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Jameco Part Number 331716



LP Series (自立型大電容)

LP Series Snap-in Type 85°C

Features

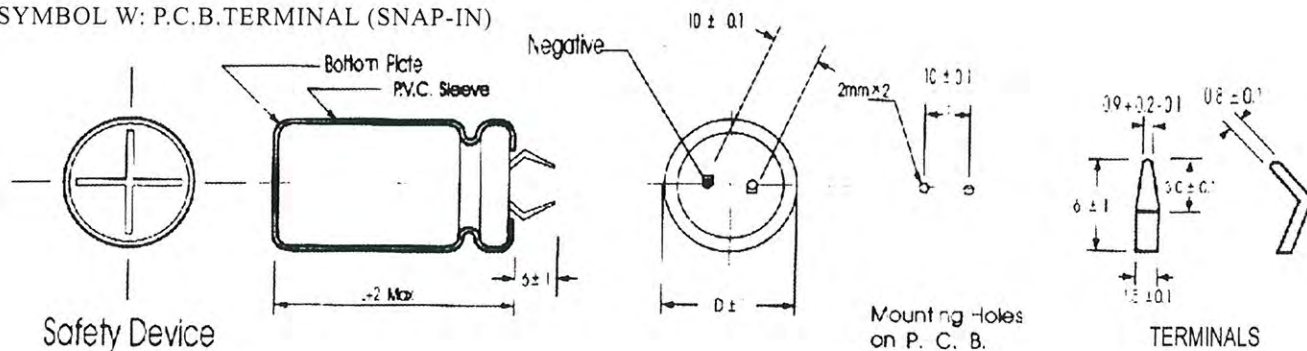
- ◆ Directly mountable on printed circuit board, without holders.
- ◆ Aluminum case designed explosion-proof vent.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E106

Specifications

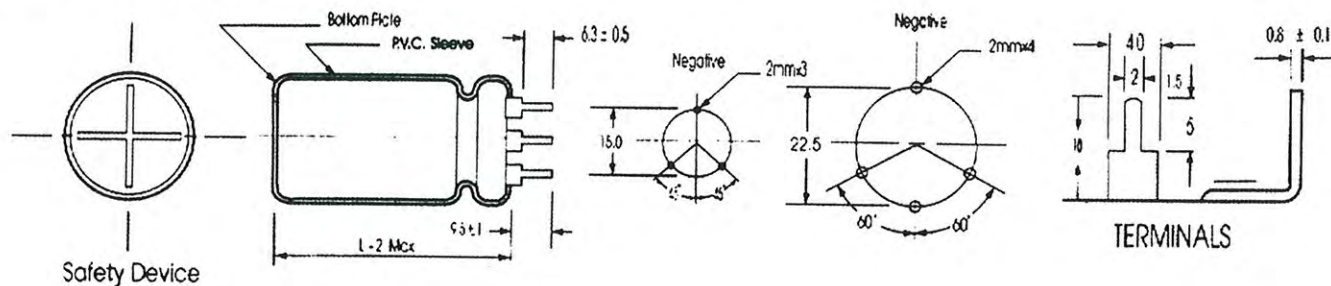
Item	Performance Characteristics						
Operating Temperature Range	-40 ~+85℃				-25 to +85℃		
Rated voltage Range	10~100VDC				160 ~450 VDC		
Capacitance Range	470~ 68000 uF				47 ~ 2700 uF		
Capacitance Tolerance	± 20% (120Hz, +20℃)						
LeaKage Current (+20℃,max.)	I ≤0.03 CV After 5 minutes						
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	—	—	—
	56000~68000	50	45		—	—	—
(± 20℃,at 120Hz,max.)							
Low Temperature Characteristics (120 Hz)	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: ≤ ± 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 : 500 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.						

Diagram of Dimensions:(Unit:mm)

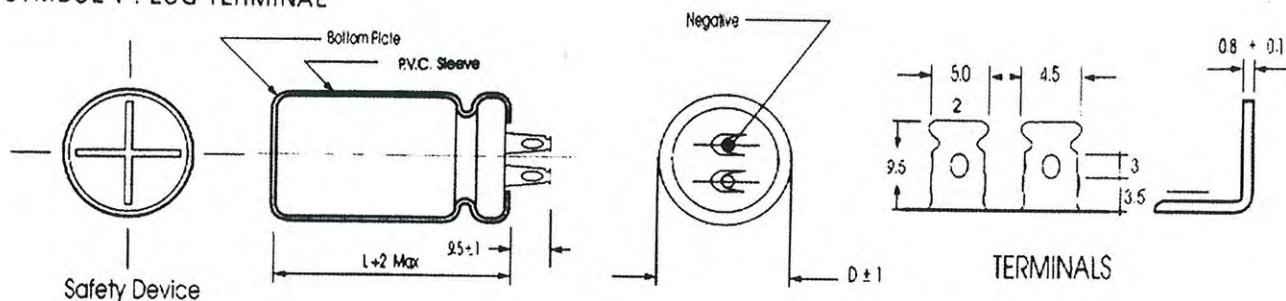
SYMBOL W: P.C.B. TERMINAL (SNAP-IN)



