

# LP Series

Snap-in Standard 85°C 2000Hrs Suit for use in filtering circuit of color TV, computer and home appliance

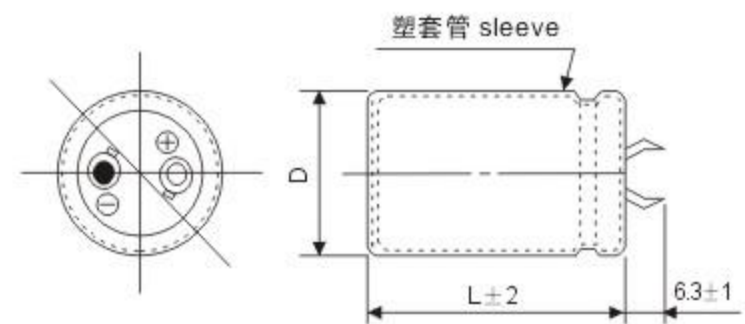
基板自立型標準品 85°C 2000小時 適用於彩電、電腦、功放、儀表儀器、家用電器等電源濾波

## Specifications

Items 項目	Characteristics 特性	
Operating Temperature Range 使用溫度範圍	-40°C ~ +85°C	-25°C ~ +85°C
Rated Voltage Range 額定電壓範圍	10 V ~ 100V VDC	160 V ~ 200V VDC
Capacitance Tolerance 靜電容量偏差	±20% (M) (at 20°C, 120Hz)	
Leakage Current 漏電流	I=0.02 CV or 3mA whichever is smaller (at 20°C, after 2 minutes) Where, I: leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V)	
Dissipation Factor (tan δ) 損失角正切(tan δ)	Rated voltage (V)	10    16    25    35    50    63~100    160~200
	DF(tan δ)	0.50    0.40    0.30    0.25    0.20    0.20    0.20
When the capacitance exceeds 30000μF, 0.1 shall be added every 10000μF increase. (at 20°C, 120Hz)		
Low Temperature Characteristics 低溫特性	Rated voltage (V)	10~16    25    35    50,63    100    160,200
	Z(-25°C)/(20°C)	6    6    6    4    3    8
	Z(-40°C)/(20°C)	15    15    10    8    6    -
Impedance ratio max at 120Hz.		
Load Life 高溫負荷特性	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with maximum ripple current is applied for 2000 hours at 85°C. Capacitance change ≅ ±20% of the initial measured value DF (tan δ) ≅ 200% of the initial specified value Leakage current ≅ The initial specified value	
Shelf Life 高溫貯存特性	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≅ ±20% of the initial measured value DF (tan δ) ≅ 150% of the initial specified value Leakage current ≅ The initial specified value	

## Pitch Dimension (mm)

D±1	2.2 ~ 2.5
L±2	2.5 ~ 5.0
F±0.5	1.0



## Ripple Current Multipliers

Frequency Coefficient 頻率修正系數

Freq 頻率 (Hz)	120	1K	10K ~ 30K
Factor 修正因子	1.00	1.15	1.45

Temperature Coefficient 溫度修正系數

Ambient temp 環境溫度 (°C)	65	70	85
Factor 修正因子	1.20	1.15	1.00

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## Standard Ratings

V <sub>DC</sub> (V)	10		16		25		35		50	
Item Cap(μF)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)
2200									22*25	1692
3300									22*35 25*30	2238 2209
3900									22*40 25*35	2601 2594
4700							22*30 25*25	2141 2084	22*45 25*35	2910 2736
5600					22*25	2012	22*35 25*30	2525 2492	22*50 25*40	3348 3192
6800					22*30 25*25	2364 2300	22*40 25*30	2660 2520	25*45 30*35	3731 3605
8200			22*25	2066	22*35 25*30	2667 2632	22*45 25*35	3099 2913	25*50 30*40	4162 4078
10000			22*30 25*25	2499 2432	22*40 25*30	3008 2777	22*50 30*30	3439 3111	30*45	4776
12000	22*25	2112	22*30 25*25	2737 2664	22*45 25*35	3496 3286	25*45 30*35	3810 3681	30*50	5328
15000	22*30 25*25	2420 2355	22*35 25*30	3306 3263	22*50 25*40	3951 3768	30*40	4400		
18000	22*35 25*30	2863 2826	22*40 25*35	3658 3648	25*45 30*35	4378 4229	30*50	5055		
22000	22*40 25*30	3384 3124	22*50 25*40	4044 3856	30*40	4998				
27000	22*45 25*35	3749 3524	25*45 30*35	4531 4378	30*45	5759				
33000	22*50 25*40	4369 4165	30*40	5174	30*55	6783				
39000	25*45 30*35	4803 4640	30*45	5966						
47000	25*50 30*40	5272 5166	30*50	6458						
56000	30*45	5981								
68000	30*50	6947								

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## Standard Ratings

V <sub>DC</sub> (V)	63		100		160		200	
Item Cap(μF)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)	Case Size D*L (mm)	Ripple Current 85°C120Hz (mA)
220							22*25 22*30	846 926
270					22*25	937	22*30	1026
330					22*25	1036	22*30 22*36 25*25	1135 1243 1104
470					22*30 25*25	1354 1318	22*40 25*30	1564 1444
560					22*35 25*30	1597 1576	22*40 22*45 25*35	1707 1810 1702
680					22*45 25*35	1995 1876	22*45 22*50 25*40	1995 2103 2005
820			22*30	1385	22*45 25*40	2191 2202	25*40 25*45 25*50 30*35	2202 2336 2462 2697
1000					22*50 25*45	2550 2579	25*50 30*45	2719 2826
1200			22*35 25*30	1810 1787	25*50 30*40	2978 2918	30*45	3095
1500			22*45 25*35	2295 2158	30*45	3461		
1800	22*30	1676	22*45 25*35	2514 2364	30*50	3996		
2200	22*35 25*25	2002 1803	22*50 25*40	2930 2794				
2700	22*35 25*30	2218 2189	25*45 30*35	3283 3172				
3300	22*40 25*35	2499 2492	30*45	3976				
3900	22*45 25*35	2759 2594	30*50	4556				
4700	22*50 25*40	3192 3044						
5600	25*45 30*35	3524 3405						
6800	30*40	4011						
8200	30*45	4672						
10000	30*50	5225						