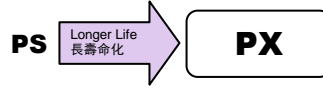


**PX Series** New  
新品

**RADIAL LEAD TYPE, ULTRA LONG LIFE**  
插件式, 超長壽命品



- Operating with wide temperature range -55~+105°C  
適用於 -55~+105°C 的寬溫範圍
- Ultra-low ESR, High Ripple Current  
超低阻抗, 高紋波電流
- Load life of 20000 hours  
負荷壽命 20000 小時
- RoHS & REACH compliant, Halogen-free  
符合 RoHS 與 REACH, 無鹵

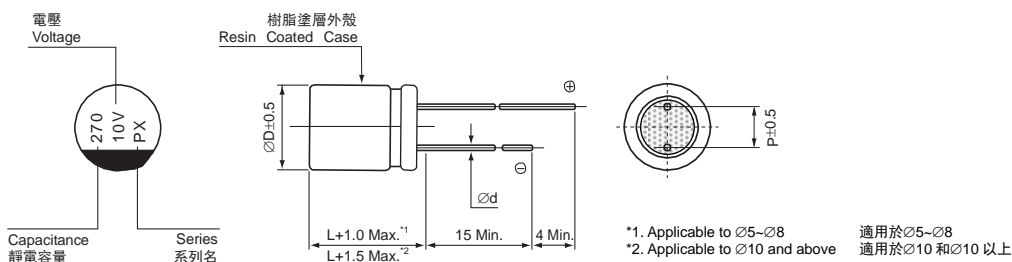


□ **SPECIFICATIONS 特性表**

| Items 項目   | Characteristics 主要特性   |  |       |               |
|--|--|--|-------|---------------|
| <b>Operation Temperature Range</b> 使用溫度範圍  | -55 ~ +105°C   |  |       |               |
| <b>Voltage Range</b> 額定工作電壓範圍  | 4 ~ 16V  |  |       |               |
| <b>Capacitance Range</b> 靜電容量範圍  | 100 ~ 1200µF   |  |       |               |
| <b>Capacitance Tolerance</b> 靜電容量允許偏差  | ±20% at 120Hz, 20°C  |  |       |               |
| <b>Leakage Current</b> 漏電流 (*1)  | ≤Specified value (after 2 minutes application of rated voltage at 20°C). ≤規範值(在 20°C 環境中施加額定工作電壓 2 分鐘後)。   |  |       |               |
| <b>Dissipation Factor (tan δ)</b> 損耗角正切  | ≤Specified value at 120Hz, 20°C. ≤規範值(在 20°C 120Hz 環境下)。   |  |       |               |
| <b>ESR</b> 阻抗值 (*2)  | ≤Specified value at 100KHz, 20°C. ≤規範值(在 20°C 100KHz 環境下)。   |  |       |               |
| <b>Stability at Low Temperature</b><br>低溫特性  | Measurement frequency 測試頻率: 100KHz   |  |       |               |
|  | <table border="1"> <tr> <td>Impedance Ratio 阻抗比<br/>Z(+105°C)/Z(20°C)</td> <td>≤1.25</td> </tr> <tr> <td>ZT/Z20 (max.)</td> <td>≤1.25</td> </tr> </table>  | Impedance Ratio 阻抗比<br>Z(+105°C)/Z(20°C)             | ≤1.25 | ZT/Z20 (max.) |
| Impedance Ratio 阻抗比<br>Z(+105°C)/Z(20°C)   | ≤1.25  |  |       |               |
| ZT/Z20 (max.)  | ≤1.25  |  |       |               |
| <b>Damp Heat (Steady State)</b><br>穩態濕熱  | When the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90% RH, they meet the characteristics listed below.<br>在 60°C 和相對濕度 90% 環境下施加額定工作電壓 1000 小時並冷卻至 20°C 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 value 為初始值的±20%以內 (*3)        |       |               |
|  | Dissipation Factor 損耗角正切   | 150% or less of initial specified value 不大於規範值的 150% |       |               |
|  | ESR 阻抗值 (*2)   | 150% or less of initial specified value 不大於規範值的 150% |       |               |
|  | Leakage Current 漏電流  | Initial specified value or less 不大於規範值               |       |               |
| <b>Endurance</b><br>耐久性  | After 20000 hours application of the rated voltage at 105°C, they meet the characteristics listed below.<br>在 105°C 環境中施加額定工作電壓 20000 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 value 為初始值的±20%以內 (*3)        |       |               |
|  | Dissipation Factor 損耗角正切   | 150% or less of initial specified value 不大於規範值的 150% |       |               |
|  | ESR 阻抗值 (*2)   | 150% or less of initial specified value 不大於規範值的 150% |       |               |
|  | Leakage Current 漏電流  | Initial specified value or less 不大於規範值               |       |               |
| <b>Resistance to Soldering Heat</b><br>耐焊接熱特性<br><small>(Please refer page 9 for soldering conditions)<br/>(焊接條件請查閱第 12 頁)</small> | After reflow soldering and restored at room temperature, they meet the characteristics listed below.<br>經過回流焊並冷卻至室溫後, 電容器的特性符合下表的要求。   |  |       |               |
|  | Capacitance Change 靜電容量變化率   | Within ±10% of initial value 初始值的±10%以內 (*3)         |       |               |
|  | Dissipation Factor 損耗角正切   | 130% or less of initial specified value 不大於規範值的 130% |       |               |
|  | ESR 阻抗值 (*2)   | 130% or less of initial specified value 不大於規範值的 130% |       |               |
|  | Leakage Current 漏電流  | Initial specified value or less 不大於規範值               |       |               |
| <b>Marking</b> 標識  | Red print on the case top. 鋁殼頂部紅色字體印刷。   |  |       |               |

