

# ALUMINUM ELECTROLYTIC CAPACITORS

## LG

High temperature and general purpose Series

Upgrade

- Endurance : 105°C 2000 hours, high temperature than LH
- Ideally suitable for using in Switching Power Supplies and other industrial /commercial applications
- Corresponding product to RoHS

LG

↑ High temperature  
LH

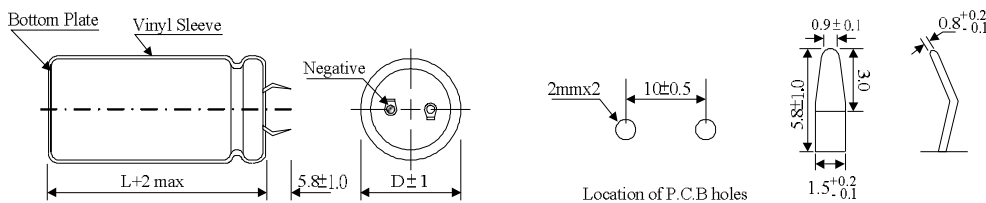
500V LINEUP



## Specifications

Item	Characteristics											
Operating Temperature Range	-40 ~ +105°C -25 ~ +105°C											
Rated Voltage Range	6.3 ~ 100VDC 160 ~ 500VDC											
Capacitance Range	560 ~ 82000µF 47 ~ 2200µF											
Capacitance Tolerance	± 20 % at 120Hz , 20°C											
Leakage Current (MAX)	I=0.02CV, L=20m/m, I=0.03CV or 3mA , whichever is smaller. (At 20°C, After 5 minutes) Where, I : Leakage Current (µA) ; C:Nominal Capacitance(µF) ; V:Rated Voltage(v)											
Dissipation Factor (MAX) (tanδ) (120Hz ,20°C)	Rated voltage(V)	6.3	10	16	25	35	50	63~100	160~400	420~450	500	
	tanδ	0.60	0.55	0.55	0.45	0.35	0.30	0.25	0.15	0.20	0.25	
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz											
	Rated voltage(V)	6.3~16	25	35	50~63	80~100	160~400	420~450	500			
	Z-25°C / Z+20°C	4	3	3	2	2	4	8	8			
	Z-40°C / Z+20°C	15	10	8	6	5						
Endurance	After applying rated voltage with rated Ripple current for 2000hrs at 105°C , the capacitor shall meet the following requirements.											
	Capacitance Change	Within ± 20 % of initial value										
	Dissipation Factor	Not more than 200% of the specified value										
	Leakage Current	initial specified value or less										
Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitor shall meet the same requirement as Endurance.											

## Diagram of Dimensions



## Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	50	60	120	1K	10K
6.3~100V	0.88	0.90	1.00	1.15	1.16
160~250V	0.85	0.88	1.00	1.30	1.50
315~450V	0.88	0.90	1.00	1.35	1.45
500V	0.70	0.72	1.00	1.30	1.41

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## ■ Dimensions, Rated Ripple Current

