

LG Series

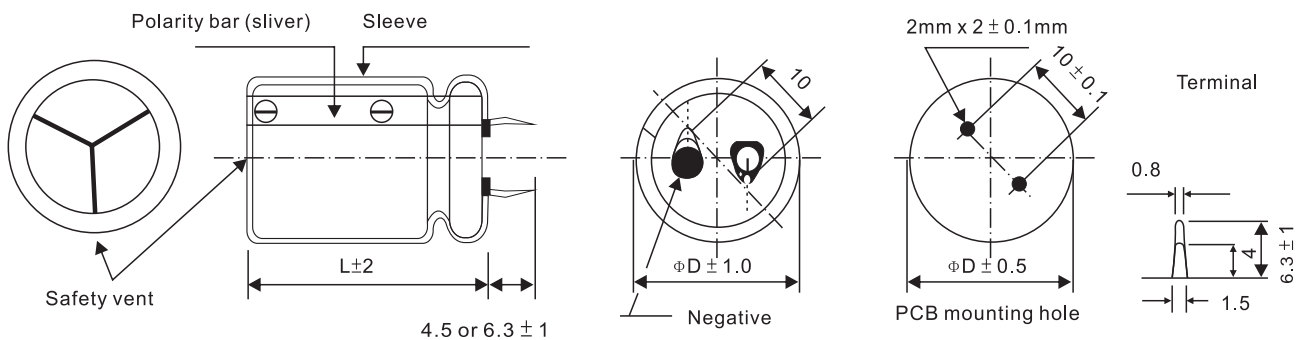
- Withstand high temperature for General purposes
- Endurance: 105°C 2000 hours (紋波疊加)



• SPECIFICATIONS

Items	Characteristics	
Category	- 40 to +105°C	- 25 to +105°C
Temperature Range		
Rated Voltage Range	10 to 100 Vdc	160 to 450 Vdc
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)	
Leakage Current	I=0.02CV, (3mA max) whichever is greater. (at 20°C, after 2 minutes) Where, I :Max. Leakage current (µA). C : Nominal capacitance (µF) .V :Rated voltage(V)	
Dissipation Factor (tan δ)	Rated voltage (Vdc)	10v 16v 25v 35v 50v 63v 80v 100v 160v 200v 250v 400v 450v
	tan δ (Max.)	0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.15 0.15 0.15 0.15
	(at 20°C ,120Hz)	
Low Temperature Characteristics	Impedance ration max at 120Hz	
	Working voltage	10 16 25 35 50 63 80 100 160 200 250 350 400~450
	Z-25°C/ Z+20°C	5 5 4 4 4 4 4 4 4 4 4 8 8
	Z-40°C/ Z+20°C	15 15 10 8 6 5 4 4 8 10
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 2000 hours at 105°C	
	Capacitance change	≦ ±20% of the initial value
	DF (tan δ)	≦ 200 % of the initial specified value
	Leakage current	≦ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing for 1000 hours at 105°C without voltage applied.	
	Capacitance change	≦ ±20% of the initial value
	DF (tan δ)	≦ 200 % of the initial specified value
	Leakage current	≦ The initial specified value

• Diagram: (Unit: mm)



Chip Type SMD

Miniature Type

General Purpose

High Frequency Low Impedance

High Voltage High Reliability

Non-polar Type

Large Size Snap-in

Large Size Screw

X Metallized Polypropylene Film Capacitors

LARGE ALUMINUM ELECTROLYTIC CAPACITORS LG Snap-in 105°C

CAP(μF)	Vdc		10v						16v								
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ			
5600																	
6800										22*25	1.75						
8200										22*30	2.00						
10000	22*25	1.77								22*30	2.10	25*25	2.05				
12000	22*30	2.10	25*25	1.94						22*35	2.31	25*30	2.30	30*25	2.30		
15000	22*35	2.23	25*30	2.10						22*40	2.68	25*35	2.58	30*30	2.57		
18000	22*40	2.41	25*30	2.34	30*25	2.25				22*50	3.20	25*40	3.16	30*30	2.98		
22000	22*45	2.58	25*35	2.54	30*30	2.50						25*45	3.36	30*35	3.30	35*30	3.25
27000	22*50	3.17	25*40	3.07	30*30	2.95						25*50	3.85	30*40	3.80	35*35	3.93
33000			25*45	3.39	30*35	3.33	35*30	3.21				25*45	4.05	30*45	4.30	35*35	4.27
39000					30*40	3.70	35*35	3.68						30*50	4.81	35*40	4.80
47000					30*45	4.22	35*40	4.16								35*45	5.53
56000							35*45	5.00									

