

CapXon LP Series

LP Series Snap-in Type 85

Features

- Directly mountable on printed circuit board, without holders.
- Aluminum case designed explosion-proof vent.
- For detail specifications, please refer to Engineering Bulletin No. E106



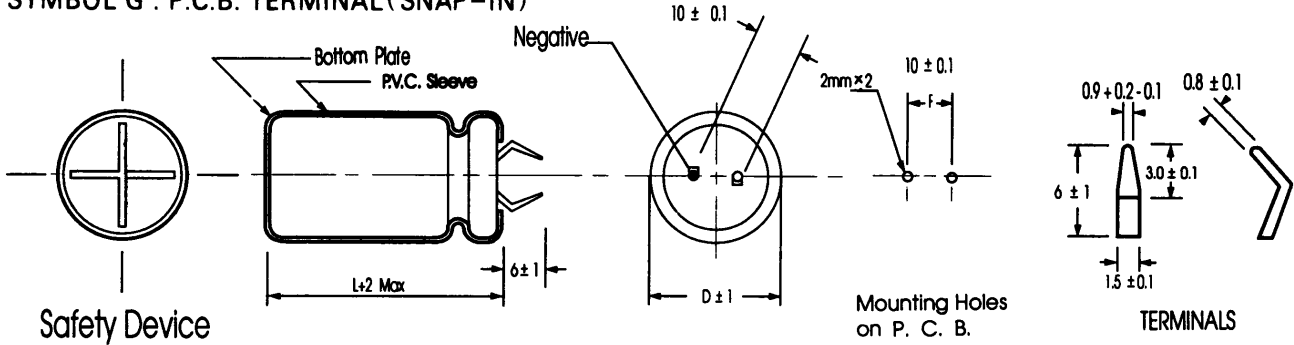
Specifications

Item	Performance Characteristics						
Operating Temperature Range	-40 to +85	-25 to +85					
Rated Voltage Range	10 to 100 VDC	160 to 450 VDC					
Capacitance Range	470 to 68000 μ F	47 to 2700 μ F					
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20)						
Leakage Current (+20 ,max.)	I 0.02CV After 5 minutes with rated working voltage applied.						
Dissipation Factor (tan)	Less than the value under table (%)						
	μ F \ WVDC	10~16	25~35	50~63	80~100	160~250	315~450
	47~390	—	—	—	—	15	20
	470~3900	25	20	20	20	15	20
	4700~8200	35	30	30	25	—	—
	10000~22000	40	35	30	—	—	—
	27000~47000	45	40	35	—	—	—
56000~68000	50	45	—	—	—	—	
	(+20 ,at 120Hz)						
Low Temperature Characteristics (120Hz)	Impedance ratio at 120 Hz -25 \ +20 : 3 max -40 \ +20 : 12 max						
Load Life	Test conditions Duration time :2000 Hrs Ambient temperature :+85 Applied voltage :Rated DC working voltage After test requirements at +20 Capacitance change : $\pm 20\%$ of the initial measured value Dissipation factor : 200% of the initial specified value Leakage current : The initial specified value						
Shelf Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85 Applied voltage :None After test requirements at +20 : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.						

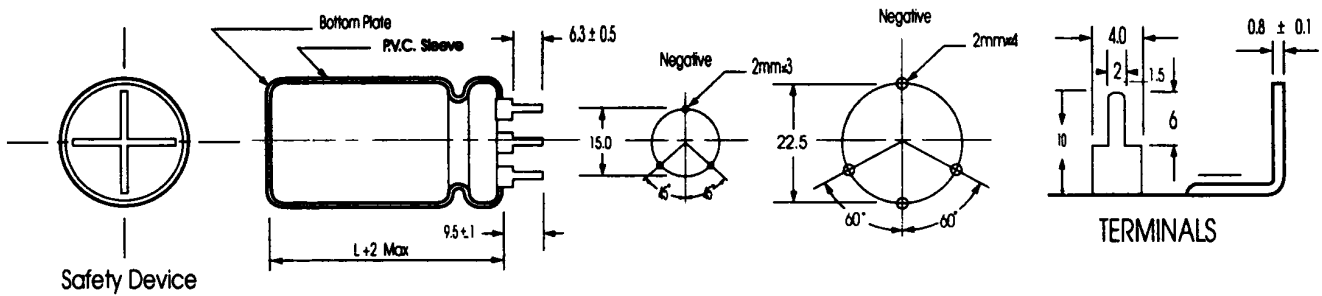
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Diagram of Dimensions:(unit:mm)

