

LF series

- Long life of SL series.
- Suitable for LCD TV Power, SMPS.
- RoHS Compliance.
- SL系列壽命提升品。
- 適用於液晶顯示電源及開關電源等。



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	400 ~ 420VDC		450 ~ 500VDC		
Leakage Current 洩漏電流	$I \leq 0.03CV + 20 (\mu A)$ (After 3 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)	400~420	450	460	500
	tan δ (Max)	0.15	0.20	0.20	0.20
	When nominal capacitance over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F .				
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	400~420	450	460	500
	Z(-25°C)/Z(20°C)	3	3	6	6
	Z(-40°C)/Z(20°C)	6	-	-	-
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 8,000 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	200% 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)				

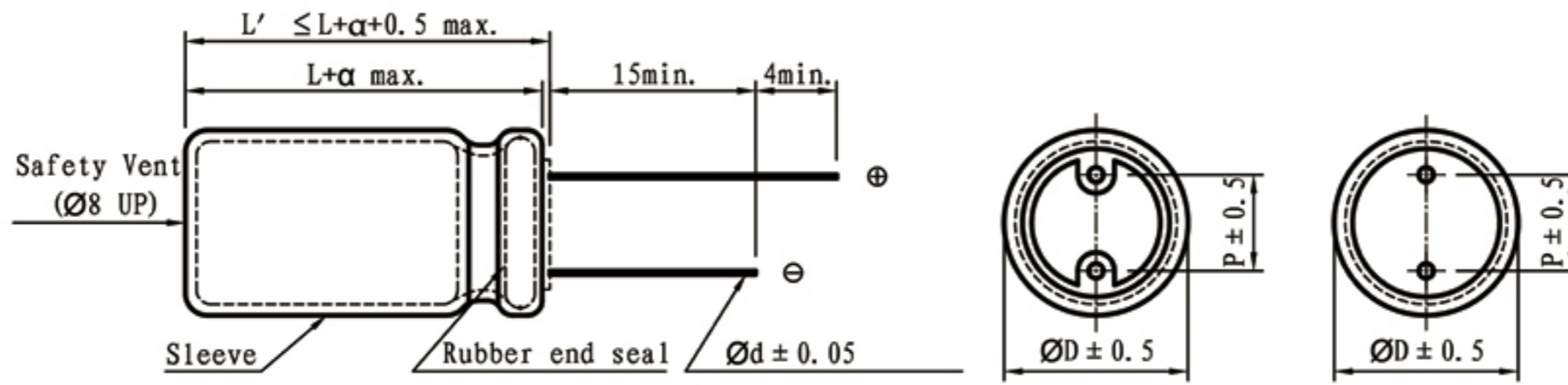
Frequency Coefficient of Permissible Ripple Current

Capacitance (μ F)	Frequency (Hz)				
	120	10K	30K	50K	100K
10 ~ 150	1.00	1.50	1.60	1.75	2.00

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.

LF series

DIMENSIONS(mm)



ϕD	10	13	16	18	20
P	5.0	5.0	7.5	7.5	10
ϕd	0.6	0.6	0.8	0.8	0.8

α	(L < 16) 1.0 (L \geq 16) 2.0
----------	-----------------------------------

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 85°C 120Hz.

Cap (μF)	V	400				420				450			
		Item	D x L	R.C.		D x L	R.C.		D x L	R.C.			
				120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		
10		10x16	150	300	10x20	180	360	10x20	150	300			
22		13x21	300	600	13x25	330	660	13x25	330	660			
47		13x25	350	700	16x22	400	800	16x26	380	760			
56		16x25	480	960	16x25	500	1000	16x32	450	900			
68		16x32	563	1126	16x32	550	1100	16x36	530	1060			
82		16x35	650	1300	16x36	630	1260	16x40	600	1200			
100		16x40	780	1560	16x40	750	1500	16x45	720	1440			
120		16x45	889	1778	16x45	840	1680	16x50	840	1680			
150		16x50	980	1960	16x50	920	1840						

Cap (μF)	V	460				500			
		Item	D x L	R.C.		D x L	R.C.		
				120Hz	100KHz		120Hz	100KHz	
10		13x16	120	240	13x16	115	230		
22		16x25	250	500	16x25	230	460		
47		16x36	450	900	16x36	435	870		
56		16x40	500	1000	16x40	491	982		
68		16x45	580	1160	16x45	563	1126		
82		16x50	650	1300	16x50	630	1260		
100		18x45	730	1460	18x45	700	1400		
120		20x45	800	1600					

※ 13mm may be replaced by 12.5mm upon customer's request.