CAP(μF)	Vdc		25v						35v								
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ			
2700																	
3300										22*25	1.45						
3900										22*30	1.69						
4700	22*25	1.61								22*35	2.02	25*25	1.62				
5600	22*30	1.80								22*35	2.13	25*30	2.00				
6800	22*35	2.09	22*25	1.87						22*40	2.41	25*35	2.31	30*25	2.31		
8200	22*40	2.31	25*30	2.34	30*25	2.16				22*50	2.85	25*40	2.73	30*30	2.75		
10000	22*45	2.65	25*35	2.61	30*30	2.61						25*45	3.05	30*35	3.05		
12000	22*50	2.80	25*40	2.81	30*30	2.74						25*50	3.37	30*40	3.23	35*30	3.19
15000			25*45	3.27	30*35	3.13	35*30	3.26						30*45	3.72	35*35	3.67
18000					30*40	3.56	35*35	3.84								35*40	4.37
22000					30*45	4.04	35*35	3.75								35*45	4.92
27000							35*45	4.74									

CAP(μF)	Vdc		50v						63v								
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ			
1500										22*30	1.47						
1800	22*25	1.34								22*30	1.58	22*25	1.52				
2200	22*30	1.60								22*35	1.82	25*30	1.75				
2700	22*30	1.70	25*25	1.70						22*40	2.07	25*35	2.11	30*25	1.72		
3300	22*35	1.97	25*30	1.88						22*45	2.33	25*35	2.27	30*30	2.24		
3900	22*40	2.22	25*30	2.20	30*25	1.95						25*40	2.51	30*35	2.55		
4700	22*45	2.43	25*35	2.43	30*30	2.25						25*50	2.97	30*40	2.86	35*30	2.80
5600	22*50	2.75	25*40	2.72	30*30	2.64								30*40	3.32	35*35	3.20
6800			25*45	3.30	30*35	3.30	35*30	3.25						30*50	3.65	35*40	3.65
8200					30*40	3.60	35*35	3.60								35*45	4.04
10000					30*50	4.05	35*40	4.04								35*50	4.48
12000							35*45	4.56									
15000							35*50	4.77									

Max ripple current:Arms/120Hz 105°C Size: D φ x L (mm)



CAP(μF)	Vdc		80v				100v							
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ				
680							22*25	1.09						
820							22*30	1.32						
1000	22*25	1.19					22*30	1.47	25*25	1.45				
1200	22*30	1.44					22*35	1.69	25*30	1.68				
1500	22*30	1.59	25*25	1.59			22*40	1.97	25*35	1.98	30*25	1.95		
1800	22*35	1.79	25*30	1.71			22*45	2.23	25*40	2.20	30*30	2.20		
2200	22*40	2.03	25*35	1.98	30*25	1.98			25*45	2.53	30*35	2.55	35*30	2.50
2700	22*45	2.39	25*40	2.35	30*30	2.35			25*50	2.82	30*40	2.86	35*35	2.89
3300			25*45	2.64	30*35	2.61	35*30	2.74			30*45	3.30	35*35	3.25
3900			25*50	2.92	30*40	2.82	35*30	2.97			30*50	3.60	35*40	3.67
4700					30*45	3.34	35*35	3.38					35*45	3.80
5600					30*50	3.80	35*40	3.80					35*50	4.05
6800							35*45	3.90						
8200							35*50	4.20						

