ALUMINUM ELECTROLYTIC CAPACITORS

LJ

High temperature and long life Series

■ Features : 105℃ 3000 hours , Wide temperature range for LF , Longer life than LG, Snap-in terminal, High ripple current

■ Recommended Applications: Smoothing circuit, TV/Monitor,Adapter, SMPS

■ Corresponding product to RoHS

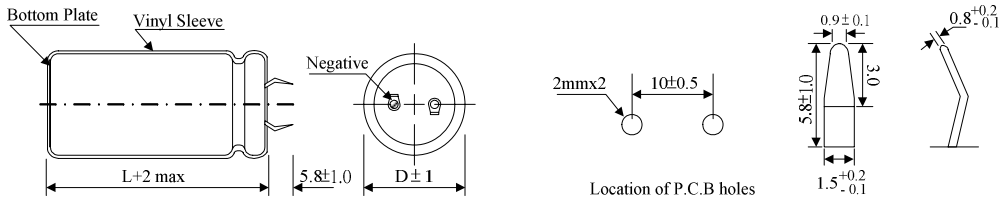
LJ ↑ Long Life

LG

■ Specifications

Item	Characteristics	
Operating Temperature Range	-40 ~ +105℃	-25 ~ +105℃
Rated Voltage Range	10 ~ 100VDC	160 ~ 450VDC
Capacitance Range	560 ~ 68000μF	56 ~ 2200μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃	
Leakage Current (MAX) (20℃)	I≦0.02CV or 3mA whichever is smaller(After rated voltage applied for 5 minutes) I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)	
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	Dissipation Factor(tan δ)shall not exceed the values showed in the table of standard rating	
Endurance	After applying rated voltage with rated Ripple current for 3000hrs at 105℃, the capacitor shall meet the following requirement. Capacitance Change: Within±20% of the initial value Dissipation Factor: Not more than 200% of the specified value Leakage Current: Not more than the specified value	
Shelf Life	After placed at 105℃without voltage applied for 1000 hours, the capacitor shall meet the same requirements as Endurance.	

■ Diagram of Dimensions



■ Multiplier for Ripple Current

Frequency coefficient

Freq. (Hz)	50	60	120	400	1K	2.4K	5K	10K
Coefficient	0.8	0.85	1.0	1.14	1.23	1.3	1.36	1.4

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■Dimensions,Max Dissipation Factor,Max Permissible Ripple Current,Max Equivalent Series Resistance

Capacitance (μF)	Rated (Surge) Voltage											
	10(13)						16(20)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
6800							22x25				0.55	0.107
							1.80					
8200							22x30	25x25			0.55	0.089
							2.05	2.05				
10000	22x25				0.55	0.073	22x35	25x30			0.55	0.073
	1.80						2.45	2.45				
12000	22x30	25x25			0.55	0.061	22x40	25x30	30x25		0.55	0.061
	2.05	2.05					2.73	2.60	2.68			
15000	22x35	25x30	30x25		0.55	0.049	22x45	25x35	30x30		0.55	0.049
	2.45	2.45	2.55				2.99	2.90	3.02			
18000	22x40	25x30	30x30		0.55	0.041	22x50	25x40	30x30	35x25	0.55	0.041
	2.94	2.80	3.11				3.43	3.33	3.30	3.37		
22000	22x45	25x35	30x30	35x25	0.55	0.033		25x45	30x35	35x30	0.55	0.033
	3.24	3.15	3.28	3.37				3.70	3.70	3.81		
27000		25x40	30x35	35x30	0.55	0.027			30x40	35x35	0.55	0.027
		3.5	3.67	3.78					4.15	4.27		
33000		25x45	30x40	35x30	0.55	0.022			30x50	35x40	0.55	0.022
		4.00	4.20	4.08					4.65	4.65		
39000		25x50	30x45	35x35	0.55	0.019				35x45	0.55	0.019
		4.45	4.67	4.63						5.25		
47000				35x40	0.55	0.016				35x50	0.55	0.016
				4.90						5.80		
56000				35x45	0.55	0.013						
				5.50								
68000				35x50	0.55	0.011						
				6.05								

