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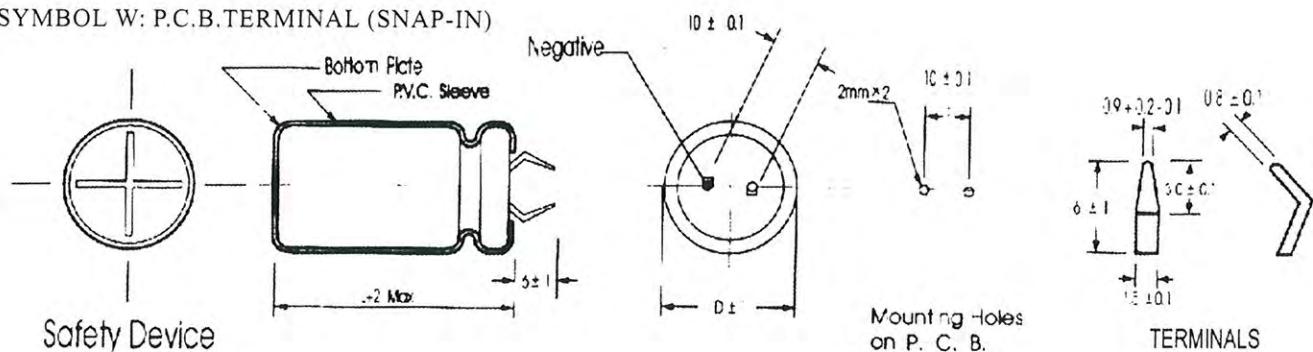
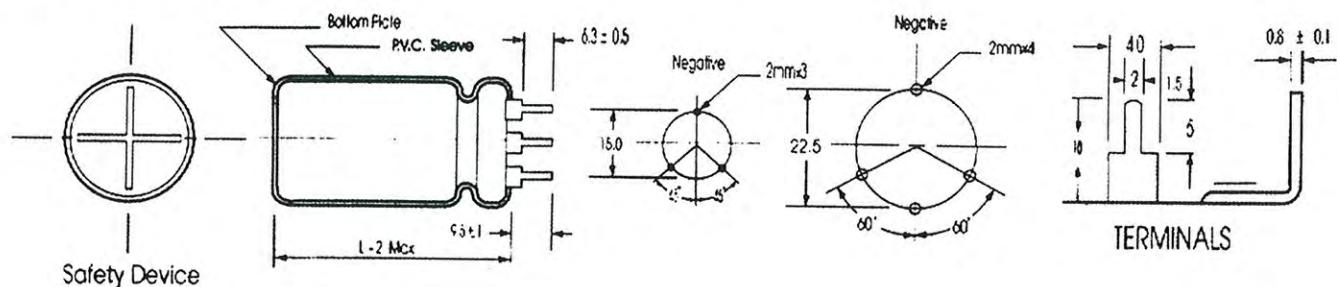
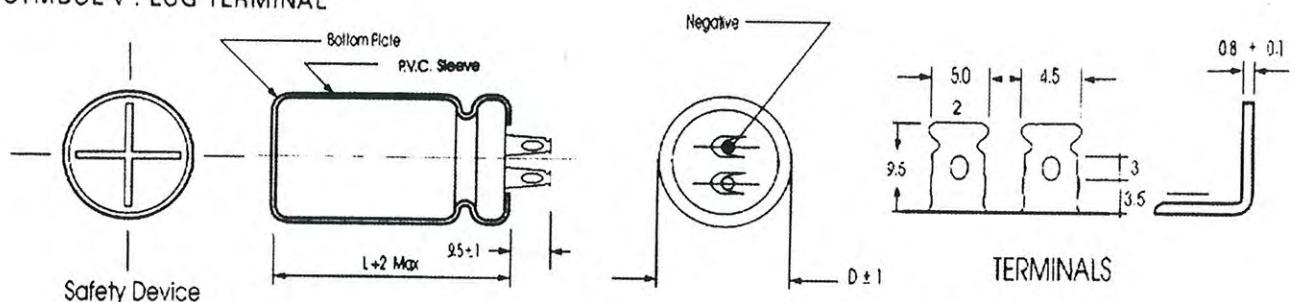
LP Series Snap-in Type 85°C