CAP(μF)	Vdc		160v				200v								
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ					
180															
220	22*25	0.92						22*25	0.92						
270	22*25	0.95						22*25	0.99						
330	22*25	1.03						22*30	1.20	25*25	1.20				
390	22*30	1.17						22*35	1.30	25*30	1.34				
470	22*30	1.28	25*25	1.29				22*40	1.44	25*30	1.44	30*25	1.48		
560	22*35	1.45	25*30	1.49				22*45	1.60	25*35	1.60	30*30	1.60		
680	22*40	1.64	25*35	1.70	30*25	1.63		22*45	1.75	25*40	1.76	30*30	1.74		
820	22*45	1.85	25*40	1.92	30*30	1.91		22*50	2.10	25*45	2.10	30*35	2.11	35*30	2.10
1000			25*45	2.17	30*35	2.19		22*50	2.18	25*45	2.26	30*40	2.40	35*35	2.30
1200			25*50	2.43	30*40	2.48	35*30	2.25		25*50	2.50	30*45	2.69	35*35	2.53
1500					30*45	2.82	35*35	2.62				30*50	2.86	35*40	2.97
1800					30*50	3.13	35*40	2.97				35*55	3.25	35*50	3.45
2200							35*45	3.34				35*60	3.35	35*55	3.78

CAP(μF)	Vdc		250v				350v								
			22φ	25φ	30φ	35φ	22φ	25φ	30φ	35φ					
120								22*30	0.61	25*25	0.62				
150								22*35	0.73	25*30	0.73				
180	22*25	0.84						22*40	0.83	25*30	0.80	30*25	0.81		
220	22*30	0.97	25*25	0.99				22*45	0.94	25*35	0.92	30*30	0.98		
270	22*35	1.11	25*30	1.15				22*50	1.07	25*40	1.05	30*30	1.03		
330	22*40	1.26	25*30	1.26	30*25	1.31				25*45	1.24	30*35	1.24	35*30	1.18
390	22*45	1.41	25*35	1.42	30*30	1.50				25*50	1.38	30*40	1.39	35*35	1.39
470	22*50	1.58	25*40	1.61	30*30	1.61						30*45	1.57	35*35	1.50
560			25*45	1.80	30*35	1.84						30*50	1.75	35*40	1.69
680			25*50	2.03	30*40	2.09	35*30	1.96						35*45	1.96
820					30*45	2.35	35*35	2.26							

Max ripple current:Arms/120Hz 105°C Size: Dφ x L (mm)

Chip Type SMD
Miniature Type
General Purpose
High Frequency Low Impedance
High Voltage High Reliability
Non-polar Type
Large Size Snap-In
Large Size Screw
X Metallized Polypropylene Film Capacitors



◆ LARGE ALUMINUM ELECTROLYTIC CAPACITORS LG Snap-in 105°C

CAP(μF)	Vdc		400v						450v									
			22 φ		25 φ		30 φ		35 φ		22 φ		25 φ		30 φ		35 φ	
47																		
56										22*25	0.42							
68	22*25	0.49								22*30	0.50	25*25	0.50					
82	22*30	0.56								22*35	0.56	25*30	0.57					
100	22*30	0.62	25*25	0.61						22*40	0.64	25*30	0.63	30*25	0.67			
120	22*35	0.73	25*30	0.73						22*45	0.72	25*35	0.71	30*30	0.77			
150	22*40	0.85	25*35	0.85	30*25	0.79				22*50	0.80	25*40	0.82	30*30	0.85			
180	22*45	0.95	25*35	0.92	30*30	0.95						25*45	0.93	30*35	0.97			
220	22*50	1.08	25*40	1.05	30*35	1.24						25*50	1.05	30*40	1.10	35*30	1.01	
270			25*50	1.29	30*40	1.30	35*30	1.18						30*45	1.25	35*35	1.26	
330					30*45	1.47	35*35	1.14						30*50	1.42	35*40	1.44	
390					30*50	1.64	35*40	1.59								35*45	1.61	
470					30*50	1.87	35*45	1.87								35*50	1.80	
560							35*50	2.09										
680																		

Max ripple current:Arms/120Hz 105°C Size: D φ x L (mm)

● Ripple CurRent / Frequency Multiplier

Vdc \ Freq	60	120	1k	10k up
10~100v	0.9	1.00	1.15	1.25
160~250v	0.8	1.00	1.15	1.45
350v up	0.8	1.00	1.15	1.47

● Temperature coefficient

Temperature(°C)	~55	60	70	85	105
Factor	2.23	2.27	2.0	1.75	1.00