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)						35(44)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
2700							22x25				0.40	0.196
							1.45					
3300							22x30				0.40	0.161
							1.60					
3900	22x25				0.45	0.153	22x30				0.40	0.136
	1.50						1.80					
4700	22x30				0.45	0.127	22x35	25x25			0.40	0.113
	1.80						2.23	2.10				
5600	22x30	25x25			0.45	0.107	22x40	25x30	30x25		0.40	0.095
	1.95	1.95					2.41	2.30	2.37			
6800	22x35	25x30			0.45	0.088	22x45	25x35	30x30		0.40	0.078
	2.20	2.20					2.68	2.60	2.70			
8200	22x40	25x35	30x25		0.45	0.073	22x50	25x40	30x30	35x25	0.40	0.065
	2.47	2.50	2.45				3.02	2.93	2.90	2.96		
10000	22x45	25x40	30x30		0.45	0.060		25x45	30x35	35x30	0.40	0.0531
	2.75	2.80	2.75					3.20	3.20	3.30		
12000	22x50	25x45	30x35	35x25	0.45	0.050		25x50	30x40	35x30	0.40	0.044
	3.13	3.22	3.19	3.10				3.64	3.67	3.6		
15000		25x50	30x40	35x30	0.45	0.040			30x45	35x35	0.40	0.035
		3.43	3.47	3.40					4.04	4.00		
18000			30x45	35x35	0.45	0.033				35x40	0.40	0.029
			3.94	3.90						4.60		
22000			30x50	35x40	0.45	0.027				35x50	0.40	0.024
			4.30	4.30						5.10		
27000				35x45	0.45	0.022						
				4.85								

☆Size:D φ x L(mm). ☆tan δ :20℃,120Hz. ☆Ripple Current: 105℃,120Hz,(A/rms) ☆ESR:20℃,120Hz,(Ω).

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■Dimensions,Max Dissipation Factor,Max Permissible Ripple Current,Max Equivalent Series Resistance

Capacitance (μF)	Rated (Surge) Voltage											
	50(63)						63(79)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
1200							22x25 / 1.25				0.30	0.332
1500	22x25 / 1.25				0.35	0.309	22x30 / 1.45	25x25 / 1.45			0.30	0.265
1800	22x30 / 1.45				0.35	0.258	22x35 / 1.6	25x30 / 1.6			0.30	0.221
2200	22x30 / 1.6	25x25 / 1.6			0.35	0.211	22x40 / 1.89	25x30 / 1.8	30x25 / 1.85		0.30	0.181
2700	22x35 / 1.8	25x30 / 1.8			0.35	0.172	22x45 / 2.06	25x35 / 2	30x30 / 2.08		0.30	0.147
3300	22x40 / 2.05	25x30 / 1.95	30x25 / 2.01		0.35	0.141		25x40 / 2.32	30x30 / 2.3	35x25 / 2.35	0.30	0.121
3900	22x45 / 2.27	25x35 / 2.2	30x30 / 2.29		0.35	0.119		25x45 / 2.55	30x35 / 2.55	35x30 / 2.63	0.30	0.102
4700	22x50 / 2.5	25x40 / 2.42	30x30 / 2.4	35x25 / 2.45	0.35	0.099		25x50 / 2.83	30x40 / 2.86	35x30 / 2.8	0.30	0.085
5600		25x45 / 2.7	30x35 / 2.7	35x30 / 2.78	0.35	0.083			30x45 / 3.18	35x35 / 3.15	0.30	0.071
6800			30x40 / 3.06	35x30 / 3	0.35	0.068			30x50 / 3.5	35x40 / 3.5	0.30	0.059
8200			30x45 / 3.38	35x35 / 3.35	0.35	0.057				35x45 / 3.9	0.30	0.049
10000				35x40 / 3.7	0.35	0.046						
12000				35x50 / 4.20	0.35	0.039						