Capacitance ( $\mu$ F)	Rated (Surge) Voltage							
	6.3 (8)		10 (13)		16 (20)		25 (32)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4700							22x25	1.50
5600							22x30	1.65
							25x25	1.65
6800					22x25	1.55	22x30	1.85
							25x25	1.85
8200					22x30	1.70	22x35	2.10
					25x25	1.70	25x30	2.10
							30x25	2.15
10000			25x25	1.55	22x30	1.95	22x40	2.40
					25x25	1.95	25x35	2.40
							30x30	2.40
							35x25	2.40
12000	22x25	1.55	22x30	1.75	22x35	2.20	22x45	2.70
					25x30	2.25	25x40	2.75
					30x25	2.30	30x30	2.70
							35x25	2.75
15000	22x30	1.70	22x30	1.90	22x40	2.55	25x45	3.15
	25x25	1.70	25x25	1.90	25x35	2.60	30x35	3.15
					30x30	2.60	35x30	3.25
					35x25	2.65		
18000	22x30	1.95	22x35	2.20	22x45	2.90	25x50	3.55
	25x25	1.95	25x30	2.25	25x40	2.90	30x40	3.55
					30x30	2.90	35x35	3.55
					35x25	2.95		
22000	22x35	2.25	22x40	2.50	25x45	3.30	30x45	4.05
	25x30	2.25	25x35	2.55	30x35	3.30	35x35	3.80
	30x25	2.25	30x25	2.45	35x30	3.30		
27000	22x40	2.55	22x50	2.95	25x50	3.80	35x45	4.70
	25x35	2.55	25x40	2.90	30x40	3.75		
	30x30	2.55	30x30	2.85	35x30	3.75		
	35x25	2.55	35x25	2.80				
33000	22x45	2.90	25x45	3.30	30x45	4.30	35x50	5.40
	25x40	2.95	30x35	3.30	35x35	4.25		
	30x30	2.90	35x30	3.30				
	35x25	2.95						
39000	25x50	3.25	25x50	3.70	30x50	4.80	35x45	5.50
	30x35	3.25	30x40	3.7	35x40	4.80		
	35x30	3.30	35x30	3.65				
47000	25x50	3.70	30x45	4.20	35x45	5.45	35x50	6.00
	30x40	3.70	35x35	3.80				
56000	30x45	4.15	30x50	4.65	35x45	5.65		
	35x35	4.10	35x40	4.65				
68000	30x50	4.70	35x50	5.50	35x50	6.20		
	35x40	4.70						
82000	35x45	5.30						

☆ Size: D $\times$  L (mm)    ☆ Ripple Current : A/rms. 105°C, 120Hz

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**High temperature and general purpose Series**

## ■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage							
	35 (44)		50 (63)		63 (79)		80 (100)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
820							22x25	1.10
1000							22x30	1.20
							25x25	1.20
1200					22x25	1.20	22x30	1.40
							25x25	1.40
1500					22x30	1.30	22x35	1.60
					25x25	1.30	25x30	1.60
							30x25	1.65
1800			22x25	1.30	22x30	1.50	22x40	1.80
					25x25	1.50	25x35	1.85
							30x25	1.80
2200			22x30	1.55	22x35	1.70	22x45	2.05
			25x25	1.55	25x30	1.75	25x35	2.00
					30x25	1.80	30x30	2.05
							35x25	2.05
2700			22x30	1.70	22x40	2.00	25x45	2.35
			25x25	1.70	25x35	2.00	30x35	2.35
					30x25	1.95	35x30	2.35
3300	22x25	1.40	22x35	1.95	22x50	2.30	25x50	2.70
			25x30	1.85	25x40	2.30	30x40	2.70
					30x30	2.25	35x30	2.55
					35x25	2.10		
3900	22x30	1.55	22x40	2.15	25x45	2.55	30x45	3.00
	25x25	1.55	25x35	2.20	30x35	2.55	35x35	3.00
			30x25	1.95	35x30	2.55		
4700	22x35	1.80	22x45	2.45	25x50	2.85	30x50	3.40
	25x25	1.80	25x40	2.45	30x40	2.85	35x40	3.40
			30x30	2.45	35x30	2.80		
			35x25	2.50				
5600	22x35	1.95	22x50	2.75	30x45	3.20	35x45	3.80
	25x30	1.95	25x40	2.70	35x35	3.20		
	30x25	2.00	30x35	2.75				
			35x30	2.75				
6800	22x40	2.20	25x50	3.30	30x50	3.65	35x50	3.90
	25x35	2.25	30x40	3.30	35x40	3.65		
	30x30	2.30	35x30	3.25				
	35x25	2.35						
8200	22x50	2.55	30x45	3.60	35x45	3.90		
	25x40	2.50	35x35	3.55				
	30x30	2.75						
	35x25	2.75						
10000	25x45	2.85	30x50	4.05	35x50	4.40		
	30x35	2.90	35x40	4.00				
	35x30	2.95						
12000	25x50	3.25	35x45	4.55				
	30x40	3.25						
	35x30	3.15						
15000	30x45	3.70						
	35x35	3.65						
18000	35x40	4.35						
22000	35x50	4.90						

