

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

## I14090 (LB)

High Temperature Range, For 125°C Use Serie

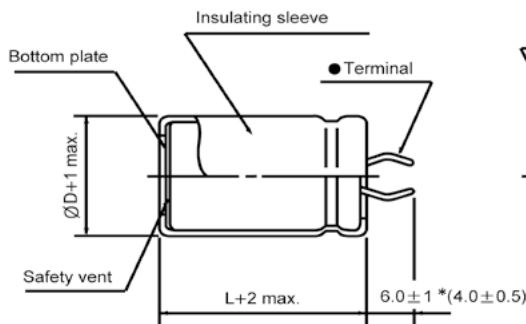
- Wide operating temperature range of -40 ~ +125°C
- With a guaranteed useful life of 10 years at 60°C
- Ideal for industrial applications requiring continuous operation
- Complied to the RoHS directive.

Items	Performance characteristics									
Operating temperature range	-40 ~ +125°C									
Leakage current max.	$I=3\sqrt{CV}$ (μA) (after 5 minutes)									
Capacitance tolerance	±20% at 120Hz, 20°C									
Dissipation factor max. (at 120Hz, 20°C)	WV	10	16	25	35	50	63	80,100	160~250	
	Tanδ	0.55	0.50	0.40	0.35	0.30	0.25	0.20	0.15	
Load life (after application of the rated voltage for 1000 hours at 125°C)	Leakage current					Less than specified value				
	Capacitance change					Within ±20% of initial value				
	Tanδ					Less than 200% of specified value				
Shelf life (at 125°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.									

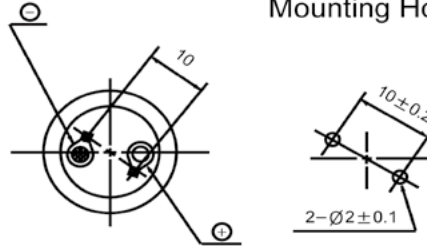
### ● DRAWING

Unit : mm

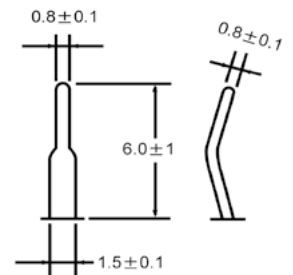
∅D ≤ 40



PC Board Mounting Holes

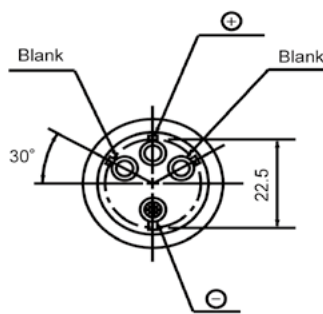
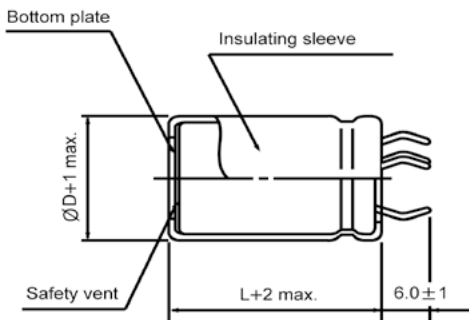


Terminal

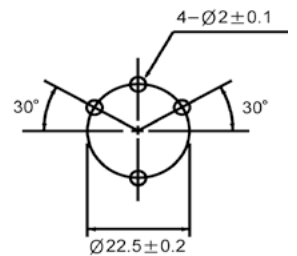


\* Shorter terminal(4.0 ± 0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

∅D = 35, 40



PC Board Mounting Holes



### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ≤
~ 100		0.85	1.00	1.06	1.15	1.20
160 ~		0.85	1.00	1.20	1.25	1.45

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

## I14090 (LB) Series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	10		16		25		35		50		63	
470											22×35 25×30	0.69 0.71
680									22×30	0.78	22×40 25×35 30×30	0.87 0.91 0.93
1000							22×30	0.85	22×40 25×30	1.06 1.04	25×45 30×35 35×30	1.21 1.19 1.22
1500					22×30	0.95	22×40 25×30	1.16 1.14	22×50 25×40 30×30	1.42 1.42 1.39	30×45 35×40	1.60 1.65
2200			22×30	1.00	22×40 25×30	1.28 1.26	22×50 25×40 30×30	1.54 1.54 1.50	30×40 35×35	1.86 1.91	35×50	2.16
3300	22×30	1.09	22×40 25×35	1.36 1.41	22×50 25×40 30×30	1.72 1.72 1.68	30×40 35×35	2.04 2.09	35×40	2.45		
4700	22×40 25×35	1.45 1.51	22×50 25×40 30×30	1.78 1.77 1.74	25×50 30×40 35×30	2.23 2.22 2.17	35×40	2.61				
6800	22×50 25×40 30×35	1.91 1.91 1.97	30×40 35×30	2.31 2.26	30×50 35×40	2.90 2.87						
10000	30×45 35×35	2.62 2.57	35×45	3.14								
15000	35×45	3.44										

WV μF	80		100		160		200		250		
100									22×30	0.32	
150					22×30	0.37	22×35	0.42	22×40 25×30	0.44 0.43	
220			22×30	0.48	22×40 25×30	0.50 0.49	22×45 25×40 30×30	0.56 0.58 0.57	22×50 25×40 30×35 35×30	0.58 0.58 0.60 0.61	
330	22×30	0.59	22×40 25×30	0.66 0.65	22×50 25×40 30×30	0.67 0.67 0.65	25×50 30×40 35×30	0.77 0.77 0.75	30×45 35×35	0.80 0.79	
470	22×40 25×35	0.79 0.82	22×50 25×40 30×35	0.86 0.86 0.89	25×50 30×40 35×30	0.87 0.86 0.84	30×50 35×40	0.99 0.98	35×45	1.03	
680	25×40 30×35	1.04 1.07	30×40 35×30	1.12 1.09	30×50 35×40	1.12 1.11	35×50	1.28			
1000	30×45 35×35	1.42 1.40	35×40	1.46	35×50	1.46	↑ Case size ΦD×L (mm)				
1500	35×45	1.86					↑ Ripple current (A rms) at 125°C , 120Hz				