Features

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

Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 ~ +85°C			-25 to +85°C					
Rated voltage Range	10~100VDC			160 ~ 450 VDC					
Capacitance Range	470 ~ 68000 uF					47 ~ 2700 uF			
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current (+20°C,max.)	I ≤ 0.03 CV After 5 minutes								
Dissipation Factor(tan δ)	Less than the value under table (%)								
	uF \ 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	—	—	—		
Low Temperature Characteristics (120 Hz)	56000~68000	50	45	—	—	—	—		
	(±20°C, at 120Hz,max.)								
	Impedance ratio at 120 Hz -25°C \ + 20°C: 3 max -40°C \ + 20°C: 12 max								
Load Life	Test conditions Duration time : 2000 Hrs Ambient temperature: +85°C Applied voltage : Rated DC working voltage								
	After test requirements at +20°C Capacitance change: ≤ ± 20% of the initial measured value Dissipation factor : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value								
	Test conditions Duration time : 500 Hrs Ambient temperature: +85°C Applied voltage : None								
Shelf Life	After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								

Diagram of Dimensions:(Unit:mm)
SYMBOL W: P.C.B.TERMINAL (SNAP-IN)

SYMBOL G : P.C.B. TERMINAL

SYMBOL V : LUG TERMINAL

Multiplier for ripple current vs. Frequency

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

Multiplier for Ripple Current vs. Temperature

Temperature°C	45	60	70	85
Multiplier	1.55	1.30	1.20	1.00

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

WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)			
10	4700	22×21	2.40	16	4700	22×21	2.40	25	4700	22×26	2.64	35	2200	22×26	2.18			
	6800	22×26	2.84		6800	22×26	2.84		5600	22×31	2.78		3300	22×26	2.46			
	8200	22×26	2.90		8200	22×26	2.90		6800	22×31	2.93		3900	22×31	2.64			
	10000	22×31	3.06		10000	22×31	3.06		8200	22×31	3.05		4700	22×31	2.68			
		25×26				25×26				25×26				25×26				
	12000	22×31	3.43		12000	22×31	3.43		10000	22×36	3.43		6800	22×36	3.06			
		25×26				25×26				25×31				25×31				
	15000	22×36	3.94		15000	22×36	3.94		12000	22×41	3.84		10000	22×46	3.60			
		25×31				25×31				25×36				25×41				
	18000	25×41	4.34		18000	25×41	4.34		12000	30×31	4.39		12000	25×46	4.08			
		25×31				25×31				30×31				30×36				
	22000	22×46	4.80		22000	22×46	4.80		15000	22×51	4.80		15000	25×51	3.92			
		25×36				25×36				25×41				30×41				
	27000	30×31	7.57		27000	30×31	7.57		18000	30×36	5.40		18000	30×46	4.70			
		25×46				25×46				30×31				35×37				
	33000	30×36	8.20		33000	30×36	8.20		22000	25×51	5.97		22000	30×51	5.45			
		25×51				25×51				30×41				35×42				
	39000	30×41	8.33		39000	30×41	8.33		27000	30×46	6.24		27000	35×47	5.78			
		35×32				35×32				35×37				35×52				
	47000	30×46	8.96		47000	30×46	8.96		33000	30×51	7.10		33000	35×52	6.36			
		35×37				35×37				35×42								
	56000	30×51	8.96		47000	30×51	8.96		39000	35×47	7.60		47000	35×52	6.36			
		35×42				35×42				35×42								
	68000	35×47	10.5		56000	35×47	10.5		39000	35×47	7.10							
	68000	35×52	10.8		68000	35×52	10.8		47000	35×52	7.60							

WV	uF	Case Size ΦDxL(mm)	Ir (A)	WV	uF	Case Size ΦDxL(mm)	Ir (A)	WV	uF	Case Size ΦDxL(mm)	Ir (A)	WV	uF	Case Size ΦDxL(mm)	Ir (A)
50	1500	22x26	1.44	63	1000	22x26	1.58	80	680	22x21	1.34	100	470	22x21	1.34
	2200	22x26	2.04		1500	22x26	1.68		1000	22x26	1.62		680	22x26	1.53
	2700	22x31	2.30		2200	22x31	2.52		1500	22x31	1.76		1000	22x31	
	3300	22x31	2.64		25x36				25x26				1200	25x26	1.62
		25x26			22x36	2.82			22x36	1.82			1500	22x36	
		25x31	2.88		25x31				25x31	2.52			1500	25x31	1.74
	4700	30x26			22x41				22x41				1500	22x41	
		30x31			25x31	3.12			25x31				1500	25x36	1.85
		22x51	3.06		30x26				30x26				1800	30x31	
	5600	25x41			22x46				22x46	2.76			1800	22x46	
		30x31			25x36	3.21			25x36				1800	25x41	2.20
		22x51	3.24		30x31				30x31				100	30x31	
	6800	25x41			4700	22x51			22x51				2200	22x51	
		30x31			25x41	3.28			25x41	3.24			2200	25x41	2.64
		25x46	3.48		35x27				30x31				2700	30x31	
	8200	30x36			25x46				25x46	3.40			2700	25x46	
		25x51	3.96		30x36				30x36				3900	30x36	
	10000	30x41			35x32				25x51				3900	25x51	
		35x32			25x51				30x41	3.60			3300	30x41	3.42
		30x46	4.10		30x41				30x46				3900	30x46	
	12000	35x37			35x32				35x37	3.78			3900	35x37	3.58
		30x51	4.70		30x46				30x51				4700	30x51	
	15000	35x42			35x37	4.44			35x42	4.60			4700	35x42	3.72
	18000	35x47	5.31		8200	30x46			35x42				5600	35x47	3.72
	22000	35x52	5.85		35x42	4.770			35x52	4.92			6800	35x52	4.10
					1000	35x52	5.04		35x52						
									35x63	5.04					