(\*1) If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.  
如未能確定, 在 105°C 環境下連續施加額定工作電壓 120 分鐘後測量漏電流。  
(\*2) Should be measured at both of the terminal ends closest to the capacitor body.  
測試應為靠近兩個端子的末端。  
(\*3) The value before test of examination of resistance to soldering.  
焊接測試前的值。

□ **DRAWING 外形圖** (Unit: mm)



Dimension table in next page.  
尺寸表見下一頁。

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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。

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**PX Series** New  
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□ DIMENSIONS 尺寸表 (Unit: mm)

| ØD × L | 6.3 × 9 | 6.3 × 10.5 | 8 × 7 | 8 × 9 | 8 × 12 | 10 × 13 |
|--------|---------|------------|-------|-------|--------|---------|
| P      | 2.5     | 2.5        | 3.5   | 3.5   | 3.5    | 5.0     |
| Ød     | 0.6     | 0.6        | 0.6   | 0.6   | 0.6    | 0.6     |
| L      | 9.0     | 10.5       | 7.0   | 9.0   | 12.0   | 13.0    |

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

| WV (V)<br>Parameter<br>參數 |     | 4 (0G)                       |   |                                   |   |  | 6.3 (0J)                     |   |                                   |   |  |
|---------------------------|-----|------------------------------|---|-----------------------------------|---|--|------------------------------|---|-----------------------------------|---|--|
|                           |     | Case size<br>ØD×L (mm)<br>尺寸 | Dissipation<br>factor<br>(tan δ)<br>損耗角正切 | Leakage<br>current<br>(µA)<br>漏電流 | ESR (mΩ)<br>max. 20°C,<br>100KHz<br>阻抗值 | Ripple current<br>(mA rms)<br>105°C,<br>100KHz<br>紋波電流 | Case size<br>ØD×L (mm)<br>尺寸 | Dissipation<br>factor<br>(tan δ)<br>損耗角正切 | Leakage<br>current<br>(µA)<br>漏電流 | ESR (mΩ)<br>max. 20°C,<br>100KHz<br>阻抗值 | Ripple current<br>(mA rms)<br>105°C,<br>100KHz<br>紋波電流 |
| 270                       | 271 | 6.3 × 9                      | 0.08                                      | 216                               | 8                                       | 4800   |                              |   |                                   |   |  |
| 330                       | 331 |                              |   |                                   |   |  | 6.3 × 10.5                   | 0.08                                      | 416                               | 20                                      | 3000   |
| 390                       | 391 |                              |   |                                   |   |  | 8 × 7                        | 0.08                                      | 491                               | 15                                      | 3900   |
| 470                       | 471 |                              |   |                                   |   |  | 8 × 12                       | 0.08                                      | 592                               | 7                                       | 5500   |
| 560                       | 561 | 8 × 7<br>(8 × 9)             | 0.08<br>(0.08)                            | 448<br>(448)                      | 15<br>(7)                               | 3900<br>(5200)   | 6 × 9<br>(8 × 9)             | 0.08<br>(0.08)                            | 706<br>(706)                      | 9<br>(8)                                | 4300<br>(5000)   |
| 680                       | 681 | 8 × 12                       | 0.08                                      | 544                               | 7                                       | 5500   |                              |   |                                   |   |  |
| 820                       | 821 |                              |   |                                   |   |  | 10 × 13                      | 0.08                                      | 1033                              | 8                                       | 5500   |
| 1200                      | 122 | 10 × 13                      | 0.08                                      | 960                               | 8                                       | 5800   |                              |   |                                   |   |  |

| WV (V)<br>Parameter<br>參數 |     | 10 (1A)                      |   |                                   |   |  | 16 (1C)                      |   |                                   |   |  |
|---------------------------|-----|------------------------------|---|-----------------------------------|---|--|------------------------------|---|-----------------------------------|---|--|
|                           |     | Case size<br>ØD×L (mm)<br>尺寸 | Dissipation<br>factor<br>(tan δ)<br>損耗角正切 | Leakage<br>current<br>(µA)<br>漏電流 | ESR (mΩ)<br>max. 20°C,<br>100KHz<br>阻抗值 | Ripple current<br>(mA rms)<br>105°C,<br>100KHz<br>紋波電流 | Case size<br>ØD×L (mm)<br>尺寸 | Dissipation<br>factor<br>(tan δ)<br>損耗角正切 | Leakage<br>current<br>(µA)<br>漏電流 | ESR (mΩ)<br>max. 20°C,<br>100KHz<br>阻抗值 | Ripple current<br>(mA rms)<br>105°C,<br>100KHz<br>紋波電流 |
| 100                       | 101 |                              |   |                                   |   |  | 6.3 × 10.5                   | 0.08                                      | 320                               | 24                                      | 2800   |
| 150                       | 151 | 6.3 × 10.5                   | 0.08                                      | 300                               | 20                                      | 3000   |                              |   |                                   |   |  |
| 270                       | 271 | 8 × 12                       | 0.08                                      | 540                               | 8                                       | 4900   | 8 × 12                       | 0.08                                      | 864                               | 9                                       | 4500   |
| 330                       | 331 |                              |   |                                   |   |  | 10 × 13                      | 0.08                                      | 1056                              | 9                                       | 4700   |
| 470                       | 471 | 10 × 13                      | 0.08                                      | 940                               | 8                                       | 5500   | 10 × 13                      | 0.08                                      | 1504                              | 9                                       | 4700   |

- Please refer to page 14 about the taped or cutting product spec. 編帶與剪腳標準請查閱第 14 頁。
- Please refer to page 13 for the minimum package quantity. 最小包裝數量請查閱第 13 頁。
- Please refer to page 10 for the Part Number System. 產品編碼規則請查閱第 10 頁。

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