

CapXon PS series

PS series Standard Products

Features

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



Specifications

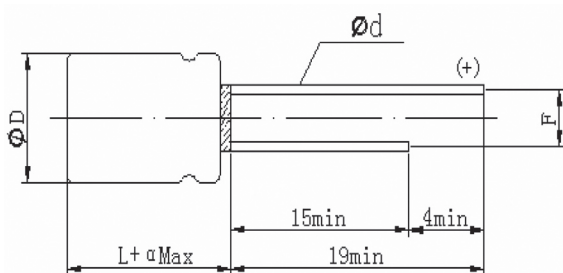
Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	39 to 3500 μ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz,+20°C)	
Leakage Current (+20°C,max.)	$\leq 0.2CV$ (μ A, after 2 minutes)	
Dissipation Factor (tan δ , at 20°C, 120Hz)	Not to exceed the value specified	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C, 2000h, at rated voltage	Capacitance 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	$\phi d \pm 0.05$
8 × 8	8.0	1.0	3.5	0.6
8 × 11.5	8.0	1.5	3.5	0.6
10 × 12.5	10.0	1.5	5.0	0.6

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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	560	280	0.08	12	4800	8×8
						8×11.5
	680	340	0.08	12	5000	8×8
						8×11.5
	820	410	0.08	12	5200	8×8
						8×11.5
	1000	500	0.08	12	5200	8×11.5
	1200	600	0.08	12	5200	8×11.5
	1500	750	0.08	12	5200	8×11.5
	2000	1000	0.08	12	5500	10×12.5
	2500	1250	0.08	12	5500	10×12.5
	2700	1350	0.08	12	5500	10×12.5
3000	1500	0.08	12	5500	10×12.5	
3300	1650	0.08	12	5500	10×12.5	
3500	1750	0.10	12	5500	10×12.5	
4.0	560	224	0.08	12	5000	8×8
					5200	8×11.5
	680	272	0.08	12	5000	8×8
					5200	8×11.5
	820	328	0.08	12	5000	8×8
					5200	8×11.5
	1200	960	0.10	12	5500	10×12.5
					5200	8×11.5
1500	1200	0.10	12	5500	10×12.5	
2000	1600	0.10	12	5500	10×12.5	
2500	2000	0.10	12	5500	10×12.5	
6.3	180	226.8	0.07	21	3700	8×8
					3900	8×11.5
	220	277	0.07	21	3700	8×8
					3900	8×11.5
	270	340.2	0.07	21	3700	8×8
					3900	8×11.5
	330	416	0.07	15	4300	8×8
					4500	8×11.5
	390	491	0.08	15	4300	8×8
					4500	8×11.5
	470	592	0.08	12	5000	8×8
					5200	8×11.5
	560	705.6	0.08	12	5000	8×8
					5200	8×11.5
	680	428	0.08	12	5200	8×11.5
					5500	10×12.5
820	516.6	0.10	12	5000	8×8	
				5200	8×11.5	
1000	630	0.10	12	5500	10×12.5	
				5500	10×12.5	
1200	756	0.10	12	5200	8×11.5	
				5500	10×12.5	
1500	945	0.10	12	5500	10×12.5	
2000	1260	0.10	12	5500	10×12.5	
10	180	180	0.08	15	5000	8×11.5
	220	220	0.08	15	5000	8×11.5
	270	270	0.08	15	5000	8×11.5
	330	330	0.08	12	5000	8×11.5
	390	390	0.08	12	5000	8×11.5
	470	470	0.08	12	5000	8×11.5
	560	560	0.08	12	5000	8×11.5
	680	680	0.10	12	5500	10×12.5

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

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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)
10	820	820	0.10	12	5500	10×12.5
	1000	1000	0.10	12	5500	10×12.5
	1200	1200	0.10	12	5500	10×12.5
16	100	160	0.08	15	3900	8×11.5
	180	288	0.08	15	3700	8×8
					3900	8×11.5
	220	352	0.08	15	3900	8×11.5
	270	432	0.08	15	3900	8×11.5
	330	528	0.08	12	3900	8×11.5
					5500	10×12.5
	390	624	0.08	12	5500	10×12.5
	470	752	0.10	12	5500	10×12.5
	560	896	0.10	12	5500	10×12.5
680	1000	0.10	12	5500	10×12.5	
820	1000	0.10	12	5500	10×12.5	
20	39	156	0.08	30	3000	8×11.5
	47	188	0.08	30	3000	8×11.5
	68	272	0.08	25	3900	8×11.5
	82	328	0.08	20	3900	8×11.5
	100	400	0.08	18	4100	10×12.5
	180	720	0.08	18	4100	10×12.5
	220	880	0.08	18	4100	10×12.5
25	39	195	0.08	25	3400	8×11.5
	47	235	0.08	20	3400	8×11.5
	68	340	0.08	20	3400	8×11.5
	82	410	0.08	20	3400	8×11.5
	100	500	0.08	20	4100	10×12.5
	180	900	0.08	20	4100	10×12.5
	220	1100	0.08	20	4100	10×12.5

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

Size List

φ D×L(mm)

WV (SV) Cap(μF)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (27.5)
39						8x11.5	8x11.5
47						8x11.5	8x11.5
68						8x11.5	8x11.5
82						8x11.5	8x11.5
100					8x11.5	10x12.5	10x12.5
180			8x8 / 8x11.5	8x11.5	8x8 / 8x11.5	10x12.5	10x12.5
220			8x8 / 8x11.5	8x11.5	8x11.5	10x12.5	10x12.5
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	8x11.5	8x11.5	10x12.5		
680	8x8 / 8x11.5	8x8 / 8x11.5	8x11.5 / 10x12.5	10x12.5	10x12.5		
820	8x8 / 8x11.5	8x8 / 8x11.5 / 10x12.5	8x8 / 8x11.5 / 10x12.5	10x12.5	10x12.5		
1000	8x11.5	8x11.5	10x12.5	10x12.5			
1200	8x11.5	8x11.5 / 10x12.5	8x11.5 / 10x12.5	10x12.5			
1500	8x11.5	10x12.5	10x12.5				
2000	10x12.5	10x12.5	10x12.5				
2500	10x12.5	10x12.5					
2700	10x12.5						
3000	10x12.5						
3300	10x12.5						
3500	10x12.5						

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