LARGE CAN TYPE

LS Series

Snap-in Terminal Type, Miniature Sized

JAMICON®

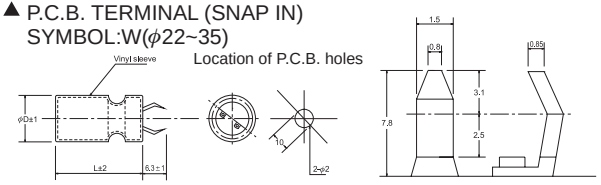
- Smaller case sized than LP series.
- Withstanding 2000 hours application of high ripple current at 85°C.

SPECIFICATION

Item	Characteristic																
Operation Temperature Range	-40 ~ +85°C																
Rated Working Voltage	16 ~ 500VDC																
Capacitance Tolerance (120Hz 20°C)	±20%(M)																
Leakage Current (20°C)	I ≦0.02CV or 3 (mA) *Whichever is smaller after 5 minutes I : Leakage Current(μA) C : Rated Capacitance(μF) V : Working Voltage(V)																
Surge Voltage (20°C)	W.V.	16	25	35	50	63	80	100	160	180	200	250	350	350	400	450	500
	S.V.	20	32	44	63	79	100	125	200	225	250	300	400	400	450	500	550
Dissipation Factor (tan δ) (120Hz 20°C)	Rated Voltage (V)	16		25		35		50		63		80		100		≧160	
	Capacitance	≦47,000	≧56,000	≦33,000	≧47,000	≦22,000	≧33,000	≦6,800	≧10,000	≦6,800	≧10,000	≦2,200	≧3,300	≦3,300	≧4,700	—	
	tan δ	0.50	0.60	0.40	0.50	0.35	0.40	0.30	0.35	0.25	0.35	0.20	0.25	0.20	0.25	0.15	
Low Temperature Stability	Impedance ratio at 120Hz																
	Rated Voltage (V)	16~100						160~250				350~500					
	-25°C / +20°C	4						6				8					
	-40°C / +20°C	15						—				—					
Load Life	After 2000 hours application of W.V. at +85°C the capacitor shall meet the following limits.																
	Capacitance Change	≦±15% of initial value															
	Dissipation Factor	≦175% of initial specified value															
	Leakage current	≦initial specified value															
Shelf Life	At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)																

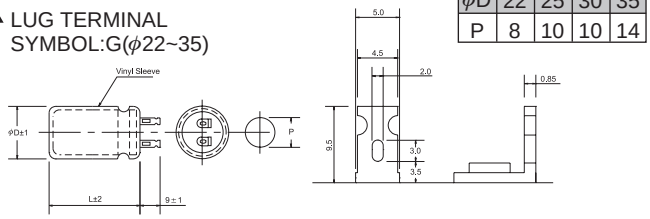
TERMINAL TYPE

▲ P.C.B. TERMINAL (SNAP IN)
SYMBOL:W(φ22~35)



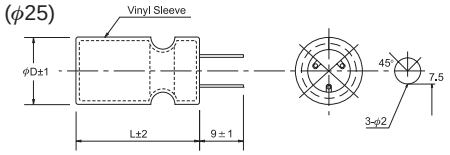
▲ LUG TERMINAL
SYMBOL:G(φ22~35)

φD	22	25	30	35
P	8	10	10	14

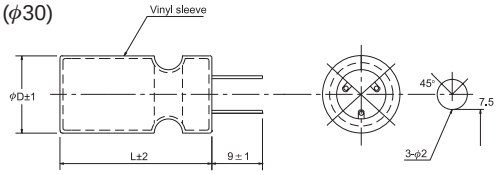


▲ P.C.B. TERMINAL
SYMBOL:V(φ25~35)

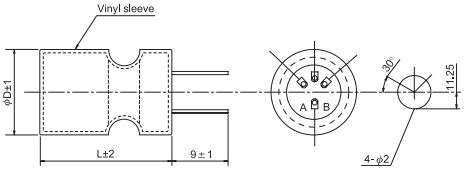
(φ25)

