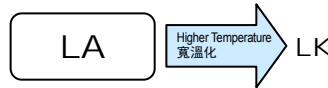


LA Series

LOW LEAKAGE CURRENT

低漏電流品

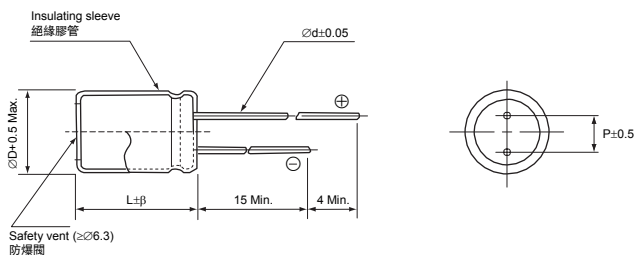
- Standard low leakage current series
低漏電流標準型系列
- Suitable for high gain audio coupling applications
適用於高增益音頻耦合器材
- Stable leakage current characteristics for a long period
使漏電流特性處於長週期穩定
- Load life of 2000 hours at 85°C
在 85°C 環境中負荷壽命 2000 小時
- Comply with the RoHS & REACH
符合 RoHS 與 REACH



□ SPECIFICATIONS 特性表

| Items 項目 | Characteristics 主要特性 | | | | | | | | | | | | | | | |
|------------------------------------|--|--|------|------|------|------|------|----|-----|----------------------|------|------|------|------|------|------|
| Operation Temperature Range 使用溫度範圍 | -40 ~ +85°C | | | | | | | | | | | | | | | |
| Voltage Range 額定工作電壓範圍 | 10 ~ 100V | | | | | | | | | | | | | | | |
| Capacitance Range 靜電容量範圍 | 1 ~ 4700μF | | | | | | | | | | | | | | | |
| 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 溫度: 20°C | | | | | | | | | | | | | | | |
| Stability at Low Temperature 低溫特性 | Measurement frequency 測試頻率: 120Hz | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Rated Voltage (V) 額定工作電壓</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ (max.) 最大損耗角正切</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table> | Rated Voltage (V) 額定工作電壓 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tan δ (max.) 最大損耗角正切 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 |
| Rated Voltage (V) 額定工作電壓 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | |
| tan δ (max.) 最大損耗角正切 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | |
| Load Life 高溫負荷特性 | After 2000 hours application of the rated voltage at 85°C, they meet the characteristics listed below. 在 85°C 環境中施加額定工作電壓 2000 小時後, 電容器的特性符合下表的要求。 | | | | | | | | | | | | | | | |
| | 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 | After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for load life characteristics listed above. 在 85°C 環境中無負荷放置 1000 小時後, 電容器的特性符合高溫負荷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). 桔紅色膠管黑字印刷 (PVC) 或綠色膠管白字印刷 (PET)。 | | | | | | | | | | | | | | | |

□ DRAWING 外形圖 (Unit: mm)



| ØD | 5 | 6.3 | 8 (L≤11.5) | 8 (L≥16) | 10 | 13 | 16 |
|----|-----|-----|---------------|-------------|-----|-----|-----|
| P | .0 | 2.5 | 3.5 | | 5.0 | | 7.5 |
| Ød | 0.5 | | | 0.6 | | 0.8 | |
| β | 1.5 | | | | 2.0 | | |

