

CapXon PV series

PV series SMD type & Low height

Features

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



Specifications

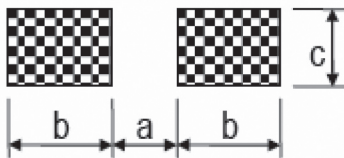
Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	39 to 2500 μ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)	
Leakage Current (+20°C,max.)	Not to exceed the value specified (μ A, after 2 minutes)	
Dissipation Factor (tan δ , 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

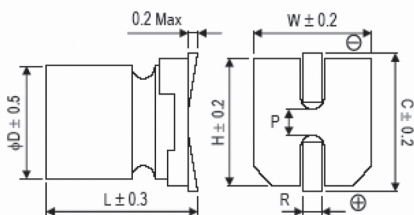
Frequency	120Hz \leq freq. < 1KHz	1KHz \leq freq. < 10KHz	10KHz \leq freq. < 100KHz	100KHz \leq freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Recommended land pattern:(unit:mm)



$\phi D \times L$	a	b	c
8X7.7	2.8	4.2	1.9
8X10.5	2.8	4.2	1.9
10X7.7	4.3	4.4	1.9
10X10.5	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



$\phi D \times L$	W	H	C	R	P
8X7.7	8.3	8.3	9.0	0.8 to 1.1	3.2
8X10.5	8.3	8.3	9.0	0.8 to 1.1	3.2
10X7.7	10.3	10.3	11.0	0.8 to 1.1	4.6
10X10.5	10.3	10.3	11.0	0.8 to 1.1	4.6

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Dimensions & Characteristics

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)	ϕ DxL(mm)	
						Size ϕ D \times L(mm)	
2.5	560	280	0.08	15	3700	8X7.7	
	680	340	0.08	15	3700	8X7.7	
	820	410	0.08	15	3700	8X7.7	
	1000	500	0.08	15	3700	8X7.7	
	1200	600	0.08	11	4800	8X10.5	
	1500	750	0.10	15	4100	10X7.7	
	2000	1000	0.10	15	4100	10X7.7	
	2500	1250	0.10	11	5100	10X10.5	
4.0	560	448	0.08	15	3700	8X7.7	
	560	448	0.08	11	4800	8X10.5	
	680	544	0.08	15	3700	8X7.7	
	680	544	0.08	11	4800	8X10.5	
	820	656	0.08	15	3700	8X7.7	
	820	656	0.08	11	4800	8X10.5	
	1000	800	0.10	11	4800	8X10.5	
	1200	960	0.10	15	4100	10X7.7	
	1200	960	0.10	11	5100	10X10.5	
	1500	1200	0.10	15	4100	10X7.7	
	1500	1200	0.10	11	5100	10X10.5	
	2000	1600	0.10	11	5100	10X10.5	
6.3	180	227	0.08	15	3700	8X7.7	
	220	277	0.08	15	3700	8X7.7	
	270	340	0.08	15	3700	8X7.7	
	330	416	0.08	15	3700	8X7.7	
	330	416	0.08	11	4800	8X10.5	
	390	491	0.08	15	3700	8X7.7	
	390	491	0.08	11	4800	8X10.5	
	470	592	0.08	15	3700	8X7.7	
	470	592	0.08	11	4800	8X10.5	
	560	705.6	0.08	15	3700	8X7.7	
	560	705.6	0.08	11	4800	8X10.5	
	680	856.8	0.08	11	4800	8X10.5	
	680	856.8	0.08	15	4100	10X7.7	
	820	1033.2	0.10	15	4100	10X7.7	
	820	1033.2	0.10	11	5100	10X10.5	
	1000	1260	0.10	15	4100	10X7.7	
	1000	1260	0.10	11	5100	10X10.5	
	1200	1260	0.10	11	5100	10X10.5	
10	180	360	0.08	15	3700	8X7.7	
	220	440	0.08	15	3700	8X7.7	
	330	660	0.08	15	3700	8X7.7	
	390	780	0.08	15	3700	8X7.7	
	470	940	0.08	11	4800	8X10.5	
	560	1120	0.08	15	4100	10X7.7	
	680	1360	0.10	15	4100	10X7.7	
	820	1640	0.10	11	5100	10X10.5	
	16	180	288	0.08	15	3700	8X7.7
		180	288	0.08	11	4800	8X10.5
220		352	0.08	15	3700	8X7.7	
220		352	0.08	11	4800	8X10.5	
270		432	0.08	11	4800	8X10.5	
270		432	0.08	15	4100	10X7.7	
330		528	0.08	11	4800	8X10.5	
330		528	0.08	15	4100	10X7.7	
390		624	0.10	11	5100	10X10.5	
470		752	0.10	11	5100	10X10.5	
20	39	156	0.08	18	3500	8X7.7	
	39	156	0.08	12	4500	8X10.5	
	47	188	0.08	18	3500	8X7.7	

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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)
20	47	188	0.08	12	4500	8X10.5
	68	272	0.08	18	3500	8X7.7
	68	272	0.08	12	4500	8X10.5
	82	328	0.08	18	3500	8X7.7
	82	328	0.08	12	4500	8X10.5
	100	400	0.08	18	3500	8X7.7
	100	400	0.08	12	4500	8X10.5
	150	600	0.08	12	4500	8X10.5
	150	600	0.08	15	4100	10X7.7
	180	720	0.10	15	4100	10X7.7
	180	720	0.10	11	5100	10X10.5
25	220	880	0.10	11	5100	10X10.5
	39	195	0.08	18	3500	8X7.7
	39	195	0.08	12	4500	8X10.5
	47	235	0.08	18	3500	8X7.7
	47	235	0.08	12	4500	8X10.5
	68	340	0.08	18	3500	8X7.7
	68	340	0.08	12	4500	8X10.5
	82	410	0.08	18	3500	8X7.7
	82	410	0.08	12	4500	8X10.5
	100	500	0.10	12	4500	8X10.5
	100	500	0.10	15	4100	10X7.7
150	750	0.10	12	5000	10X10.5	

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)
39						8X7.7 / 8X10.5	8X7.7 / 8X10.5
47						8X7.7 / 8X10.5	8X7.7 / 8X10.5
68						8X7.7 / 8X10.5	8X7.7 / 8X10.5
82						8X7.7 / 8X10.5	8X7.7 / 8X10.5
100						8X7.7 / 8X10.5	8x10.5 / 10X7.7
150						8x10.5 / 10X7.7	10X10.5
180			8X7.7	8X7.7	8X7.7 / 8X10.5	10X7.7 / 10X10.5	
220			8X7.7	8X7.7	8X7.7 / 8X10.5	10X10.5	
270			8X7.7	8X7.7	8x10.5 / 10X7.7		
330			8X7.7 / 8X10.5	8X7.7	8x10.5 / 10X7.7		
390			8X7.7 / 8X10.5	8X7.7	10X10.5		
470			8X7.7 / 8X10.5	8X10.5	10X10.5		
560	8X7.7	8X7.7 / 8X10.5	8X7.7 / 8X10.5	10X7.7			
680	8X7.7	8X7.7 / 8X10.5	8x10.5 / 10X7.7	10X7.7			
820	8X7.7	8X7.7 / 8X10.5	10X7.7 / 10X10.5	10X10.5			
1000	8X7.7	8X10.5	10X7.7 / 10X10.5				
1200	8X10.5	10X7.7 / 10X10.5	10X10.5				
1500	10X7.7	10X7.7 / 10X10.5					
2000	10X7.7	10X10.5					
2500	10X10.5						

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