

LXA series

- Long life of LX series.
- Suitable for filter circuit of home appliance, e.g. TV set, audio, etc.
- RoHS Compliance
- LX系列壽命提升品
- 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~ 550VDC			
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	50~100	160~250	330~500
	tan δ(Max)	0.50	0.40	0.35	0.30	0.25	0.20	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 5,000 hours at 85°C.							
	Capacitance Change	within ±20% of Initial Value						
	tan δ	200% or less of Initial Specified Value						
	Leakage Current	Initial Specified Value or less						
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000hours 85°C without voltage applied. Before the measurement. The Capacitance 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 5101-4-1 (IEC 60384)							

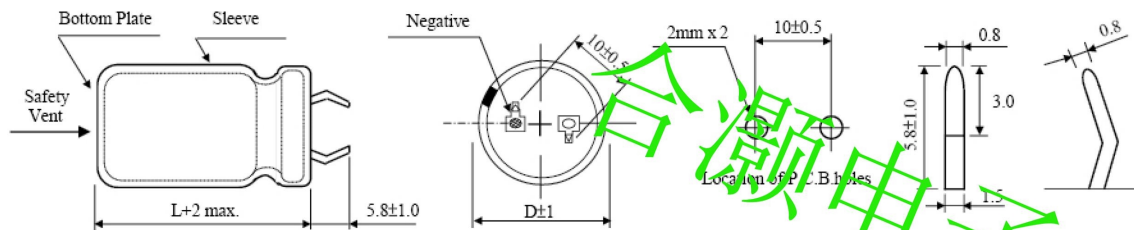
Frequency Coefficient of Permissible Ripple Current

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
330 ~ 550	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

Cap (μ F)	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	1.37
1000												22x25	1.55	22x25	1.67
1500												22x25	1.71	22x30 25x25	1.84
2200										22x25	2.12	22x30 25x25	2.63	22x35 25x30	2.70
2700										22x30	2.37	22x35 25x30	2.86	22x40 25x30	2.88
3300										22x30 25x25	2.70	22x40 25x30	2.94	22x45 25x40	3.37
3900								22x25	2.49	22x35 25x30	2.77	22x45 25x35	3.21	25x45 30x35	3.47
4700						22x25	2.54	22x30 25x25	2.69	22x40 25x35	3.15	22x50 25x40	3.46	25x50 30x40	3.69
6800				22x25	2.45	22x30 25x25	2.62	22x40 25x30	2.87	22x50 25x40	3.94	25x50 30x40	4.43	30x50 35x40	4.77
8200				22x25	2.96	22x35 25x25	3.02	22x45 25x35	3.18	25x50 30x40	4.51	30x45 35x35	4.94	35x45	5.06
10000	22x25	2.12	22x30	3.14	22x40 25x30	3.47	22x50 25x40	3.62	25x50 30x40	5.08	35x40	5.62	35x50	6.20	
12000	22x25	2.45	22x30 25x25	3.57	22x45 25x35	3.68	25x45 30x35	4.1	30x50 35x35	5.26	35x50	6.34			
15000	22x30	2.82	22x35 25x30	4.03	25x45 30x35	4.18	30x40 35x35	5.11	35x45	6.58					
18000	22x35 25x25	3.20	22x40 25x35	4.49	25x45 30x35	4.56	30x45 35x40	5.66	35x50	6.85					
22000	22x40 25x30	3.60	22x50 25x40	4.80	25x50 30x45	5.32	35x45	6.14							
27000	22x45 25x35	4.26	25x45 30x35	5.62	30x50 35x40	6.14	35x50	6.99							
33000	22x50 25x40	5.31	25x50 30x40	5.94	35x45	6.92	35x45	7.09							
39000	25x45 30x35	5.41	30x45 35x35	6.49	35x45	7.75	35x50	7.30							
47000	30x40	6.10	30x50 35x40	7.13	35x50	8.04									
56000	30x45	6.73	35x45	7.31											
68000	35x40	7.43	35x50	10.30											

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STANDARD RATINGS

Cap (μ F)	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	R.C.
47												22x25	0.43	22x25	0.47	22x35	0.48
100										22x25	0.79	22x30	1.07	22x35	1.12	25x40	1.15
120										22x30	0.95	22x35	1.17	22x40	1.23	25x45	1.28
150								22x25	1.12	22x35	1.18	22x40	1.28	22x45	1.47	25x50	1.53
220				22x20	1.14	22x25	1.40	22x30	1.47	22x45	1.50	22x50	1.80	25x45	1.81	30x45	1.82
330				22x25	1.48	22x30	1.92	22x35	1.97	25x50	2.03	30x40	2.35	30x45	2.85	35x45	2.87
470				22x30	1.87	22x40	2.30	22x45	2.44	30x50	2.49	35x45	2.88	35x50	2.98	35x60	3.06
560				22x35	2.07	22x40	2.62	25x40	2.87	35x45	3.36	35x50	3.43	35x55	3.21	35x60	3.09
680	22x25	1.57	22x35	2.42	22x50	2.90	25x50	3.28	35x50	3.51	35x50	3.57	35x60	3.43	35x70	3.34	
820	22x25	1.92	22x40	2.81	25x45	3.42	30x45	3.58	35x50	3.65	35x60	3.91	35x65	3.66	40x70	3.84	
1000	22x30	1.98	25x40	3.28	25x50	3.87	30x50	4.02	35x55	3.97	35x65	4.28	35x70	3.89	45x80	4.29	
1200	22x30	2.15	25x40	3.48	25x50	4.16	30x50	4.54	35x60	4.25	35x70	4.50	40x70	4.09	45x90	4.59	
1500	22x35	2.52	30x45	4.04	30x50	5.12	35x50	5.47	35x65	4.65	40x70	4.61	45x70	4.21	45x100	4.90	
2200	22x45	3.21	35x45	4.77	35x50	6.21	40x60	6.25	45x75	5.87	45x85	5.75	45x100	5.32			
2700	25x45	3.79	35x50	5.46													
3300	25x50	4.14															
3900	30x45	4.64															
4700	30x50	5.22															
6800	35x50	5.97															

合源电子

LXA