

LX

特点 Features

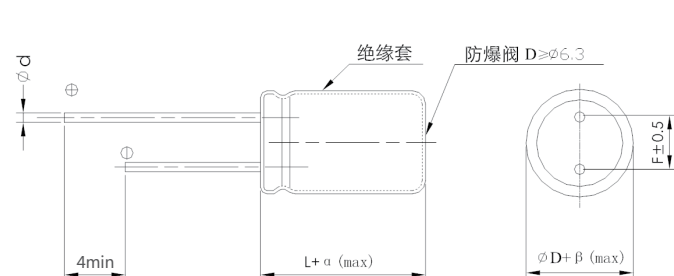
- 保证130°C 2000~5000小时。Endurance :2000~5000h at 130°C.
- 额定电压范围：10~450V。Rated Voltage Range: 10~450V.
- 超高温。Extremely high temperature.
- 满足RoHS。RoHS Compliant.



主要技术性能 Specifications

| 项目 Items | 特性 Performance Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|------------|------------|---------|---------|--------------|---|------------|------------|------------|------|------|---|-----|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|--------------|
| 类别温度范围 Category Temperature Range | -55 ~ +130°C | -40 ~ +130°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 额定电压范围 Rated Voltage(U _R) | 10~100V | 160~450V | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 标称容量范围 Nominal Capacitance Range(C _R) | 1~3300µF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 标称容量允许偏差 Allowed Capacitance Tolerance(C _T) | ±20%(M) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流 Leakage Current(I _L) | ≤0.01C _R U _R 或者3µA取较大值 (Whichever is greater) | ≤0.02 C _R U _R +10µA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损耗角正切值 Tangent of loss angle(Tanδ) | <table border="1"> <tr> <th>U_R (V)</th> <td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td> </tr> <tr> <th>Tanδ</th> <td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.12</td><td>0.12</td><td>0.12</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.20</td> </tr> </table> | U _R (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | Tanδ | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | 120Hz, +20°C |
| | U _R (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | |
| Tanδ | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | | | | | | | | | | | | | | | | | |
| 当容量大于1000µF时，每增加1000µF，其损耗角正切值增加0.02 When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. | | Max. 120Hz, +20°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 低温特性 Characteristics at low temperature | <table border="1"> <tr> <th>U_R (V)</th> <td>10~16</td><td>25~100</td><td>160~250</td><td>350~400</td><td>450</td> </tr> <tr> <th>Z_{-40°C} / Z_{+20°C}</th> <td>4</td><td>3</td><td>6</td><td>7</td><td>9</td> </tr> <tr> <th>Z_{-55°C} / Z_{+20°C}</th> <td>8</td><td>6</td><td>-</td><td>-</td><td>-</td> </tr> </table> | U _R (V) | 10~16 | 25~100 | 160~250 | 350~400 | 450 | Z _{-40°C} / Z _{+20°C} | 4 | 3 | 6 | 7 | 9 | Z _{-55°C} / Z _{+20°C} | 8 | 6 | - | - | - | Max. 120Hz | | | | | | | | | | |
| | U _R (V) | 10~16 | 25~100 | 160~250 | 350~400 | 450 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z _{-40°C} / Z _{+20°C} | 4 | 3 | 6 | 7 | 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| Z _{-55°C} / Z _{+20°C} | 8 | 6 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 耐久性 Load life | +130°C，不超过额定电压的范围下叠加额定纹波电流，连续施加表中规定额定电压时间，恢复16小时后： Overlay the rated ripple current within the range of rated voltage, continuously apply the rated voltage specified in the table for a time +130 °C, and recover for 16 hours ; 容量变化率Capacitance change : ±30%初始测量值以内 within ±30% of initial value 损耗角正切值 Tanδ : ≤3倍初始规定值 Not more than 300% of specified value 漏 电 流 Leakage current : ≤初始规定值 Not more than specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <th>ΦD</th> <td>6.3</td><td>8</td><td>10</td><td>≥12.5</td> </tr> <tr> <th>10~450 (V)</th> <td>2000 hours</td><td>2000 hours</td><td>3000 hours</td><td>5000 hours</td> </tr> </table> | ΦD | 6.3 | 8 | 10 | ≥12.5 | 10~450 (V) | 2000 hours | 2000 hours | 3000 hours | 5000 hours | | | | | | | | | | | | | | | | | | | |
| ΦD | 6.3 | 8 | 10 | ≥12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10~450 (V) | 2000 hours | 2000 hours | 3000 hours | 5000 hours | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高温贮存 Shelf life | +130°C,1000小时贮存后,恢复16小时后： After storage for 1000 hours at +130°C and then recovery 16 hours: 容量变化率Capacitance change : ±30%初始测量值以内 within ±30% of initial value 损耗角正切值 Tanδ : ≤3倍初始规定值 Not more than 300% of specified value 漏 电 流 Leakage current : ≤5倍初始规定值 Not more than 500% of specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

尺寸图 Dimension drawings



单位 Unit: mm

| ΦD | 6.3 | 8 | 10~12.5 | 16~18 |
|--------|-----------------------|---------|---------|-------|
| F | 2.5 | 3.5 | 5.0 | 7.5 |
| d | 0.5 | 0.5、0.6 | 0.6 | 0.8 |
| α(max) | (L<20) 1.5 (L≥20) 2.0 | | | |
| β(max) | 0.5 | | | |

