

# LX series

- Snap-in type, 85°C 2000 hours standard product.
- Suitable for filter circuit of home appliance, e.g. TV set, audio, etc.
- RoHS Compliance
- 基板自立 85°C 2000小時標準品。
- 適用於家電產品輸入/輸出電源的濾波迴路，如電視機、音響等。



## SPECIFICATIONS

Items 項目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)								
Operating Temperature Range 適用溫度範圍	-40 ~ +85°C				-25 ~ +85°C				
Rated Voltage Range 額定電壓範圍	10 ~ 100VDC				160 ~ 500VDC				
Leakage Current 洩漏電流	$I \leq 3\sqrt{CV}$ (µA) ( After 5 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor 散逸因素( tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C								
	Rated Voltage(V)	10	16	25	35	50~80	100~250	300	330~500
	tan δ(Max)	0.50	0.40	0.35	0.30	0.25	0.20	0.25	0.25
When nominal capacitance over 1000µF, tanδ shall be added 0.01 to the listed value with increase of every 1000µF.									
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	10~100			160~250		350~500		
	Z(-25°C)/Z(20°C)	4			4		8		
	Z(-40°C)/Z(20°C)	12			15		-		
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85°C.								
	Capacitance Change	Within ± 20% of Initial Value							
	tan δ	200% or less of Initial Specified Value							
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.								
	Capacitance Change	Within ± 20% of Initial Value							
	tan δ	150% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Standards 參照標準	JIS C 5101-4 (IEC 60384)								

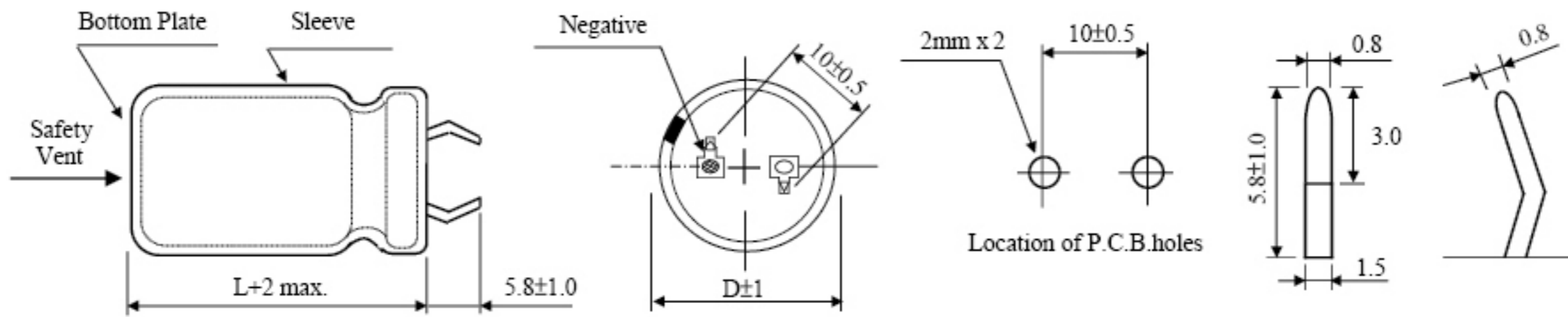
## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)			
	50	120	1K	≥ 10K
10 ~ 100	0.88	1.00	1.15	1.15
160 ~ 250	0.85	1.00	1.15	1.20
350 ~ 500	0.88	1.00	1.10	1.15

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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## DIMENSIONS(mm)



## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 85°C 120Hz

Cap (μF)	V Item	10		16		25		35		50		63		80	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
820														22x25	1.34
1000												22x25	1.52	22x25	1.64
1500												22x25	1.68	22x30 25x25	1.80
2200										22x25	2.08	22x30 25x25	2.58	22x35 25x30	2.65
2700										22x30	2.32	22x35 25x30	2.80	22x40 25x30	2.82
3300										22x30 25x25	2.65	22x40 25x30	2.88	22x45 25x40	3.30
3900								22x25	2.44	22x35 25x30	2.72	22x45 25x35	3.15	25x45 30x35	3.40
4700						22x25	2.49	22x30 25x25	2.64	22x40 25x35	3.09	22x50 25x40	3.39	25x50 30x40	3.62
6800				22x25	2.40	22x30 25x25	2.57	22x40 25x30	2.81	22x50 25x40	3.86	25x50 30x40	4.34	30x50 35x40	4.68
8200				22x25	2.90	22x35 25x25	2.96	22x45 25x35	3.12	25x50 30x40	4.42	30x45 35x35	4.84	35x45	4.96
10000		22x25	2.08	22x30	3.08	22x40 25x30	3.40	22x50 25x40	3.55	25x50 30x40	4.98	35x40	5.51	35x50	6.08
12000		22x25	2.40	22x30 25x25	3.50	22x45 25x35	3.61	25x45 30x35	4.02	30x50 35x35	5.16	35x50	6.22		
15000		22x30	2.76	22x35 25x30	3.95	25x45 30x35	4.10	30x40 35x35	5.01	35x45	6.45				
18000		22x35 25x25	3.14	22x40 25x35	4.40	25x45 30x35	4.47	30x45 35x40	5.55	35x50	6.72				
22000		22x40 25x30	3.53	22x50 25x40	4.71	25x50 30x45	5.22	35x45	6.02						
27000		22x45 25x35	4.18	25x45 30x35	5.51	30x50 35x40	6.02	35x50	6.85						
33000		22x50 25x40	5.21	25x50 30x40	5.82	35x45	6.78	35x45	6.95						
39000		25x45 30x35	5.30	30x45 35x35	6.36	35x45	7.60	35x50	7.16						
47000		30x40	5.98	30x50 35x40	6.99	35x50	7.88								
56000		30x45	6.60	35x45	7.17										
68000		35x40	7.28	35x50	10.10										

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D×L(mm) ; R.C.(A rms) at 85°C 120Hz

Cap (μF)	V	100		160		200		250		350		400		450		500	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
47												22x25	0.42	22x25	0.46	22x35	0.47
100										22x25	0.77	22x30 25x25	1.05	22x35 25x25	1.10	25x40	1.13
120										22x30 25x25	0.93	22x35 25x25	1.15	22x40 25x30	1.21	25x45	1.25
150								22x25	1.10	22x35 25x30	1.16	22x40 25x30	1.25	22x45 25x35	1.44	25x50 30x35	1.50 1.48
220				22x20	1.12	22x25 25x20	1.37	22x30 25x25	1.44	22x45 25x35	1.47	22x50 25x40	1.76	25x45 30x40	1.77	30x45	1.78
330				22x25 25x20	1.45	22x30 25x25	1.88	22x35 25x30	1.93	25x50 30x40	1.99	30x40 35x30	2.30	30x45 35x40	2.79	35x45	2.81
470				22x30 25x25	1.83	22x40 25x30	2.25	22x45 25x35	2.39	30x50 35x40	2.44	35x45	2.82	35x50	2.92	35x60	3.00
560				22x35 25x30	2.03	22x40 25x30	2.57	25x40 30x35	2.81	35x45	3.29	35x50	3.36	35x55	3.15	35x60	3.03
680		22x25	1.54	22x35 25x30	2.37	22x50 25x40	2.84	25x50 30x40	3.22	35x50	3.44	35x50	3.50	35x60	3.36	35x70	3.27
820		22x25 25x20	1.88	22x40 25x35	2.75	25x45 30x35	3.35	30x45 35x40	3.51	35x50	3.58	35x60	3.83	35x65	3.59	40x70	3.76
1000		22x30 25x25	1.94	25x40 30x35	3.22	25x50 30x40	3.79	30x50 35x45	3.94	35x55	3.89	35x65	4.20	35x70	3.81	45x80	4.21
1200		22x30 25x25	2.11	25x40 30x35	3.41	25x50 30x40	4.08	30x50 35x45	4.45	35x60	4.17	35x70	4.41	40x70	4.01	45x90	4.50
1500		22x35 25x30	2.47	30x45 35x35	3.96	30x50 35x40	5.02	35x50	5.36	35x65	4.56	40x70	4.52	45x70	4.13	45x100	4.80
2200		22x45 25x40	3.15	35x45	4.68	35x50	6.09	40x60	6.13	45x75	5.75	45x85	5.64	45x100	5.22		
2700		25x45 30x35	3.72	35x50	5.35												
3300		25x50 30x40	4.06														
3900		30x45 35x35	4.55														
4700		30x50 35x40	5.12														
6800		35x50	5.85														

