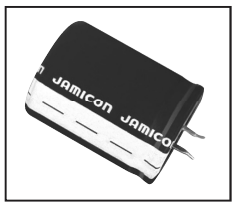
HL Series

Snap-in Terminal Type,
Wide Temperature Range

JAMICON

- Withstanding 5000 hours application of high ripple current at 105°C.
- Corresponding product to RoHS

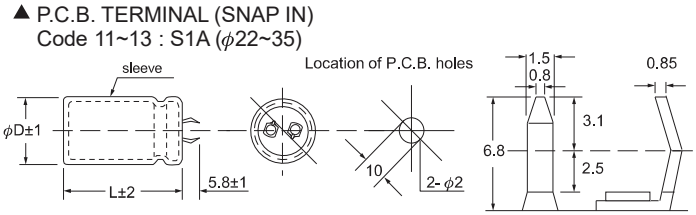


SPECIFICATION

Item	Characteristic				
Operation Temperature Range	-40 ~ +105°C				
Rated Working Voltage	200 ~ 450VDC				
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.	200	250	400	450
	S.V.	250	300	450	500
Dissipation Factor (tan δ) (120Hz 20°C)	Rated Voltage (V)	200	250	400	450
	tan δ	0.15	0.15	0.15	0.15
Low Temperature Stability	Impedance ratio at 120Hz				
	Rated Voltage (V)	200~250		400~450	
	-25°C / +20°C	4		6	
Load Life	After 5000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≦ rate working voltage)				
	Capacitance Change	≦±20% of initial value			
	Dissipation Factor	≦175% of initial specified value			
	Leakage current	≦initial specified value			
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)				

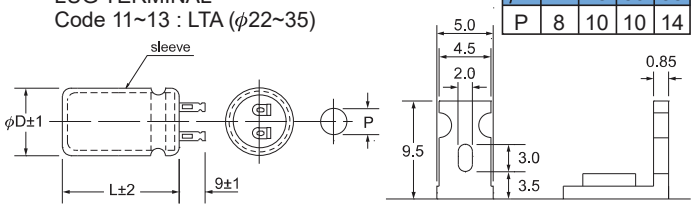
TERMINAL TYPE

▲ P.C.B. TERMINAL (SNAP IN)
Code 11~13 : S1A (φ22~35)



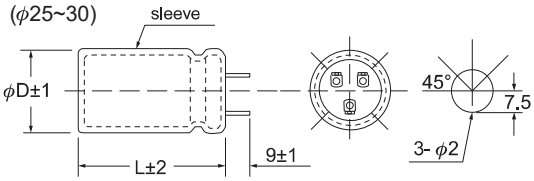
▲ LUG TERMINAL
Code 11~13 : LTA (φ22~35)

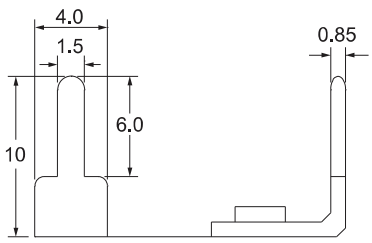
φD	22	25	30	35
P	8	10	10	14



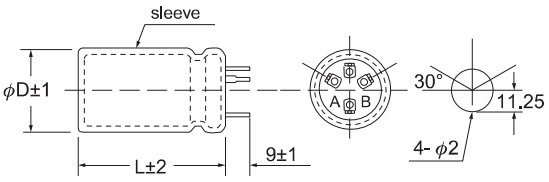
▲ P.C.B. TERMINAL
Code 11~13 : LBA (φ25~30), LCA (φ35)

(φ25~30)





(φ35)
A.B. blank terminals



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	40	60	70	85	105
Multiplier	2.50	2.20	2.00	1.80	1.00

Frequency(Hz)	60	120	400	1k	10k
W.V.	Multiplier				
≧200V	0.80	1.00	1.10	1.30	1.40

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : A(rms) 105°C 120Hz

V(DC) / μF \ φD	200								250							
	22		25		30		35		22		25		30		35	
150										25						
										0.69						
180									25	30		25				
									0.76	0.82		0.82				
220		25							30	35		30				
		0.85							0.91	0.97		0.98				
270		30		25					30	35	25	30				
		1.02		1.02					1.01	1.07	1.01	1.08				
330	30	35	25	30					35	40	30	35		25		
	1.12	1.20	1.12	1.21					1.19	1.26	1.20	1.28		1.24		
390	35	35	30	35		25			40	45	35	40	30	35		
	1.31	1.31	1.32	1.40		1.37			1.37	1.44	1.39	1.47	1.45	1.54		
470	40	45	30	35	25	30			50		40	45	30	35		25
	1.52	1.60	1.45	1.54	1.50	1.61			1.66		1.61	1.70	1.59	1.69		1.63
560	45	50	35	40	30	35					45		35	40		30
	1.75	1.83	1.68	1.78	1.76	1.87					1.85		1.85	1.95		1.91
680			40	50	30	35		25			50		40	45		30
			1.96	2.16	1.94	2.06		1.98			1.94		2.15	2.26		2.10
820			45		35	40		30					45	50		35
			2.27		2.26	2.39		2.33					2.49	2.60		2.45
1000					40	45	35	35					55			40
					2.64	2.78	2.74	2.74					3.00			2.86
1200					45	50	40	45							50	55
					3.04	3.19	3.17	3.33							3.44	3.58
1500							45	50							55	
							3.72	3.75							4.00	
1800								50								L(mm)
								4.10								R.C.

V(DC) / μF \ φD	400								450							
	22		25		30		35		22		25		30		35	
47										25						
										0.39						
56									25	30						
									0.42	0.46						
68		25							30	35	25					
		0.47							0.50	0.54	0.50					
82	25	30							30	35	25	30				
	0.52	0.56							0.55	0.59	0.55	0.60				
100	30	35	25	30					35	40	30	35		25		
	0.62	0.66	0.62	0.66					0.65	0.69	0.66	0.70		0.68		
120	35	40	30	35		25			40	50	35	40	25	30		25
	0.72	0.76	0.73	0.77		0.75			0.76	0.84	0.77	0.81	0.75	0.80		0.82
150	40	45	30	40	25	30			50		40	45	30	35		30
	0.85	0.90	0.81	0.92	0.84	0.90			0.94		0.91	0.96	0.90	0.96		0.99
180	45	50	35	40	30	35		25			45		35	40		30
	0.98	1.03	0.95	1.06	0.99	1.06		1.01			1.05		1.05	1.11		1.08
220	50		40	50	30	35		30					40	45	30	35
	1.14		1.11	1.22	1.09	1.16		1.20					1.22	1.29	1.19	1.27
270			45		35	45	30	35					45	50	35	40
			1.29		1.29	1.43	1.33	1.41					1.43	1.49	1.41	1.48
330					40	50	35	40					50		40	45
					1.51	1.66	1.56	1.65					1.65		1.64	1.72
390					45		35	45							45	
					1.72		1.70	1.88							1.87	
470							40	50								
							1.97	2.16								
560							45									L(mm)
							2.26									R.C.