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。

CAT.2019/V4

LA Series

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 規格尺寸及最大允許紋波電流

| μF | WV Code 代碼 | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | | 100 | |
|------|------------------|------------|------|----------------------|--------------|------------|------|------------|------|------------|------|------------|------|------------|---------------------------|
| | | 1A | | 1C | | 1E | | 1V | | 1H | | 1J | | 2A | |
| 1 | 010 | | | | | | | | | | | 5 x 11 | 22 | 5 x 11 | 18 |
| 1.5 | 1R5 | | | | | | | | | | | 5 x 11 | 25 | 5 x 11 | 22 |
| 2.2 | 2R2 | | | | | | | | | 5 x 11 | 28 | 5 x 11 | 30 | 5 x 11 | 26 |
| 3.3 | 3R3 | | | | | | | | | 5 x 11 | 35 | 5 x 11 | 37 | 5 x 11 | 32 |
| 4.7 | 4R7 | | | | | | | | | 5 x 11 | 42 | 5 x 11 | 44 | 5 x 11 | 38 |
| 6.8 | 6R8 | | | | | | | 5 x 11 | 46 | 5 x 11 | 50 | 5 x 11 | 53 | 5 x 11 | 53 |
| 10 | 100 | | | | | 5 x 11 | 55 | 5 x 11 | 55 | 5 x 1 | 70 | 5 x 11 | 73 | 6.3 x 11.5 | 76 |
| 15 | 150 | | | 5 x 11 | 61 | 5 x 11 | 68 | 5 x 11 | 68 | 5 x 11 | 85 | 5 x 11 | 106 | 6.3 x 11.5 | 93 |
| 22 | 220 | 5 x 11 | 69 | 5 x 11 | 73 | 5 x 11 | 82 | 5 x 11 | 94 | 5 x 11 | 122 | 6.3 x 11.5 | 129 | 6.3 x 11.5 | 130 |
| 33 | 330 | 5 x 11 | 84 | 5 x 11 | 90 | 5 x 11 | 116 | 5 x 11 | 116 | 6.3 x 11.5 | 149 | 6.3 x 11.5 | 183 | 8 x 11.5 | 175 |
| 47 | 470 | 5 x 11 | 101 | 5 x 11 | 110 | 5 x 11 | 115 | 6.3 x 11.5 | 145 | 6.3 x 11.5 | 150 | 8 x 11.5 | 190 | 10 x 12 | 227 |
| 68 | 680 | 5 x 11 | 120 | 5 x 11 | 138 | 5 x 11 | 160 | 6.3 x 11.5 | 203 | 8 x 11.5 | 210 | 8 x 11.5 | 270 | 10 x 16 | 313 |
| 100 | 101 | 5 x 11 | 145 | 5 x 11 (6.3x11.5) | 145 (180) | 6.3 x 11.5 | 190 | 8 x 11.5 | 240 | 8 x 11.5 | 255 | 10 x 12 | 320 | 10 x 20 | 380 |
| 150 | 151 | 5 x 11 | 169 | 6.3 x 11.5 | 240 | 8 x 11.5 | 270 | 8 x 11.5 | 340 | 10 x 12 | 360 | 10 x 16 | 450 | 13 x 21 | 508 |
| 220 | 221 | 6.3 x 11.5 | 250 | 6.3 x 11.5 | 300 | 8 x 11.5 | 320 | 10 x 12 | 420 | 10 x 16 | 490 | 10 x 20 | 565 | 13 x 25 | 699 |
| 330 | 331 | 6.3 x 11.5 | 300 | 8 x 11.5 | 370 | 8 x 11.5 | 470 | 10 x 12 | 570 | 10 x 20 | 650 | 13 x 21 | 765 | 16 x 25 | 983 |
| 470 | 471 | 8 x 11.5 | 415 | 8 x 11.5 | 510 | 10 x 12 | 620 | 10 x 20 | 740 | 13 x 21 | 860 | 13 x 25 | 990 | 16 x 31 | 1320 |
| 680 | 681 | 8 x 11.5 | 580 | 10 x 16 | 715 | 10 x 16 | 860 | 10 x 20 | 1050 | 13 x 25 | 1200 | 16 x 25 | 1380 | | |
| 1000 | 102 | 10 x 12 | 790 | 10 x 20 | 910 | 10 x 20 | 1090 | 13 x 21 | 1300 | 16 x 25 | 1530 | | | | |
| 1500 | 152 | 10 x 20 | 1100 | 10 x 20 | 1275 | 13 x 25 | 1530 | 16 x 25 | 1820 | | | | | | |
| 2200 | 222 | 13 x 21 | 1240 | 13 x 25 | 1420 | 16 x 25 | 1660 | | | | | | | | |
| 3300 | 332 | 13 x 21 | 1590 | 13 x 25 | 1840 | | | | | | | | | | |
| 4700 | 472 | 13 x 25 | 1980 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Case size 尺寸 |
| | | | | | | | | | | | | | | | Ripple current 紋波電流 |

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 85°C, 120Hz •尺寸 $\varnothing D \times L$ (mm), 紋波電流(mA rms)於 85°C, 120Hz

- Please refer to page 19 "Taping Specifications" & page 21 "Lead Forming & Cutting" about the taped or formed product spec. 編帶與引線成型標準請查閱第 19 頁“編帶標準”及第 21 頁“引線成型與剪腳”。
- Please refer to page 20 "Packaging Specifications" for the minimum package quantity. 最小包裝數量請查閱第 20 頁“包裝標準”。
- Please refer to page 16 for the Part Number System. 產品編碼規則請查閱第 16 頁。

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