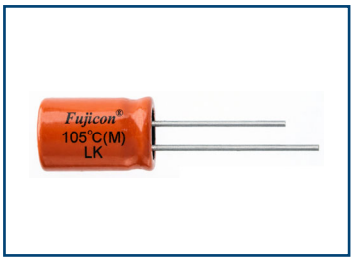
LK Series

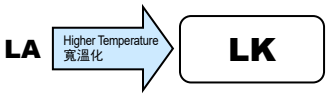
LOW LEAKAGE CURRENT, WIDE TEMPERATURE RANGE

低漏電流寬溫品





- Wide operating temperature range of -40~+105°C
  適用於-40~+105°C 的寬溫範圍
- Low leakage current series
  低漏電流系列
- For Hi-Fi sound audio systems
  適用於高保真音響設備
- Comply with the RoHS & REACH
  符合 RoHS 與 REACH



☐ SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性
Category Temperature Range 工作溫度範圍	-40 ~ +105°C
Voltage Range 額定工作電壓範圍	10 ~ 50V
Capacitance Range 靜電容量範圍	0.47 ~ 1000μF
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C
Leakage Current 漏電流	Leakage current ≤0.002CV or 0.4μA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤0.002CV 或 0.4μA，取較大值（在 20°C 環境中施加額定工作電壓 2 分鐘後） C: Nominal capacitance (μF) 標稱靜電容量, V: Rated voltage (V) 額定電壓
Dissipation Factor (tan δ) 損耗角正切	When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. 當標稱靜電容量大於 1000μF，其標稱靜電容量每增加 1000μF，損耗角正切增加 0.02。 Measurement frequency 測試頻率: 120Hz, Temperature 温度: 20°C

Rated Voltage (V) 額定工作電壓	10	16	25	35	50
tan δ (max.) 最大損耗角正切	0.20	0.16	0.14	0.12	0.10

Stability at Low Temperature
低溫特性

Measurement frequency 測試頻率: 120Hz

Rated Voltage (V) 額定工作電壓		10	16	25 ~ 50
Impedance Ratio 阻抗比	Z(-25°C) / Z(+20°C)	3	2	2
	Z(-40°C) / Z(+20°C)	6	6	4

Endurance
耐久性

When the capacitors are restored to 20°C after 1000 hours application of the rated voltage at 105°C, they meet the characteristics listed below.
在 105°C 環境中施加額定工作電壓 1000 小時後，待電容器恢復至 20°C 時進行測量，電容器的特性符合下表要求。

Capacitance Change 靜電容量變化率	Within ±20% of initial measured value 初始值的±20%以內
Dissipation Factor 損耗角正切	≤200% of initial specified value 不大於規範值的 200%
Leakage Current 漏電流	≤initial specified value 不大於規範值

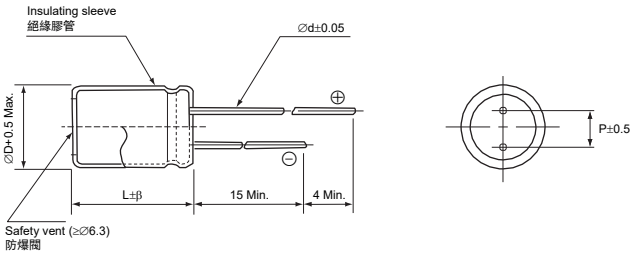
Shelf Life
高溫貯存特性

When the capacitors are restored to 20°C after leaving under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
在 105°C 環境中無負荷放置 1000 小時後，待電容器恢復至 20°C 時進行測量，電容器的特性符合耐久性特性中所列的規定值。

Marking
標識

Printed with black colour on orange sleeve (PVC) or printed with white colour on green sleeve (PET).
橘紅色膠管黑字印刷（PVC）或綠色膠管白字印刷（PET）。

☐ DRAWING & DIMENSIONS 外形圖及尺寸 (Unit: mm)



ØD	5	6.3	8 (L≤11.5)	8 (L≥16)	10
P	2.0	2.5	3.5		5.0
Ød	0.5			0.6	
β	1.5				

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.
注：以上所提供的設計及特性參數僅供參考，任何修改不作預先通知。如果在使用上有疑問，請在採購前與我們聯繫，以便提供技術上的協助。

LK Series

□ DIMENSIONS & STANDARD RATINGS 規格尺寸及標準參數

WV / Code 代碼 / μF		10		16		25		35		50	
		1A		1C		1E		1V		1H	
0.47	R47									5 x 11	9.6
0.68	R68									5 x 11	11
1	010									5 x 11	14
1.5	1R5									5 x 11	17
2.2	2R2									5 x 11	21
3.3	3R3									5 x 11	25
4.7	4R7									5 x 11	30
6.8	6R8									5 x 11	36
10	100									5 x 11	44
15	150							5 x 11	54	5 x 11	62
22	220			5 x 11	54	5 x 11	57	5 x 11	61	5 x 11	68
33	330			5 x 11	64	5 x 11	69	5 x 11	75	6.3 x 11.5	90
47	470	5 x 11	70	5 x 11	79	5 x 11	82	6.3 x 11.5	100	6.3 x 11.5	110
68	680	5 x 11	96	5 x 11	108	5 x 11	115	6.3 x 11.5	156	8 x 11.5	150
100	101	5 x 11	105	5 x 11 (6.3 x 11.5)	115 (125)	6.3 x 11.5	135	8 x 11.5	170	8 x 11.5	180
150	151	5 x 11	150	6.3 x 11.5	175	8 x 11.5	190	10 x 12	245	10 x 12	285
220	221	6.3 x 11.5	175	6.3 x 11.5	205	8 x 11.5	230	10 x 12	300	10 x 16	390
330	331	6.3 x 11.5	245	8 x 11.5	285	8 x 11.5	345	10 x 16	400		
470	471	8 x 11.5	355	8 x 11.5	365	10 x 12	470	10 x 20	565	Case size 尺寸	Ripple current 紋波電流
1000	102	10 x 12	600	10 x 16	745	10 x 20	850				

•Case size ∅D×L(mm), ripple current (mA rms) at 105°C, 120Hz •尺寸∅D×L(mm)，紋波電流(mA rms)於 105°C, 120Hz

- Please refer to page 21 “Taping Specifications” & page 23 “Lead Forming & Cutting” about the taped or formed product spec. 編帶與引線成型標準請查閱第 21 頁“編帶標準”及第 23 頁“引線成型與剪腳”。
- Please refer to page 22 “Packaging Specifications” for the minimum package quantity. 最小包裝數量請查閱第 22 頁“包裝標準”。
- Please refer to page 18 for the Part Number System. 產品編碼規則請查閱第 18 頁。

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