

LARGE ALUMINUM ELECTROLYTIC CAPACITORS

LM Lug Terminal Type Series

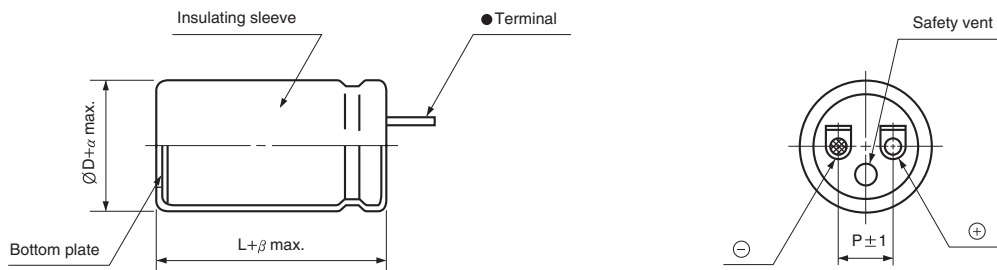
- Lug terminal series
- Suited for use in power supplies and industrial controls
- Complied to the RoHS directive



Item	Characteristics					
Operating temperature range	WV < 350 : -40 ~ +85°C, WV ≥ 350 : -25 ~ +85°C					
Capacitance tolerance	±20% at 120Hz, 20°C					
Leakage current max.	$I = 3 \sqrt{CV}$ (µA) (after 5 minutes)					
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000µF : tanδ increases by 0.01 for each 1000µF from below value.					
	WV	16	25	35-63	80-350	400-450
	tanδ	0.35	0.30	0.25	0.20	0.25
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value				
	Capacitance change	Within ±20% of initial value				
	tanδ	Less than 200% of specified value				
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4					

● DRAWING

Unit : mm



● TERMINAL

For solder tag

ØD	≦ 35	40	51
Dimensions			
Code	LC	LA	LD

ØD	25.4	30	35	40	51
P	10	10	14	18	18
α	1				2
β	2				3

● 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 ~ 250	0.85	1.00	1.20	1.25	1.45
315 ~	0.85	1.00	1.15	1.20	1.40

LM series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown WV	16		25		35		40		50	
3300							25.4×30	2.46	25.4×30	2.46
4700					25.4×30	2.89	25.4×40	3.21	25.4×40	3.21
6800			25.4×30	3.12	25.4×40	3.73	25.4×50	4.07	25.4×50	4.07
10000	25.4×30	3.42	25.4×40	4.03	25.4×50	4.71	25.4×60	5.07	30×50	5.08
15000	25.4×40	4.41	25.4×50	5.07	30×50	5.81	30×60	6.24	35×60	6.67
22000	25.4×50	5.44	30×50	6.15	35×60	7.44	35×60	7.44	35×80	8.34
33000	30×50	6.57	35×60	7.85	35×80	9.18	35×80	9.18	40×100	10.6
47000	35×60	8.19	35×80	9.49	40×100	11.3	51×105	12.5	51×105	12.5
68000	35×80	9.85	40×100	11.6	51×105	13.2				
100000	40×100	12.0	51×105	13.5						
150000	51×105	13.9								

μF \diagdown WV	63		80		100		160		200	
330							25.4×30	0.92	25.4×30	0.92
470							25.4×40	1.22	25.4×40	1.22
680							25.4×50	1.60	25.4×50	1.60
1000					25.4×30	1.60	25.4×60	2.09	30×50	2.09
1500			25.4×30	1.92	25.4×40	2.13	30×60	2.69	35×60	2.87
2200	25.4×30	2.05	25.4×40	2.52	25.4×50	2.75	35×60	3.40	35×80	3.81
3300	25.4×40	2.73	25.4×50	3.29	30×50	3.55	35×100	5.02	40×100	5.27
4700	25.4×50	3.50	25.4×60	4.14	35×60	4.76	40×100	6.15	51×105	6.80
6800	25.4×60	4.38	30×60	5.15	35×80	6.17	51×105	7.86		
10000	30×60	5.46	35×80	7.08	40×100	8.16				
15000	35×80	7.48	40×80	8.43	51×105	10.2				
22000	35×100	9.16	51×105	11.3						
33000	51×105	11.7								

μF \diagdown WV	250		315		350		400		450	
68									25.4×30	0.37
100					25.4×30	0.51	25.4×30	0.45	25.4×40	0.50
150			25.4×30	0.62	25.4×40	0.69	25.4×40	0.62	25.4×50	0.67
220	25.4×30	0.75	25.4×40	0.84	25.4×50	0.91	25.4×50	0.81	30×50	0.88
330	25.4×40	1.02	25.4×50	1.12	25.4×60	1.20	30×60	1.16	35×60	1.24
470	25.4×50	1.33	25.4×60	1.43	30×60	1.54	35×60	1.47	35×80	1.65
680	30×50	1.73	30×60	1.86	35×60	1.98	35×80	1.99	35×100	2.18
1000	30×60	2.25	35×70	2.56	35×100	2.96	40×100	2.78	51×80	2.77
1500	35×80	3.22	35×100	3.54	40×100	3.72	51×105	3.69		
2200	35×100	4.19	40×100	4.40	51×105	4.86	← Ripple current (A rms) at 85°C, 120Hz ← Case size $\varnothing D \times L$ (mm)			
3300	51×80	5.24	51×105	5.82						

LARGE TYPES