LP Series

WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)	WV	uF	Case Size φDxL(mm)	Ir (A)	
180	22x21	1.12		150	22x21	0.96		120	22x21	0.85		100	22x26	0.76		
270	22x26	1.35		220	22x26	1.36		150	22x26	0.98		120	22x31		0.89	
330	22x26	1.44		270	22x26	1.50		180	22x26	1.12		25x26				
390	22x31		1.66	330	22x31		1.89	220	22x31		1.36	150	22x36		0.99	
	25x26				25x26				25x26				25x31			
470	22x31		1.76	390	22x31		1.92	270	22x31		1.60	180	22x41		1.15	
	25x26				25x26				25x26				25x36			
560	22x36		2.03	470	22x36		2.23	330	22x36		1.87	220	22x46		1.40	
	25x31				25x31				25x31				25x41			1.40
	30x26				30x26				30x26				30x31			
160	22x41		2.36	200	22x41		2.57	390	22x41		2.04	350	30x26		1.63	
	25x36				25x36				25x36				35x27			
	30x26				30x26				30x26				25x46			
680	22x46		2.72	250	22x46		2.98	470	22x46		2.38	270	25x46		1.63	
	25x41				25x36				25x41				30x36			
	30x26				30x26				30x31				35x27			
820	22x46		2.72	300	22x46		2.98	470	22x46		2.81	330	25x51		1.88	
	25x41				25x36				25x41				30x41			
	30x36				30x31				30x31				35x32			
1000	25x46		3.13	350	25x46		3.26	560	25x46		3.11	390	30x46		2.12	
	30x36				30x36				30x36				35x37			
	35x32				35x27				35x27				30x51			2.41
1200	25x51		3.44	400	25x51		3.92	680	25x51		4.00	470	30x51		2.41	
	30x36				30x41				30x41				35x42			
	35x32				35x32				35x32				35x47			
1500	30x46		3.96	450	30x46		4.25	820	30x46		4.00	560	35x47		2.90	
	35x37				35x37				35x37				35x52			
	30x51				30x51				30x51				35x52			
1800	35x42		4.47	500	35x42		4.99	1000	35x42		4.55	680			3.20	
	35x47				35x47				35x47							
2200	35x52	4.65		1800	35x47	5.84		1200	35x47	4.55		1500	35x52	5.34		
2700	35x52	4.76		2200	35x52	6.07		1800	40x52	6.11						

WV	uF	Case Size ϕDxL(mm)	Ir (A)	WV	uF	Case Size ϕDxL(mm)	Ir (A)	WV	uF	Case Size ϕDxL(mm)	Ir (A)	WV	uF	Case Size ϕDxL(mm)	Ir (A)						
400	47	22x21	0.42	400	220	22x51	1.75	450	47	22x26	0.36	450	330	30x46	2.29						
	68	22x26	0.51			25x41			82	22x31	0.89			35x37							
	82	22x26	0.83			30x36				25x26				390	35x42	2.54					
	100	22x31	1.03		270	25x46	1.96		100	22x36	1.03			40x37							
		25x26				30x36				25x31				470	35x47	2.89					
	120	22x31	1.07			35x32			120	22x41	1.19			560	40x42	3.26					
		25x26	330		25x51	2.26				25x36											
	150	22x36			1.26				30x41	150	22x51				1.39						
		25x31							35x37		25x41										
		30x26	390		30x46	2.50			30x31												
	180	22x41			1.46				35x42	180	22x51				1.52						
		25x36							35x47		2.80										30x36
		30x31	470		40x37	25x51	1.76														
					560	35x52									3.16		35x37				
					680	40x52									3.59						