

- Small case sized than HS series.
- Withstanding 2000 hours application of high ripple current at 105°C.
- Corresponding product to RoHS

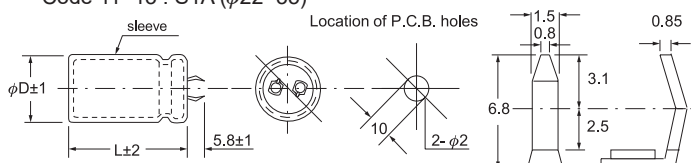


SPECIFICATION

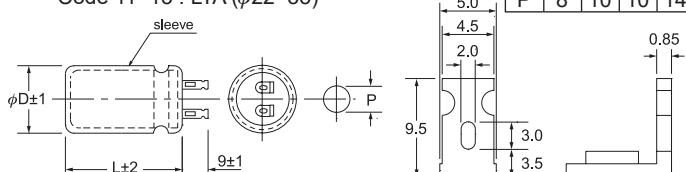
Item	Characteristic						
Operation Temperature Range	-25 ~ +105°C						
Rated Working Voltage	160 ~ 450VDC						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	I ≤0.02CV or 3 (mA) *Whichever is smaller after 5 minutes I : Leakage Current(μA) C : Rated Capacitance(μF) V : Working Voltage(V)						
Surge Voltage (20°C)	W.V.	160	200	250	350	400	450
	S.V.	200	250	300	400	450	500
Dissipation Factor (tan δ) (120Hz 20°C)	Rated Voltage (V)	160	200	250	350	400	450
	tan δ	0.15	0.15	0.15	0.15	0.15	0.15
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	160~250			350~450		
	-25°C / +20°C	4			6		
Load Life	After 2000 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

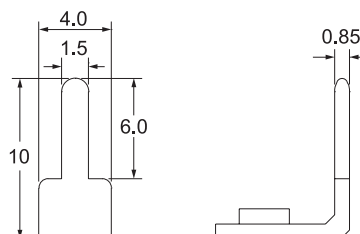
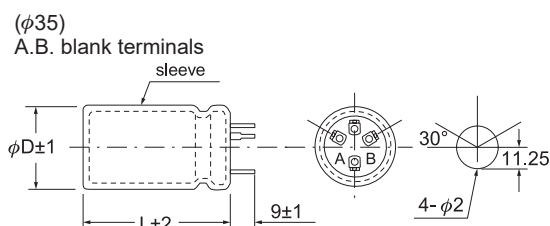
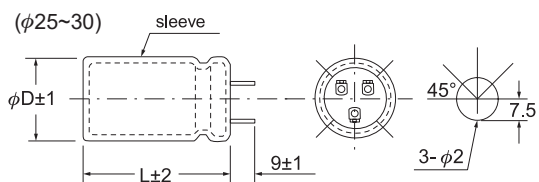
▲ P.C.B. TERMINAL (SNAP IN) Code 11~13 : S1A (φ22~35)



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



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



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				
≥160V	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

μF	$V(\text{DC})$ ϕD	160				200				250			
		22	25	30	35	22	25	30	35	22	25	30	35
220										25			
										0.89			
270										25			
										0.94			
330										30	25		
										1.12	1.12		
390						25				35	25		
						1.29				1.30	1.21		
470	25					30				40	30	25	
	1.44					1.44				1.42	1.36	1.41	
560	30					30	25			45	35	25	
	1.48					1.48	1.48			1.54	1.49	1.44	
680	30	25				40	30			50	40	30	25
	1.63	1.63				1.84	1.75			1.78	1.73	1.71	1.75
820	35	30	25			45	35	25			45	35	30
	1.84	1.85	1.92			2.05	1.98	1.92			1.93	1.92	1.98
1000	40	35	25			50	45	30	25			40	30
	2.10	2.13	2.07			2.31	2.37	2.22	2.28			2.19	2.13
1200		40	30	25			50	35	30			45	35
		2.30	2.27	2.33			2.54	2.42	2.49			2.35	2.32
1500		45	35	30				40	30				45
		2.42	2.41	2.49				2.55	2.49				2.56
1800		50	40	30				45	40				50
		2.56	2.58	2.52				2.71	2.82				2.71
2200			45	35					45				
			2.89	2.85					3.16				
2700			50	40									
			3.13	3.11									
3300				50									L(mm)
				3.77									R.C.

μF	$V(\text{DC})$ ϕD	350				400				450			
		22	25	30	35	22	25	30	35	22	25	30	35
68										25			
										0.47			
82										30			
										0.55			
100						25				30	25		
						0.61				0.61	0.61		
120	25					30				35	30		
	0.58					0.72				0.71	0.72		
150	30					30	25			40	30	25	
	0.71					0.80	0.80			0.85	0.81	0.84	
180	30	25				35	30			45	40	30	
	0.73	0.73				0.89	0.90			0.93	0.95	0.93	
220	35	30				45	35	25			45	30	25
	0.87	0.87				1.10	1.06	1.03			1.10	1.03	1.06
270	40	30	25			50	40	30	25		50	40	30
	0.96	0.92	0.95			1.21	1.18	1.16	1.19		1.21	1.22	1.19
330	45	40	30				45	35	30			45	35
	1.12	1.15	1.13				1.37	1.37	1.41			1.42	1.40
390		45	35				50	40	30			50	40
		1.31	1.31				1.56	1.58	1.54			1.61	1.60
470		50	35	30				45	35				45
		1.42	1.36	1.40				1.72	1.69				1.75
560			45	35				50	40				50
			1.55	1.53				1.85	1.84				1.88
680			50	40					45				
			1.79	1.78					2.12				
820				45									L(mm)
				1.97									R.C.