

LARGE CAN TYPE

HL Series

Snap-in Terminal Type,
Wide Temperature Range

JAMICON®

- Withstanding 5000 hours application of high ripple current at 105°C.

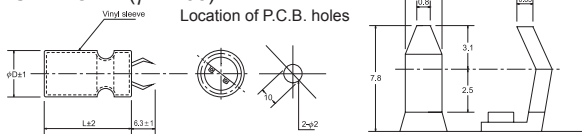


SPECIFICATION

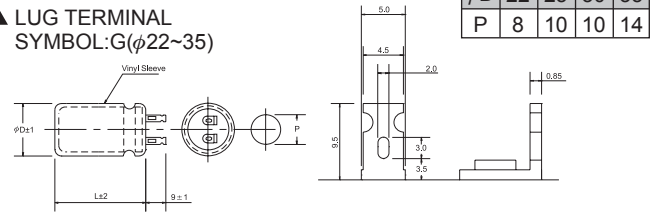
Item	Characteristic				
Operation Temperature Range	-40 ~ +105°C				
Rated Working Voltage	200 ~ 450VDC				
Capacitance Tolerance (120Hz 20°C)	±20%(M)				
Leakage Current (20°C)	$I \leq 0.02CV$ or 3 (mA) *Whichever is smaller after 5 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)				
Surge Voltage (20°C)	W.V.	200	250	400	450
	S.V.	250	300	450	500
Dissipation Factor ($\tan \delta$) (120Hz 20°C)	Rated Voltage (V)	200	250	400	450
	$\tan \delta$	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 \leq rate working voltage)				
	Capacitance Change	$\leq \pm 20\%$ of initial value			
	Dissipation Factor	$\leq 175\%$ of initial specified value			
	Leakage current	\leq 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

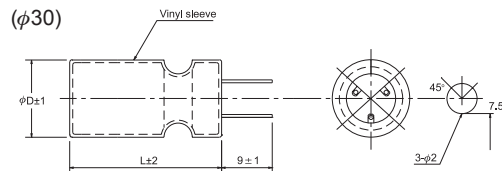
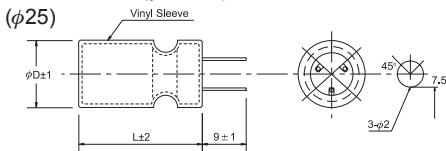
▲ P.C.B. TERMINAL (SNAP IN)
SYMBOL: W($\phi 22 \sim 35$)



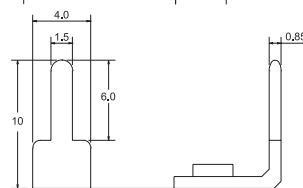
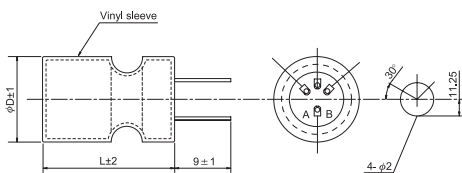
▲ LUG TERMINAL
SYMBOL: G($\phi 22 \sim 35$)



▲ P.C.B. TERMINAL
SYMBOL: V($\phi 25 \sim 35$)



($\phi 35$)
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				
$\geq 200\text{V}$	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(Code) Code	φD	200 (2D)				250 (2E)									
			22	25	30	35	22	25	30	35						
150	151							25								
								0.69								
180	181							25	30		25					
								0.76	0.82		0.82					
220	221		25					30	35		30					
			0.85					0.91	0.97		0.98					
270	271		30		25			30	35	25	30					
			1.02		1.02			1.01	1.07	1.01	1.08					
330	331		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	391		35	35	30	35		25								
			1.31	1.31	1.32	1.40		1.37	1.44	1.39	1.47	1.45	1.54			
470	471		40	45	30	35	25	30		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	561		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	681				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	821				45		35	40		30				45	50	35
					2.27		2.26	2.39		2.33				2.49	2.60	2.45
1000	102						40	45	35	35				55		40
							2.64	2.78	2.74	2.74				3.00		2.86
1200	122						45	50	40	45					50	55
							3.04	3.19	3.17	3.33					3.44	3.58
1500	152								45	50					55	
									3.72	3.75					4.00	
1800	182									50						L(mm)
									4.10							R.C.

μF	V(Code) Code	φD	400 (2G)				450 (2W)									
			22	25	30	35	22	25	30	35						
47	470								25							
									0.39							
56	560								25	30						
									0.42	0.46						
68	680		25						30	35	25					
			0.47						0.50	0.54	0.50					
82	820		25	30					30	35	25	30				
			0.52	0.56					0.55	0.59	0.55	0.60				
100	101		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	121		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	151		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	181		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	221		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	271				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	331						40	50	35	40			50		40	45
							1.51	1.66	1.56	1.65			1.65		1.64	1.72
390	391						45		35	45					45	
							1.72		1.70	1.88					1.87	
470	471								40	50						
									1.97	2.16						
560	561								45							L(mm)
									2.26							R.C.