☆ Size: D $\times$  L (mm)    ☆ Ripple Current : A/rms. 105°C, 120Hz

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## ■ Dimensions, Rated Ripple Current

Capacitance ( $\mu$ F)	Rated (Surge) Voltage							
	100 (125)		160 (200)		180 (225)		200 (250)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
150							22x20	0.65
180					22x20	0.75	22x20	0.70
220			22x20	0.80	22x25	0.85	22x25	0.80
							25x20	0.80
270			22x25	1.00	22x25	0.95	22x25	0.85
					25x20	0.90	25x25	0.85
330			22x25	1.20	22x25	1.20	22x30	1.20
			25x20	1.15	22x30	1.10	25x25	1.20
					25x25	1.10		
390			22x30	1.30	22x30	1.30	22x30	1.30
			25x25	1.30	25x25	1.30	22x35	1.30
							25x30	1.30
							30x25	1.30
470			22x30	1.30	22x30	1.30	22x35	1.40
			22x35	1.40	22x35	1.35	22x40	1.40
			25x25	1.40	25x30	1.40	25x30	1.40
					30x25	1.40	30x25	1.50
560	22x25	1.05	22x40	1.50	22x40	1.50	22x45	1.55
			25x30	1.50	25x35	1.55	25x35	1.55
			30x25	1.50	30x25	1.50	30x30	1.55
680	22x25	1.20	22x45	1.70	22x45	1.70	22x50	1.75
			25x35	1.70	22x50	1.70	25x40	1.75
			30x25	1.70	25x35	1.70	30x30	1.75
					25x40	1.75	35x25	1.70
					30x30	1.70		
820	22x30	1.30	22x50	1.95	22x50	1.95	25x50	2.05
	25x25	1.33	25x40	2.00	25x40	2.00	30x35	2.00
			30x30	2.00	25x45	2.00	35x30	2.05
			35x25	1.90	30x35	2.00		
					35x25	1.90		
1000	22x35	1.50	25x45	2.20	25x45	2.20	30x40	2.30
	25x30	1.50	30x35	2.20	25x50	2.20	30x45	2.30
			35x30	2.20	30x35	2.25	35x30	2.30
					30x40	2.25	35x35	2.30
1200					35x30	2.25		
	22x40	1.70	25x50	2.45	25x50	2.45	30x50	2.60
	25x35	1.70	30x40	2.45	30x40	2.45	35x40	2.65
	30x25	1.70	35x30	2.45	30x45	2.50		
1500					35x35	2.50		
	22x45	1.95	30x45	2.80	30x45	2.80	35x45	3.10
	25x40	2.00	35x35	2.80	30x50	2.90		
	30x30	1.95			35x40	2.90		
1800					35x25	2.00		
	25x45	2.20	30x50	3.30	30x50	3.30	35x50	3.15
	30x35	2.50	35x45	3.30	35x50	3.30		
2200					35x30	2.45		
	25x50	2.55	35x50	3.75	35x50	3.60		
	30x40	2.70						
2700								
	35x30	2.55						
3300	30x45	2.90						
	35x35	2.85						
3900	30x50	3.25						
	35x40	3.25						
4700	35x45	3.70						
	30x50	3.80						
	35x50	3.80						

☆ Size: D $\times$  L (mm)    ☆ Ripple Current : A/rms. 105°C, 120Hz

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## ■ Dimensions, Rated Ripple Cur