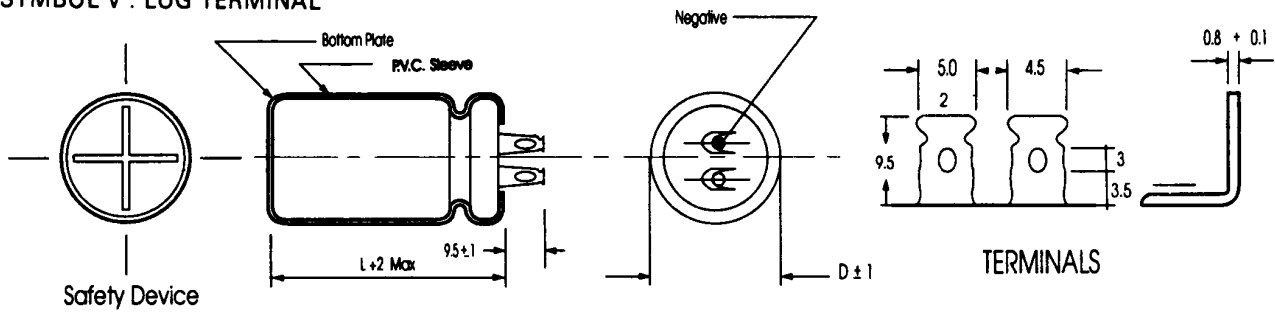
SYMBOL G : P.C.B. TERMINAL (SNAP-IN)



SYMBOL G : P.C.B. TERMINAL



SYMBOL V : LUG TERMINAL



Multiplier for Ripple Current vs. Frequency

CAP(μF)\Hz		50(60)	120	1K	10K	50K-100K
Multiplier	10 < CAP 100	0.8	1	1.36	1.48	1.53
	100 < CAP 1000	0.8	1	1.25	1.35	1.38
	1000 < CAP	0.8	1	1.17	1.25	1.28

Multiplier for Ripple Current vs. Temperature

Temperature	45	60	70	85
Multiplier	1.55	1.30	1.20	1.00

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Case Size and Maximum Ripple Current : (Unit A, rms 120Hz at 85)

WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)			
10	4700	22 x 21	2.40	16	4700	22 x 21	2.40	25	4700	22 x 26	2.64	35	2200	22 x 26	2.18			
	6800	22 x 26	2.84		6800	22 x 26	2.84		5600	22 x 31	2.78		3300	22 x 26	2.46			
	8200	22 x 26	2.90		8200	22 x 26	2.90		6800	22 x 31	2.93		3900	22 x 31	2.64			
	10000	22 x 31	3.06		10000	22 x 31	3.06			25 x 26			8200	22 x 31	3.05	4700	22 x 31	2.68
		25 x 26				25 x 26			25 x 26									
	12000	22 x 31	3.43		12000	22 x 31	3.43		10000	22 x 36	3.43		6800	22 x 36	3.06	10000	22 x 36	3.60
		25 x 26				25 x 31				25 x 31								
	15000	22 x 36	3.94		15000	22 x 36	3.94		18000	22 x 41	4.34		12000	22 x 41	3.84	10000	22 x 46	3.60
		25 x 31				25 x 31				30 x 26								
	18000	22 x 41	4.34		18000	22 x 41	4.34		22000	22 x 46	4.80		15000	22 x 41	4.39	15000	25 x 41	3.92
		25 x 31				25 x 31				30 x 31				30 x 31				
	22000	22 x 46	4.80		22000	22 x 46	4.80		27000	22 x 46	7.57		18000	25 x 46	4.80	12000	25 x 46	4.08
		30 x 31				30 x 31				30 x 36				30 x 36				
	27000	25 x 46	7.57		27000	25 x 46	7.57		33000	25 x 51	8.20		22000	30 x 31	5.40	15000	35 x 32	4.70
		30 x 36				30 x 36				25 x 51				30 x 41				
	33000	25 x 51	8.20		33000	25 x 51	8.20		39000	30 x 41	8.33		27000	25 x 51	5.97	18000	30 x 46	5.45
		30 x 41				30 x 41				30 x 46				35 x 37				
	39000	30 x 41	8.20		39000	30 x 41	8.20		47000	35 x 32	8.96		33000	30 x 41	6.24	22000	35 x 42	5.78
		35 x 32				35 x 32				30 x 51				30 x 51				
	47000	30 x 46	8.33		47000	30 x 46	8.33		56000	30 x 46	8.96		39000	30 x 46	7.10	33000	35 x 42	6.36
35 x 37		35 x 37		35 x 47		35 x 47												
56000	35 x 37	8.33	56000	35 x 37	8.33	68000	35 x 47	10.50	47000	35 x 47	7.60							
	35 x 47			35 x 47			35 x 52			35 x 52								
68000	35 x 52	10.80	68000	35 x 52	10.80													

