LG SERIES ALUMINUM ELECTROLYTIC CAPACITORS

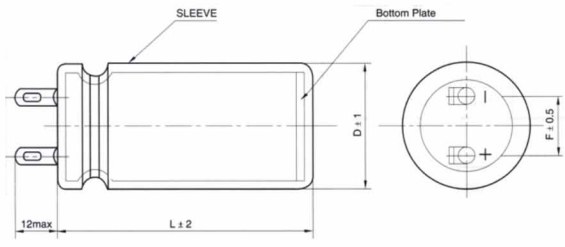
Features

- Load life of 2,000 hours at 85℃.
- Lug terminal type.
- Suitable for industral equipment.
- Having safety vents.

Characteristics

Item	Characteristics						
Operating temperature range	-40～+85℃(for 16V to 100V) -25～+85℃(for 160V to 450V)						
Rated voltage range	16～450V						
Capacitance range	68～100,000μF						
Capacitance tolerance (at20℃,120Hz)	-10%～+30%(Q)						
Leakage current(I) (at20℃)	After 5 minute application of rated voltage. I≤0.02CV or 5mA,whichever is smaller. Where C: Nominal capacitance in μF,V:Rated voltage in V.						
Dissipation factor(Tan δ) (at 20℃,120Hz)	W.V.(V)	16～25			35～63		80～350	400～450
	Cap(μF)	6800～10,000	15,000～33,000	47,000～100,000	1,500～10,000	15,000～47,000	100～10,000	68～680
	Tan δ (max.)	0.40	0.50	0.75	0.25	0.35	0.20	0.25
Low temperature characteristics (at 120Hz)	W.V.(v)		16～100	160～250	315～450			
	impedance ratio ZT/Z+20℃(max)	Z-25℃/Z+20℃	3		8			
		Z-40℃/Z+20℃	12	-	-			
Load life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage has been applied for 2,000 hours at 85℃.						
	Capacitance change	≤20% of the initial value					
	tan δ	≤200% of the initial specified value					
	I	≤The initial specified value					
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at 85℃ for 500 hours without voltage applied						
	Capacitance change	≤20% of the initial value					
	tan δ	≤150% of the initial specified value					
	I	≤200% of the initial specified value					
Others	Satisfies characteristic W of JIS C5141						

Dimensions



D	22	25	30	35
F	8	10	10	14

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Case Size DxL(mm) and Maximun Ripple current(A rms/at 85℃,120Hz)

W.V.(v) / Cap.(μF)	16	25	35	50	63	80	100	160	200	250	315	350	400	450
68													22×30 0.27	22×30 0.27
100											22×30 0.37	22×30 0.37	22×40 0.38	22×40 0.38
150										22×30 0.46	22×40 0.52	22×40 0.52	25×40 0.50	25×40 0.50
220								22×30 0.55	22×30 0.55	22×40 0.63	22×40 0.67	25×40 0.67	25×50 0.67	30×50 0.73
330								22×40 0.77	22×40 0.77	25×40 0.82	25×50 0.91	25×50 0.91	30×50 0.90	30×50 0.98
470								25×40 0.81	25×40 0.98	25×50 1.08	30×50 1.20	30×50 1.20	35×50 1.17	35×63 1.29
680								25×50 1.30	25×50 1.30	30×50 1.44	35×50 1.58	35×50 1.58	35×63 1.56	35×80 1.73
1,000						22×30 1.18	22×30 1.18	30×50 1.75	30×50 1.75	35×50 1.91	35×80 2.11	38×80 2.35		
1,500					22×30 1.29	22×40 1.63	22×40 1.63	35×50 2.34	35×50 3.13	35×63 3.48				
2,200				22×30 1.56	22×40 1.77	25×40 2.12	25×50 2.34	35×63 3.13	35×63 3.48					
3,300			22×30 1.91	22×40 2.17	25×40 2.33	25×50 2.87	30×50 3.18							
4,700			22×40 2.58	25×40 2.78	25×50 3.06	30×50 3.79	35×50 4.14							
6,800		22×30 2.17	22×40 3.11	25×50 3.68	30×50 4.08	35×50 4.98	35×63 5.50							
10,000	22×30 2.63	22×40 2.98	25×50 4.47	35×50 4.95	35×50 5.40	35×63 6.68	35×80 7.42							
15,000	22×40 3.26	30×50 3.87	35×50 5.12	35×50 5.59	35×63 6.18									
22,000	25×40 4.25	25×50 2.67	35×50 6.77	35×80 8.32										
33,000	30×50 6.36	35×50 6.94	35×63 9.17											
47,000	35×50 6.67	35×63 7.74	35×80 12.17											
68,000														
100,000														

Ripple Current Multipliers

Frequency multiplying factor

W.V.(v) \ Freq.(Hz)	50	60	120	1k	10k	≥50k
16～100	0.88	0.90	1.00	1.15	1.15	1.15
160～250	0.77	0.80	1.00	1.50	1.60	1.60
315～450	0.88	0.90	1.00	1.15	1.15	1.15

Temperature multiplying factor

Temperature(℃)	20	45	70	85
Factor	1.50	1.48	1.30	1.00