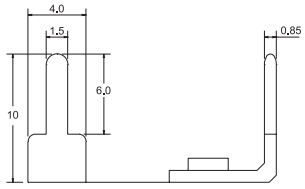


(φ30)



(φ35)
A.B. blank terminals





RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	40	60	70	85
Multiplier	1.80	1.40	1.20	1.00

Frequency(Hz)	60	120	400	1k	10k
W.V.	Multiplier				
≦100V	0.80	1.00	1.10	1.20	1.20
≧160V	0.80	1.00	1.10	1.30	1.40

※ For φ45 dimension, refer to page 14.

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : A (rms)
(R.C.) : 85°C 120Hz

µF	Code	V(Code) / φD	16 (1C)					25 (1E)					35 (1V)				
			22	25	30	35	45	22	25	30	35	45	22	25	30	35	45
3300	332												25				
													2.04				
4700	472							25					30	25			
								2.25					2.41	2.23			
6800	682		25					30	25				35	30	25		
			2.40					2.69	2.56				2.82	2.70	2.66		
10000	103		30	25				35	30	25			45	35	30	25	
			2.81	2.67				3.09	2.97	2.92			3.34	3.06	3.04	3.28	
15000	153		40	30	25			45	35	30	25			50	35	30	
			3.43	3.11	3.07			3.70	3.39	3.37	3.63			4.06	3.67	3.98	
22000	223			45	30	25			45	35	30				45	40	
				4.25	3.78	4.09			4.48	4.25	4.61				4.94	5.41	
33000	333				45	35				50	40					50	
					5.48	5.67				6.05	6.33					7.27	
56000	563																55
																	10.27
68000	683											55					60
												11.47					11.73
82000	823						50					60					
							10.83					13.06					
100000	104						60										L(mm)
							12.90										R.C.

µF	Code	V(Code) / φD	50 (1H)					63 (1J)					80 (1K)					100 (2A)				
			22	25	30	35	45	22	25	30	35	45	22	25	30	35	45	22	25	30	35	45
1000	102												25					30	25			
													1.50					1.71	1.63			
1200	122																	35	30			
																		2.01	1.93			
1500	152							25					30	25				35	30	25		
								1.66					1.88	1.79				2.11	2.03	2.00		
1800	182																	45	35	30		
																		2.59	2.37	2.35		
2200	222		25					30	25				40	30	25			50	40	30	25	
			1.92					2.08	1.98				2.45	2.22	2.19			2.84	2.64	2.47	2.66	
3300	332		30	25				35	30	25			50	40	30	25			50	40	30	
			2.35	2.24				2.51	2.41	2.38			3.05	2.83	2.65	2.86			3.25	3.11	3.19	
4700	472		35	30	25			45	35	30	25			50	40	30				50	40	
			2.72	2.62	2.58			3.04	2.79	2.77	2.99			3.36	3.21	3.30				3.65	3.82	
6800	682		50	40	30	25			50	35	30				50	40					50	
			3.45	3.20	3.00	3.23			3.53	3.19	3.46				3.80	3.98					4.48	
10000	103			50	35	30				45	40											
				3.70	3.35	3.64				3.72	4.08											
12000	123																					60
																						5.83
15000	153				50	40					50						55					70
					4.61	4.83					5.30						6.29					6.96
18000	183					45																
						5.55																
22000	223					50						55					65					
						6.42						6.95					8.17					
27000	273											65										
												8.26										
33000	333						55															
							8.51															
39000	393						65															L(mm)
							9.26															R.C.

