

CapXon PL series

PL series Low ESR $\leq 7m\Omega$

Features

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



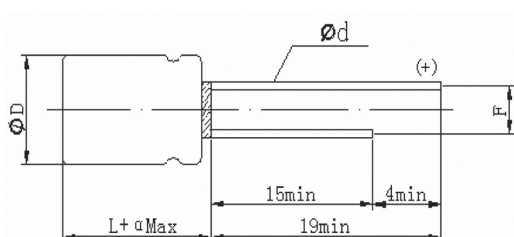
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~16 VDC	
Capacitance Range	180 to 3500 μ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)	
Leakage Current (+20°C, max.)	$\leq 0.2CV$ (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	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	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

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)



$\phi D \times L$	$\phi D + 0.5max.$	α	F	$\phi d \pm 0.05$
8 \times 8	8.0	1.0	3.5	0.6
8 \times 11.5	8.0	1.5	3.5	0.6
10 \times 12.5	10.0	1.5	5.0	0.6

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Dimensions & Characteristics

φ D×L(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 φ D×L(mm)
2.5	560	280	0.08	7	5600	8×8
						8×11.5
	680	340	0.08	7	5600	8×8
						8×11.5
	820	410	0.08	7	5600	8×8
						8×11.5
	1000	500	0.08	7	5600	8×11.5
	1200	600	0.08	7	5600	8×11.5
	1500	750	0.08	7	5600	8×11.5
	2000	1000	0.08	7	6100	10×12.5
	2500	1250	0.08	7	6100	10×12.5
	2700	1350	0.08	7	6100	10×12.5
3000	1500	0.08	7	6100	10×12.5	
3300	1650	0.08	7	6100	10×12.5	
3500	1750	0.08	7	6100	10×12.5	
4.0	560	224	0.08	7	5600	8×8
						8×11.5
	680	272	0.08	7	5600	8×8
						8×11.5
	820	328	0.08	7	5600	8×8
						8×11.5
	1000	800	0.08	7	6100	10×12.5
					5600	8×11.5
	1200	960	0.08	7	5600	8×11.5
					6100	10×12.5
	1500	1200	0.08	7	6100	10×12.5
	2000	1600	0.08	7	6100	10×12.5
2500	1500	0.08	7	6100	10×12.5	
6.3	180	226.8	0.07	7	5100	8×8
					5600	8×11.5
	220	277	0.07	7	5100	8×8
					5600	8×11.5
	270	340.2	0.07	7	5100	8×8
					5600	8×11.5
	330	416	0.07	7	5100	8×8
					5600	8×11.5
	390	491.4	0.08	7	5100	8×8
					5600	8×11.5
	470	592	0.08	7	5600	8×8
					5600	8×11.5
	560	705.6	0.08	7	5600	8×8
					5600	8×11.5
680	428	0.08	7	5600	8×11.5	
820	516.6	0.10	7	5600	8×11.5	
1000	630	0.10	7	6100	10×12.5	
1200	756	0.10	7	5600	8×11.5	
				6100	10×12.5	
1500	945	0.10	7	6100	10×12.5	
2000	1260	0.10	7	6100	10×12.5	

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

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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)
10	180	180	0.07	7	5600	8 \times 11.5
	220	220	0.08	7	5600	8 \times 11.5
	270	270	0.08	7	5600	8 \times 11.5
	330	330	0.08	7	5600	8 \times 11.5
	390	390	0.08	7	5600	8 \times 11.5
	470	470	0.08	7	5600	8 \times 11.5
	560	560	0.10	7	5600	8 \times 11.5
	680	680	0.10	7	6100	10 \times 12.5
	820	820	0.10	7	6100	10 \times 12.5
	1000	1000	0.10	7	6100	10 \times 12.5
16	180	288	0.08	7	5600	8 \times 11.5
	220	352	0.08	7	5600	8 \times 11.5
	270	432	0.08	7	5600	8 \times 11.5
	330	528	0.08	7	5600	8 \times 11.5
					6100	10 \times 12.5
	390	624	0.08	7	6100	10 \times 12.5
	470	752	0.10	7	6100	10 \times 12.5
	560	896	0.10	7	6100	10 \times 12.5
	680	1000	0.10	7	6100	10 \times 12.5
	820	1280	0.10	7	6100	10 \times 12.5

Size List

		Φ D \times L(mm)				
RV (SV)	Cap(μ F)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
180				8x8 / 8x11.5	8x11.5	8x11.5
220				8x8 / 8x11.5	8x11.5	8x11.5
270				8x8 / 8x11.5	8x11.5	8x11.5
330				8x8 / 8x11.5	8x11.5	8x11.5 / 10x12.5
390				8x8 / 8x11.5	8x11.5	10x12.5
470				8x8 / 8x11.5	8x11.5	10x12.5
560	8x8 / 8x11.5	8x8 / 8x11.5	8x8 / 8x11.5	8x8 / 8x11.5	8x11.5	10x12.5
680	8x8 / 8x11.5	8x8 / 8x11.5	8x8 / 8x11.5	8x11.5	10x12.5	10x12.5
820	8x8 / 8x11.5	8x8 / 8x11.5 / 10x12.5	8x8 / 8x11.5 / 10x12.5	8x11.5	10x12.5	10x12.5
1000	8x11.5	8x11.5	8x11.5	10x12.5	10x12.5	
1200	8x11.5	8x11.5 / 10x12.5	8x11.5 / 10x12.5	8x11.5 / 10x12.5		
1500	8x11.5	10x12.5	10x12.5	10x12.5		
2000	10x12.5	10x12.5	10x12.5	10x12.5		
2500	10x12.5	10x12.5	10x12.5			
2700	10x12.5					
3000	10x12.5					
3300	10x12.5					
3500	10x12.5					

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