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	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°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			25×26			2.93	4700	22×31
		25×26				25×26			25×26		25×26				
	12000	22×31	3.43		12000	22×31	3.43		8200	22×31	3.05		6800	22×36	3.06
		25×26				25×26				25×26				25×31	
	15000	22×36	3.94		15000	22×36	3.94		10000	22×36	3.43		10000	22×46	3.60
		25×31				25×31				25×31				25×41	
	18000	25×41	4.34		18000	25×41	4.34		12000	22×41	3.84			12000	
		25×31				25×31				25×36			25×46		
	22000	22×46	4.80		22000	22×46	4.80		15000	30×31	4.39		15000	30×36	3.92
		25×36				25×36				22×51				25×51	
		30×31				30×31				25×41				35×32	
	27000	25×46	7.57		27000	25×46	7.57		18000	30×31	4.80		18000	30×41	4.70
		30×36				30×36				25×46				35×32	
33000	25×51	8.20	33000	25×51	8.20	22000	30×36	5.40	22000	30×46	5.45				
	30×41			30×41			25×51			30×51					
	35×32			35×32			30×41			35×42					
39000	30×46	8.33	39000	30×46	8.33	27000	30×46	5.97	27000	35×47	5.78				
	35×37			35×37			35×37			35×52					
47000	30×51	8.96	47000	30×51	8.96	33000	30×51	6.24							
	35×42			35×42			35×42								
56000	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							



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)		
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	1.62		
	3300	22x31	2.64			25x36				25x26							
		25x26			2700	22x36	2.82		1800	22x36	1.82		1200	22x36	1.74		
	4700	25x31	3.12			25x31				25x31				25x31			
		30x26			3900	22x41	3.21		2200	22x41	2.52		1500	22x41	1.85		
		30x31				25x31				25x31				25x36			
	5600	22x51	3.06			30x26				2700				22x46		2.76	1800
		25x41			25x36	25x36	25x41										
		30x31			30x31	30x31	30x31										
	6800	22x51	3.24		4700	22x51	3.28		3300	22x51	3.24		2200	22x51	2.64		
		25x41				25x41				25x41				25x41			
		30x31				35x27				30x31				30x31			
	8200	25x46	3.48		5600	25x46	3.86		3900	25x46	3.40		2700	25x46	3.16		
		30x36				30x36				30x36							
	10000	25x51	3.96			6800			30x36	4.32	4700		25x51	3.60	3300	25x51	3.42
		30x41							25x51				25x51				
		35x32			30x41		30x41		30x46								
	12000	30x46	4.10		8200	35x32	4.44		5600	30x46	3.78		3900	30x46	3.58		
		35x37				35x32				35x37				35x37			
	15000	30x51	4.70			1000			30x46	4.770	6800		30x51	4.60	4700	30x51	3.72
		35x42			35x37		35x42		35x42								
	18000	35x47	5.31			35x42			8200	35x52	4.92		5600	35x47	3.72		
	22000	35x52	5.85			35x52	5.04		10000	35x63	5.04		6800	35x52	4.10		



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)			
160	180	22x21	1.12	200	150	22x21	0.96	250	120	22x21	0.85	350	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				
		30x26				30x26				30x26				30x31				
	680	22x41	2.36		560	22x41	2.57		390	22x41	2.04		470	22x46	2.38		270	25x46
		25x36				25x36				25x36				25x41		30x36		
		30x26				30x26				30x26				30x31		35x27		
	820	22x46	2.72		680	22x46	2.98		470	22x46	2.38		560	25x46	2.81	330	25x51	1.88
		25x41				25x36				25x41				30x36			30x41	
		30x36				30x31				30x31				35x27			35x32	
1000	25x46	3.13	820	25x46	3.26	560	25x46	2.81	680	25x51	3.11	390	25x51	2.12				
	30x36			30x36			30x36			30x41			30x46					
	35x32			35x27			35x27			35x32			35x37					
1200	25x51	3.44	1000	25x51	3.92	680	25x51	3.11	820	25x51	3.55	470	30x46	2.41				
	30x36			30x41			30x41			30x51			35x42					
	35x32			35x32			35x32			35x37			35x47					
1500	30x46	3.96	1200	30x46	4.25	820	30x46	3.55	1000	30x46	4.00	560	35x47	2.90				
	35x37			35x37			35x37			35x52								
1800	30x51	4.47	1500	30x51	4.99	1000	30x51	4.00	1200	30x51	4.55	680	35x52	3.20				
	35x42			35x42			35x42			35x52								
2200	35x47	4.65	1800	35x47	5.84	1200	35x47	4.55	1500	35x47	5.34							
2700	35x52	4.76	2200	35x52	6.07	1500	35x52	5.34	1800	40x52	6.11							



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)
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				100			22x36	1.03	35x42
	100	22x31	1.03		270	30x36	1.96		25x31		40x37				
		25x26				35x32			120	22x41	1.19		35x47	2.89	
	120	22x31	1.07			25x51				2.26			25x36		40x42
		25x26			30x41	150	22x51		1.39		560	40x52	3.26		
	150	22x36	1.26		35x37		180	22x51			1.52				
		25x31			30x46			30x31							
		30x26			35x42	35x47	220	25x51	1.76						
	180	22x41	1.46		40x37	35x37									
		25x36			560	35x52		3.16							
		30x31			680	40x52	3.59								