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : A (rms)
(R.C.) : 85°C 120Hz

μF	Code	V(Code) / φD	160 (2C)					180 (2M)					200 (2D)					250 (2E)				
			22	25	30	35	45	22	25	30	35	45	22	25	30	35	45	22	25	30	35	45
220	221												25					25				
													1.25					1.31				
270	271												25					30	25			
													1.67					1.57	1.57			
330	331							25					30	25				35	30			
								1.31					1.66	1.66				1.85	1.87			
390	391		25					30	25				30	25				35	30	25		
			1.44					1.54	1.54				1.80	1.80				2.01	2.03	2.10		
470	471		30	25				30	25				35	30	25			40	35	25	25	
			1.70	1.70				1.69	1.69				2.11	2.13	2.21			2.34	2.38	2.31	2.54	
560	561		35	30				35	30	25			40	35	25			50	40	30	25	
			1.99	2.23				1.97	1.99	2.06			2.44	2.48	2.41			2.82	2.74	2.71	2.78	
680	681		40	30	25			40	35	25			45	35	30	25			45	35	30	
			2.32	2.21	2.29			2.30	2.34	2.27			2.83	2.73	2.85	2.92			3.19	3.18	3.28	
820	821		45	35	30			45	40	30	25			40	30	25			50	40	30	
			2.68	2.58	2.70			2.67	2.72	2.68	2.75			3.17	3.13	3.21			3.67	3.69	3.60	
1000	102		50	40	30	25			45	35	25			50	35	30				45	35	
			3.11	3.02	2.98	3.05			3.16	3.15	3.04			3.87	3.68	3.80				4.28	4.22	
1200	122			45	35	30			50	40	30				40	35				50	40	
				3.49	3.48	3.59			3.63	3.65	3.56				4.26	4.42				4.91	4.88	
1500	152				40	35				45	35					40					50	
					4.11	4.26				4.15	4.09					5.02					5.74	
1800	182				45	35					40					50						
					4.73	4.67					4.73					6.04						
2200	222																					50
																						5.81
2700	272																50					60
																	6.44					6.94
3300	332											50					60					
												6.44					7.68					
3900	392						50					60										
							7.00					7.55										
4700	472						60															L(mm)
							8.29															R.C.

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : A (rms)
(R.C.) : 85°C 120Hz

μF	Code	V(Code) / φD	350 (2V)					400 (2G)					450 (2W)					500 (2H)				
			22	25	30	35	45	22	25	30	35	45	22	25	30	35	45	22	25	30	35	45
82	820							25					30	25				35	30	25		
								0.76					0.83	0.83				0.73	0.74	0.76		
100	101		25					30	25				35	30	25			40	30	25		
			0.73					0.91	0.91				0.97	0.98	1.02			0.85	0.81	0.84		
120	121		30	25				30	25				40	30	25			45	35	30		
			0.86	0.86				1.00	1.00				1.13	1.08	1.12			0.99	0.95	0.99		
150	151		30	25				35	30	25			45	35	30			50	40	35	30	
			0.96	0.96				1.19	1.20	1.25			1.33	1.28	1.34			1.15	1.12	1.18	1.22	
180	181		35	30	25			40	35	25			50	40	30	25			45	40	30	
			1.13	1.14	1.18			1.38	1.40	1.37			1.53	1.49	1.47	1.50			1.30	1.37	1.33	
220	221		40	35	25			50	40	30	25			45	35	30			50	45	35	
			1.32	1.34	1.30			1.69	1.64	1.62	1.66			1.73	1.72	1.78			1.50	1.59	1.57	
270	271		50	40	30	25			45	35	30				40	35				50	45	
			1.61	1.57	1.55	1.59			1.92	1.91	1.97				2.02	2.10				1.84	1.92	
330	331			45	35	30			50	40	30				45	35					45	
				1.82	1.82	1.88			2.22	2.23	2.18				2.35	2.32					2.13	
390	391			50	40	30				45	35					40					50	
				2.08	2.10	2.04				2.55	2.52					2.66					2.42	
470	471				40	35					40					45						
					2.30	2.38					2.92					3.07						
560	561				50	40					45											
					2.76	2.75					3.34											
680	681					45					50						50					
						3.18					3.85						3.70					
820	821											50					55					
												4.06					4.22					
1000	102						50					55										
							4.14					4.66										
1500	152						60															L(mm)
							4.43															R.C.