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WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	
50	1500	22 x 26	1.44	63	1000	22 x 26	1.58	80	680	22 x 21	1.34	100	470	22 x 21	1.34	
	2200	22 x 26	2.04		1500	22 x 26	1.68		1000	22 x 26	1.62		680	22 x 26	1.53	
	2700	22 x 31	2.30		2200	22 x 31	2.52		1500	22 x 31	1.76		1000	22 x 31	1.62	
	3300	22 x 31	2.64			25 x 26				25 x 26						
		25 x 26			2700	22 x 36	2.82		1800	22 x 36	1.82		1200	22 x 36	1.74	
	4700	25 x 31	2.88			25 x 31				3300				22 x 41		3.12
		30 x 26			25 x 31	25 x 31	25 x 36		25 x 36							
		30 x 31			30 x 26	30 x 26	30 x 31		30 x 31							
	5600	25 x 51	3.06		3900	22 x 46	3.21		2700	22 x 46	2.76		1800	22 x 46	2.20	
		25 x 41				25 x 36				25 x 36				25 x 41		
	6800	30 x 31	3.24		4700	30 x 31	3.28		3300	30 x 31	3.24		2200	30 x 31	2.64	
		25 x 46				22 x 51				22 x 51				22 x 51		
		30 x 36				25 x 41				25 x 41				25 x 41		
	8200	25 x 46	3.48		5600	35 x 27	3.86		3900	25 x 46	3.40		2700	25 x 46	3.16	
		30 x 36				30 x 36				30 x 36				30 x 36		
	10000	25 x 51	3.96		6800	35 x 32	4.32		4700	30 x 36	3.60		3300	25 x 51	3.42	
		30 x 41				25 x 51				25 x 51				25 x 51		
		35 x 32				30 x 41				30 x 41				30 x 41		
	12000	30 x 46	4.10		8200	30 x 41	4.44		5600	30 x 46	3.78		3900	30 x 46	3.58	
		35 x 37				35 x 32				35 x 32				35 x 37		
15000	30 x 51	4.70	10000	35 x 32	4.77	6800	30 x 51	4.60	4700	30 x 51	3.72					
	35 x 42			30 x 46			30 x 46			35 x 42						
18000	35 x 47	5.31	15000	35 x 52	5.04	8200	35 x 52	4.92	5600	35 x 47	3.72					
22000	35 x 52	5.85				10000	35 x 63	5.04	6800	35 x 52	4.10					

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WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)	
160	180	22 x 21	1.12	200	150	22 x 21	0.96	250	120	22 x 21	0.85	350	100	22 x 26	0.76	
	270	22 x 26	1.35		220	22 x 26	1.36		150	22 x 26	0.98		120	22 x 31	0.89	
	330	22 x 26	1.44		270	22 x 26	1.50		180	22 x 26	1.12		150	25 x 26		0.99
	390	22 x 31	1.66		330	22 x 31	1.89		220	22 x 31	1.36			22 x 36	0.99	
		25 x 26				25 x 26										
	470	22 x 31	1.76		390	22 x 31	1.92		270	22 x 31	1.60		30 x 26	1.15		
		25 x 26				25 x 31										
	560	22 x 36	2.03		470	22 x 36	2.23		330	22 x 36	1.87		30 x 26	1.40		
		25 x 31				25 x 36										
		30 x 26				30 x 26										
	680	22 x 41	2.36		560	22 x 41	2.57		390	22 x 41	2.04		25 x 41	1.63		
		25 x 36				25 x 36										
		30 x 26				30 x 31										
	820	22 x 46	2.72		680	22 x 46	2.98		470	22 x 46	2.38		30 x 36	1.88		
		25 x 41				25 x 46										
		30 x 36				30 x 36										
	1000	25 x 46	3.13		820	25 x 46	3.26		560	25 x 46	2.81		35 x 27	2.12		
		30 x 36				30 x 36										
		35 x 32				35 x 27										
	1200	25 x 51	3.44		1000	25 x 51	3.92		680	25 x 51	3.11		30 x 41	2.41		
30 x 36		30 x 41														
35 x 32		35 x 32														
1500	30 x 46	3.96	1200	30 x 46	4.25	820	30 x 46	3.55	35 x 42	2.90						
	35 x 37			35 x 37												
1800	30 x 51	4.47	1500	30 x 51	4.99	1000	30 x 51	4.00	35 x 47	3.20						
	35 x 42			35 x 42												
2200	35 x 47	4.65	1800	35 x 47	5.84	1200	35 x 47	4.55								
2700	35 x 52	4.76	2200	35 x 52	6.07	1500	35 x 52	5.34								
						1800	40 x 52	6.11								

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WV	μF	Case Size DxL(mm)	Ir (A)	WV	μF	Case Size DxL(mm)	Ir (A)
400	47	22 x 21	0.42	450	47	22 x 26	0.36
	68	22 x 26	0.51		82	22 x 31	0.89
	82	22 x 26	0.83			100	
	100	22 x 31	1.03		120		22 x 41
		25 x 26				25 x 36	
	120	22 x 31	1.07		150		22 x 51
		25 x 26				25 x 41	
	150	22 x 36	1.26				30 x 31
		25 x 31			180	22 x 51	1.52
		30 x 26				30 x 36	
	180	22 x 41	1.46		220	25 x 51	1.76
		25 x 36				330	
		30 x 31			390		35 x 37
	220	22 x 51	1.75			470	35 x 42
		25 x 41			560		40 x 37
		30 x 36					
	270	25 x 46	1.96				
		30 x 36					
		35 x 32					
	330	25 x 51	2.26				
30 x 41							
35 x 37							
390	30 x 46	2.50					
	35 x 42						
470	35 x 47	2.80					
	40 x 37						
560	35 x 52	3.16					
680	40 x 52	3.59					