Capacitance (μF)	Rated (Surge) Voltage											
	80(100)						100(125)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
560							22x25 / 1.20				0.25	0.592
680							22x30 / 1.35				0.25	0.488
820	22x25 / 1.20				0.25	0.404	22x30 / 1.50	25x25 / 1.50			0.25	0.404
1000	22x30 / 1.35				0.25	0.332	22x35 / 1.70	25x30 / 1.70			0.25	0.332
1200	22x35 / 1.59	25x25 / 1.50			0.25	0.276	22x40 / 1.97	25x35 / 1.99	30x25 / 1.95		0.25	0.276
1500	22x40 / 1.78	25x30 / 1.70	30x25 / 1.75		0.25	0.221	22x45 / 2.15	25x40 / 2.19	30x30 / 2.15	35x25 / 2.21	0.25	0.221
1800	22x45 / 2.01	25x35 / 1.95	30x30 / 2.03		0.25	0.184		25x45 / 2.45	30x35 / 2.45	35x30 / 2.52	0.25	0.184
2200		25x40 / 2.17	30x30 / 2.15	35x25 / 2.19	0.25	0.151		25x50 / 2.75	30x40 / 2.75	35x35 / 2.86	0.25	0.151
2700		25x45 / 2.45	30x35 / 2.45	35x30 / 2.52	0.25	0.123			30x45 / 3.08	35x35 / 3.05	0.25	0.123
3300			30x40 / 2.75	35x35 / 2.83	0.25	0.100			30x50 / 3.45	35x40 / 3.45	0.25	0.100
3900			30x45 / 3.13	35x35 / 3.10	0.25	0.085				35x45 / 3.90	0.25	0.085
4700				35x40 / 3.40	0.25	0.071				35x50 / 4.30	0.25	0.071
5600				35x50 / 3.80	0.25	0.059						

☆Size:D φ x L(mm). ☆tan δ :20℃,120Hz. ☆Ripple Current: 105℃,120Hz,(A/rms) ☆ESR:20℃,120Hz,(Ω).

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Capacitance (μF)	Rated (Surge) Voltage											
	160(200)						180(225)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
270	22x25				0.15	0.737	22x25				0.15	0.737
	0.85						0.85					
330	22x30				0.15	0.603	22x30				0.15	0.603
	1.00						1.10					
390	22x30	25x25			0.15	0.51	22x35	25x25			0.15	0.51
	1.15	1.15					1.32	1.25				
470	22x35	25x30			0.15	0.423	22x40	25x30			0.15	0.423
	1.30	1.30					1.47	1.40				
560	22x40	25x30	30x25		0.15	0.355	22x45	25x35	30x25		0.15	0.355
	1.57	1.50	1.54				1.70	1.63	1.60			
680	22x45	25x35	30x30		0.15	0.293	22x50	25x40	30x30	35x25	0.15	0.293
	1.75	1.70	1.77				1.87	1.82	1.80	1.84		
820	22x50	25x40	30x30	35x25	0.15	0.243		25x45	30x35	35x30	0.15	0.243
	2.03	1.97	1.95	1.99				2.05	2.05	2.11		
1000		25x45	30x35	35x30	0.15	0.199		25x50	30x40	35x30	0.15	0.199
		2.15	2.15	2.21				2.27	2.29	2.25		
1200			30x40	35x35	0.15	0.166			30x45	35x35	0.15	0.166
			2.45	2.52					2.57	2.55		
1500			30x50	35x40	0.15	0.133				35x40	0.15	0.133
			2.75	2.75						2.85		
1800				35x45	0.15	0.111				35x50	0.15	0.111
				3.00						3.10		
2200				35x50	0.15	0.09						
				3.50								

Capacitance (μF)	Rated (Surge) Voltage											
	200(250)						250(300)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
150							22x25				0.15	1.330
							0.75					
180							22x30				0.15	1.110
							0.85					
220	22x25				0.15	0.905	22x30	25x25			0.15	0.905
	0.85						1.00	1.00				
270	22x30				0.15	0.737	22x35	25x25			0.15	0.737
	1.00						1.22	1.15				
330	22x30	25x25			0.15	0.603	22x40	25x30			0.15	0.603
	1.15	1.15					1.36	1.30				
390	22x35	25x30			0.15	0.510	22x45	25x35	30x25	35x25	0.15	0.510
	1.30	1.30					1.54	1.48	1.45	1.59		
470	22x40	25x35	30x25		0.15	0.423	22x50	25x40	30x30	35x30	0.15	0.423
	1.52	1.54	1.49				1.78	1.75	1.72	1.88		
560	22x45	25x35	30x30		0.15	0.355		25x40	30x35	35x30	0.15	0.355
	1.7	1.65	1.72					1.80	1.89	1.94		
680		25x45	30x35	35x30	0.15	0.293		25x50	30x40	35x35	0.15	0.293
		1.97	1.97	2.02				2.10	2.10	2.18		
820		25x45	30x35	35x30	0.15	0.243			30x45	35x40	0.15	0.243
		2.20	2.10	2.16					2.30	2.39		
1000			30x45	35x35	0.15	0.199			30x50	35x45	0.15	0.199
			2.32	2.30					2.55	2.65		
1200			30x50	35x40	0.15	0.166				35x50	0.15	0.166
			2.75	2.75						2.90		
1500				35x45	0.15	0.133						
				2.90								

