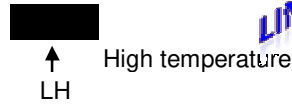


ALUMINUM ELECTROLYTIC CAPACITORS

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



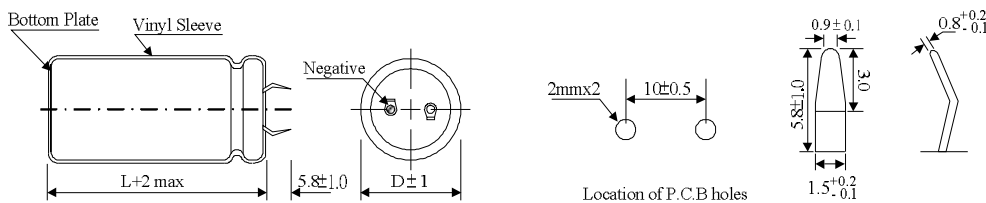
500V LINEUP



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

ALUMINUM ELECTROLYTIC CAPACITORS

LG

High temperature and general purpose Series

■ Dimensions, Rated Ripple Current

Capacitance (μF)	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

ALUMINUM ELECTROLYTIC CAPACITORS

LG

High temperature and general purpose Series

■ Dimensions, Rated Ripple Current

Capacitance (μ F)	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

ALUMINUM ELECTROLYTIC CAPACITORS

LG

High temperature and general purpose
Series

■ Dimensions, Rated Ripple Current

Capacitance (μ 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		
					35x25	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
					35x30	2.25		
1200	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		
					35x35	2.50		
1500	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		
	35x25	2.00						
1800	25x45	2.20	30x50	3.30	30x50	3.30	35x50	3.15
	30x35	2.50	35x45	3.30	35x50	3.30		
	35x30	2.45						
2200	25x50	2.55	35x50	3.75	35x50	3.60		
	30x40	2.70						
	35x30	2.55						
2700	30x45	2.90						
	35x35	2.85						
3300	30x50	3.25						
	35x40	3.25						
3900	35x45	3.70						
4700	35x50	3.80						

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

ALUMINUM ELECTROLYTIC CAPACITORS



High temperature and general purpose Series

■ Dimensions, Rated Ripple Cur

Capacitance (μF)	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
120									30x25	0.65
	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
270									35x30	1.00
	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
330										
					35x35	1.20				
	22x40	1.25	30x40	1.35	25x50	1.25	25x50	1.15	30x45	1.25
390										
	25x30	1.20	35x35	1.35	30x45	1.40	30x40	1.15	30x50	1.40
470										
	30x25	1.25			35x35	1.35	35x35	1.15	35x40	1.40
560										
	22x45	1.5	30x45	1.50	30x45	1.42	30x45	1.25	30x50	1.40
680										
	25x35	1.50	35x35	1.50	30x50	1.55			35x45	1.55
	30x30	1.50			35x40	1.55				
820										
	22x50	1.55	35x40	1.70	30x45	1.45	30x50	1.40	35x45	1.68
1000										
	25x40	1.55			35x40	1.65	35x40	1.35	35x50	1.70
1500										
	35x25	1.55			30x50	1.75				
1500										
	25x45	1.80	35x45	1.90	35x45	1.80	35x45	1.65	35x50	1.80
1500										
	30x35	1.80			30x60	1.90			35x60	2.10
1500										
	35x30	1.80			35x50	1.90				
1500										
	25x50	1.95			35x50	2.10				
1500										
	30x40	2.00			35x60	2.15				
1500										
	35x35	2.00								
1500										
	30x45	2.15								
1500										
	35x35	2.10								
1500										
	35x40	2.30								
1500										
	35x50	3.63								

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

ALUMINUM ELECTROLYTIC CAPACITORS

LG

High temperature and general purpose
Series

■ Dimensions, Rated Ripple Current

Capacitance (μ 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