	2670	6.3 \times 7

Ripple Current (mA, rms) at 105°C, 100KHz

Size List

Φ D \times L(mm)

WV (SV) Cap(μ F)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (27.5)
10				4X5	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7
15				4X5	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7
22				4X5	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7
33				5X5 / 6.3X5.2	6.3X5.2 / 6.3X7	6.3X7	6.3X7
39				5X5 / 6.3X5.2	6.3X5.2 / 6.3X7	6.3X7	6.3X7
47				6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7	
68				6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7		
82				6.3X5.2 / 6.3X7	6.3X7		
100	4X5 / 5X5	5X5	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7		
150	5X5 / 6.3X5.2	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7			
180	5X5 / 6.3X5.2	6.3X5.2 / 6.3X7	6.3X7	6.3X7			
220	5X5 / 6.3X5.2	6.3X5.2 / 6.3X7	6.3X7	6.3X7			
270	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7				
330	6.3X5.2 / 6.3X7	6.3X5.2 / 6.3X7	6.3X7				
390	6.3X7	6.3X7					
470	6.3X7	6.3X7					
560	6.3X7						

Ripple Current (mA, rms) at 105°C 100Hz