

- Withstanding 2000 hours application of high ripple current at 105°C.
- Corresponding product to RoHS

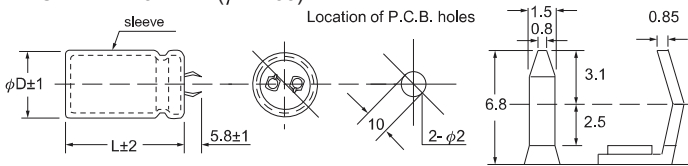


● SPECIFICATION

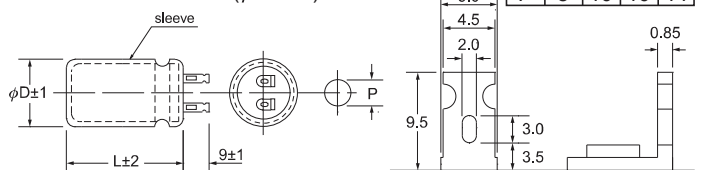
Item	Characteristic															
Operation Temperature Range	-40 ~ +105°C															
Rated Working Voltage	16 ~ 500VDC															
Capacitance Tolerance (120Hz 20°C)	±20%(M)															
Leakage Current (20°C)	I ≤ 0.02CV or 3 (mA) *Whichever is smaller after 5 minutes I : Leakage Current (μA) 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	400	450	500
	S.V.	20	32	44	63	79	100	125	200	225	250	300	400	450	500	550
Dissipation Factor (tan δ) (120Hz 20°C)	Rated Voltage (V)	16	25	35	50	63	80	100	160	180	200	250	350	400	450	500
	Capacitance	≤33,000	≥47,000	≤33,000	≥47,000	≤22,000	≥27,000	≤6,800	≥10,000	≤6,800	≥10,000	≤3,300	≥4,700	≤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	25	35	50	63~100	160~250	350~500								
	-25°C / +20°C	6	6	6	4	3	4	6								
	-40°C / +20°C	15	15	10	8	6	—	—								
Load Life	After 2000 hours application of W.V. at +105°C the capacitor shall meet the following limits.															
	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

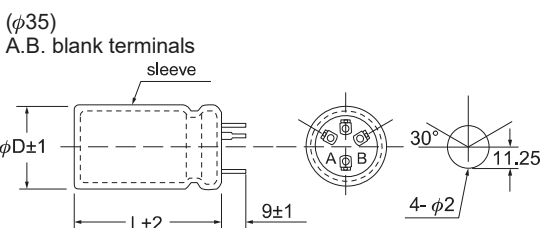
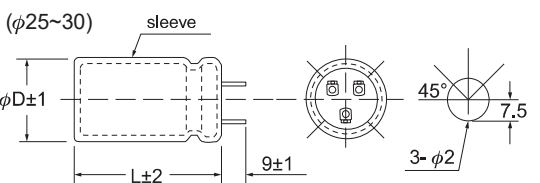
▲ P.C.B. TERMINAL (SNAP IN) Code 11~13 : S1A (φ22~35)



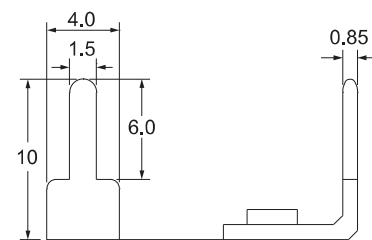
▲ LUG TERMINAL Code 11~13 : LTA (φ22~35)



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



※ For φ45 dimension, refer to page 16.



● 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				
≤100V	0.80	1.00	1.10	1.20	1.20
≥160V	0.80	1.00	1.10	1.30	1.40

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

● CASE SIZE & MAX RIPPLE CURRENT

μF	V(DC) φD	180					200					250				
		22	25	30	35	45	22	25	30	35	45	22	25	30	35	45
220							25					30	25			
							0.85					0.91	0.91			
270	25						25					35	25			
	0.80						0.94					1.07	1.01			
330	30	25					30	25				35	30	25		
	0.95	0.95					1.12	1.12				1.19	1.20	1.24		
390	30	25					35	25				40	35	25		
	1.03	1.04					1.31	1.22				1.37	1.39	1.35		
470	35	30	25				40	30	25			50	40	30	25	
	1.21	1.22	1.27				1.52	1.45	1.50			1.66	1.61	1.59	1.63	
560	40	30	25				45	35	30			45	35	25		
	1.40	1.34	1.39				1.75	1.68	1.76			1.85	1.85	1.78		
680	45	35	30	25			50	40	30	25		50	35	30		
	1.63	1.57	1.64	1.68			2.02	1.96	1.94	1.98		2.14	2.04	2.10		
820	50	40	30	25			45	35	30			45	35			
	1.88	1.83	1.80	1.85			2.27	2.26	2.33			2.49	2.45			
1000		45	35	30			50	40	30							40
		2.12	2.12	2.18			2.63	2.64	2.58							2.86
1200			40	30				45	35							45
			2.45	2.39				3.04	3.00							3.29
1500			50	35					45							50
			2.91	2.74					3.58							3.68
1800				40					50							
				3.17					4.10							
2200																55
																4.29
2700										50						65
										4.43						5.10
3300					55					60						
					4.70					5.28						
3900					65											L(mm)
					5.48											R.C.

LARGE CAN TYPE

● CASE SIZE & MAX RIPPLE CURRENT

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

μF	V(DC)		350					400					450					500					
	φ	D	22	25	30	35	45	22	25	30	35	45	22	25	30	35	45	22	25	30	35	45	
47													25					25					
													0.39					0.27					
68							25						30	25				30	25				
							0.47						0.50	0.50				0.35	0.35				
82			25				30	25					35	30				35	30				
			0.43				0.56	0.56					0.59	0.60				0.41	0.41				
100			30	25			30	25					40	35	25			40	35	30			
			0.51	0.51			0.61	0.61					0.69	0.70	0.68			0.47	0.48	0.50			
120			30	25			35	30	25				45	35	30	25		50	40	35	25		
			0.55	0.55			0.72	0.73	0.75				0.80	0.77	0.80	0.82		0.57	0.56	0.59	0.56		
150			35	30	25		40	35	30				45	35	30			45	40	30			
			0.66	0.67	0.69		0.85	0.86	0.90				0.96	0.96	0.99			0.66	0.69	0.68			
180			40	35	30		45	40	30	25			50	35	30			50	40	35			
			0.77	0.78	0.82		0.98	1.00	0.99	1.01			1.10	1.05	1.08			0.75	0.76	0.79			
220			50	40	30	25		45	35	30				40	35				45	40			
			0.94	0.91	0.90	0.92		1.17	1.16	1.20				1.22	1.27				0.88	0.92			
270				45	35	30		50	40	30				50	40				50	45			
				1.07	1.06	1.10		1.35	1.36	1.33				1.49	1.48				1.02	1.07			
330				50	40	30			45	35					45					50			
				1.23	1.24	1.21			1.58	1.56					1.72					1.23			
390					45	35				40					50								
					1.42	1.40				1.79					1.96								
470						40				45													
						1.62				2.07													
560										50													
										2.36													
680																		55					
																		2.49					
820											50							65					
											2.72							2.93					
1000						55					60												
						2.59					3.24												
2200						65																	L(mm)
						4.12																	R.C.

LARGE CAN TYPE