☆Size:D φ x L(mm). ☆tan δ :20℃,120Hz. ☆Ripple Current: 105℃,120Hz,(A/rms) ☆ESR:20℃,120Hz,(Ω).

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Capacitance (μF)	Rated (Surge) Voltage											
	315(365)						350(400)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
82	22x25				0.15	2.426	22x25				0.15	2.426
	0.55						0.60					
100	22x30				0.15	1.989	22x30	25x25			0.15	1.989
	0.65						0.70	0.70				
120	22x30	25x25			0.15	1.658	22x35	25x30			0.15	1.658
	0.75	0.75					0.80	0.80				
150	22x35	25x30			0.15	1.326	22x40	25x35	30x25		0.15	1.326
	0.8	0.80					0.86	0.87	0.85			
180	22x40	25x35	30x25		0.15	1.105	22x45	25x40	30x30		0.15	1.105
	1.01	1.02	1.00				1.05	1.07	1.05			
220	22x45	25x40	30x30		0.15	0.905	22x50	25x45	30x35	35x25	0.15	0.905
	1.10	1.12	1.10				1.16	1.20	1.18	1.15		
270		25x45	30x35		0.15	0.737		25x50	30x40	35x30	0.15	0.737
		1.25	1.25					1.31	1.33	1.3		
330		25x50	30x40	35x30	0.15	0.603			30x45	35x35	0.15	0.603
		1.53	1.53	1.50					1.46	1.45		
390			30x45	35x30	0.15	0.510			30x50	35x40	0.15	0.510
			1.71	1.60					1.65	1.65		
470			30x50	35x35	0.15	0.423				35x45	0.15	0.423
			1.85	1.75						1.85		
560				35x40	0.15	0.355				35x50	0.15	0.355
				2.00						2.10		
680				35x45	0.15	0.293						
				2.20								

Capacitance (μF)	Rated (Surge) Voltage											
	400(450)						450(500)					
	φ DxL / Ripple Current				tan δ	ESR	φ DxL / Ripple Current				tan δ	ESR
56							22x25				0.25	5.921
							0.55					
68	22x25				0.15	2.926	22x30				0.25	4.876
	0.55						0.65					
82	22x30	25x25			0.15	2.426	22x35	25x25			0.25	4.044
	0.65	0.65					0.80	0.75				
100	22x35	25x25			0.15	1.989	22x40	25x30			0.25	3.316
	0.79	0.75					0.89	0.85				
120	22x40	25x30	30x25		0.15	1.658	22x45	25x35	30x25		0.25	2.763
	0.89	0.85	0.87				0.95	0.92	0.90			
150	22x45	25x35	30x30	35x25	0.15	1.326	22x50	25x40	30x30		0.25	2.210
	0.93	0.90	0.94	0.96			1.14	1.11	1.10			
180	22x50	25x40	30x30	35x25	0.15	1.105		25x45	30x35	35x25	0.25	1.842
	1.14	1.11	1.10	1.12				1.25	1.24	1.20		
220		25x45	30x35	35x30	0.15	0.905		25x50	30x40	35x30	0.25	1.507
		1.20	1.20	1.24				1.36	1.38	1.35		
270		25x50	30x40	35x30	0.15	0.737			30x45	35x35	0.25	1.228
		1.36	1.38	1.35					1.51	1.50		
330			30x45	35x35	0.15	0.603			30x50	35x40	0.25	1.005
			1.51	1.50					1.70	1.70		
390			30x50	35x40	0.15	0.510				35x45	0.25	0.850
			1.70	1.70						1.90		
470				35x45	0.15	0.423				35x50	0.25	0.705
				1.90						2.10		

☆Size:D φ x L(mm). ☆tan δ :20℃,120Hz. ☆Ripple Current: 105℃,120Hz,(A/rms) ☆ESR:20℃,120Hz,(Ω).