Capacitance ( $\mu$ F)	Rated (Surge) Voltage									
	250 (300)		350 (400)		400 (450)		420(470)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
47					22x20	0.35			22x25	0.38
56			22x20	0.40	22x20	0.40			22x25	0.40
68			22x25	0.45	22x25	0.50			22x30	0.50
					25x20	0.50			25x25	0.50
82			22x25	0.55	22x25	0.52			22x30	0.52
			25x20	0.50	22x30	0.60			22x35	0.55
					25x25	0.65			25x30	0.55
									30x25	0.55
100			22x30	0.70	22x30	0.60			22x30	0.55
			25x25	0.70	22x35	0.65			22x40	0.65
					25x30	0.65			25x30	0.60
									30x25	0.65
120	22x20	0.60	22x35	0.75	22x30	0.62			22x35	0.60
			25x30	0.75	22x35	0.70			22x45	0.70
			30x25	0.75	25x30	0.70			25x35	0.70
					30x25	0.75			30x30	0.70
150									35x25	0.70
	22x25	0.65	22x40	0.80	22x35	0.72	22x35	0.58	22x40	0.68
			25x30	0.80	22x40	0.80	22x40	0.65	22x50	0.80
			30x25	0.85	25x30	0.85	25x30	0.70	25x40	0.80
					25x35	0.85			30x30	0.75
					30x30	0.85			35x25	0.75
180					35x25	0.80				
	22x25	0.80	22x45	0.90	22x40	0.81	22x40	0.68	22x45	0.75
	25x20	0.75	25x35	0.90	22x50	0.95	25x35	0.68	25x45	0.85
			30x30	0.90	25x40	0.95			30x35	0.85
					30x30	0.90			35x30	0.85
220	22x30	0.95	22x50	1.05	25x45	1.05	25x40	0.85	22x50	0.85
	25x25	0.95	25x40	1.05	30x35	1.05	25x45	0.95	25x50	1.00
			30x30	1.00	35x30	1.10	30x40	0.95	30x40	1.00
			35x25	1.05					35x30	1.00
270	22x35	1.15	25x45	1.20	25x45	1.10	25x45	1.05	25x50	1.05
	25x30	1.15	30x35	1.20	25x50	1.20	30x40	1.05	30x45	1.15
	30x25	1.15	35x30	1.20	30x40	1.20	35x30	1.05	35x35	1.15
					35x35	1.20				
330	22x40	1.25	30x40	1.35	25x50	1.25	25x50	1.15	30x45	1.25
	25x30	1.20	35x35	1.35	30x45	1.40	30x40	1.15	30x50	1.40
	30x25	1.25			35x35	1.35	35x35	1.15	35x40	1.40
390	22x45	1.5	30x45	1.50	30x45	1.42	30x45	1.25	30x50	1.40
	25x35	1.50	35x35	1.50	30x50	1.55			35x45	1.55
	30x30	1.50			35x40	1.55				
470	22x50	1.55	35x40	1.70	30x45	1.45	30x50	1.40	35x45	1.68
	25x40	1.55			35x40	1.65	35x40	1.35	35x50	1.70
	30x30	1.55			30x50	1.75				
	35x25	1.55			35x45	1.75				
560	25x45	1.80	35x45	1.90	35x45	1.80	35x45	1.65	35x50	1.80
	30x35	1.80			30x60	1.90			35x60	2.10
	35x30	1.80			35x50	1.90				
680	25x50	1.95			35x50	2.10				
	30x40	2.00			35x60	2.15				
	35x35	2.00								
820	30x45	2.15								
	35x35	2.10								
1000	35x40	2.30								
1500	35x50	3.63								

☆ Size: D $\times$  L (mm)    ☆ Ripple Current : A/rms. 105°C, 120Hz

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## ■ Dimensions, Rated Ripple Current

Capacitance ( $\mu$ F)	Rated (Surge) Voltage	
	500 (550)	
	Size	Ripple
47	22x25	0.51
56	22x30	0.58
68	25x25	0.65
82	22x35	0.72
	25x30	0.74
100	22x45	0.83
	30x25	0.82
120	22x50	0.93
	25x35	0.93
	30x30	0.91
150	25x45	1.08
	30x35	1.04
	35x25	0.99
180	25x50	1.20
	30x40	1.17
	35x30	1.10
220	30x45	1.33
	35x35	1.23
270	30x50	1.50
	35x40	1.42
330	35x45	1.60
390	35x50	1.78
470	35x60	2.03

☆ Size: D $\times$  L (mm) ☆ Ripple Current : A/rms. 105°C, 120Hz