频率修正系数 Frequency Coefficient

| Frequency (Hz) | 50 | 120 | 1K | 10K | 100K |
|------------------|------|------|------|------|------|
| Kf | 0.40 | 0.50 | 0.80 | 0.90 | 1.00 |

**规格特性表
Table of specifications and characteristics**

| C _r (μF) | U _r (V) | 10 | | 16 | | 25 | |
|---------------------|--------------------|---------------|--|---------------|--|---------------|--|
| | | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA |
| 100 | | | | 6.3×11 | 200 | 6.3×11 | 240 |
| 150 | | 6.3×11 | 220 | 6.3×11 | 230 | 8×11.5 | 330 |
| 220 | | 6.3×11 | 245 | 6.3×11 | 295 | 8×11.5 | 360 |
| 330 | | 6.3×11 | 295 | 8×11.5 | 360 | 10×12.5 | 625 |
| 470 | | 8×11.5 | 475 | 10×12.5 | 630 | 10×16 | 800 |
| 1000 | | 10×16 | 850 | 10×16 | 860 | 12.5×20 | 1100 |
| 2200 | | 12.5×20 | 1300 | 12.5×20 | 1400 | 16×25 | 2200 |
| 3300 | | 12.5×25 | 1600 | 16×25 | 2200 | 16×30 | 2350 |

| C _r (μF) | U _r (V) | 35 | | 50 | | 63 | | 100 | |
|---------------------|--------------------|---------------|--|---------------|--|---------------|--|---------------|--|
| | | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA |
| 10 | | | | | | | | 6.3×11 | 145 |
| 22 | | | | 6.3×11 | 220 | 6.3×11 | 160 | 8×11.5 | 220 |
| 33 | | | | 6.3×11 | 250 | 6.3×11 | 180 | 8×11.5 | 220 |
| 47 | | 6.3×11 | 260 | 8×11.5 | 330 | 8×11.5 | 260 | 10×12.5 | 270 |
| 100 | | 8×11.5 | 360 | 10×12.5 | 520 | 10×12.5 | 480 | 10×20 | 590 |
| 220 | | 10×12.5 | 625 | 10×20 | 890 | 10×20 | 720 | 12.5×25 | 950 |
| 330 | | 10×16 | 805 | 10×25 | 1100 | 12.5×20 | 900 | 16×25 | 1200 |
| 470 | | 10×20 | 960 | 12.5×20 | 1100 | 16×25 | 1500 | 16×30 | 1500 |
| 1000 | | 12.5×20 | 1340 | 16×25 | 2050 | 16×30 | 1850 | | |
| 2200 | | 16×30 | 2350 | 18×35 | 2700 | | | | |

| C _r (μF) | U _r (V) | 160 | | 200 | | 250 | |
|---------------------|--------------------|---------------|--|---------------|--|---------------|--|
| | | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA |
| 2.2 | | | | 6.3×9 | 40 | 6.3×9 | 50 |
| 2.7 | | | | 6.3×11 | 50 | 6.3×11 | 60 |
| 3.3 | | 6.3×9 | 55 | 8×9 | 65 | 8×9 | 70 |
| 4.7 | | 6.3×11 | 60 | 8×9 | 90 | 8×9 | 105 |
| 5.6 | | 6.3×11 | 65 | 8×9 | 115 | 8×11.5 | 115 |
| 6.8 | | | | | | 10×9 | 115 |
| | | 8×9 | 70 | 8×9 | 125 | 8×11.5 | 130 |
| 8.2 | | | | | | 10×9 | 130 |
| | | 8×9 | 85 | 8×11.5 | 155 | 8×16 | 180 |
| 10 | | | | | | 10×9 | 180 |
| | | 8×11.5 | 180 | 8×16 | 190 | 10×12.5 | 180 |
| 15 | | | | | | 8×16 | 200 |
| | | 8×16 | 260 | 10×12.5 | 265 | 10×16 | 300 |
| 22 | | 8×16 | 320 | 10×16 | 390 | 10×20 | 460 |
| | | 10×16 | 380 | 12.5×20 | 500 | 12.5×20 | 550 |
| 33 | | | | | | 8×40 | 595 |
| | | 12.5×20 | 540 | 16×20 | 680 | 18×20 | 700 |
| 47 | | | | | | 8×50 | 740 |
| | | 8×50 | 710 | 10×50 | 790 | 10×55 | 740 |
| 68 | | 12.5×25 | 650 | 16×25 | 750 | 10×50 | 820 |
| | | 16×20 | 750 | 16×25 | 750 | 16×30 | 820 |
| 82 | | | | | | 12.5×40 | 930 |
| | | 16×20 | 750 | 10×50 | 880 | 18×25 | 930 |
| 100 | | | | | | 16×30 | 900 |
| | | 10×40 | 920 | 16×30 | 1000 | 16×35 | 1070 |
| 150 | | 16×25 | 960 | 18×25 | 1000 | 12.5×50 | 1100 |
| | | 12.5×40 | 990 | 18×30 | 1260 | | |
| 220 | | 16×30 | 990 | 12.5×60 | 1420 | | |
| | | 18×30 | 1400 | | | | |
| | | 12.5×55 | 1500 | | | | |

规格特性表
Table of specifications and characteristics

| C _r (μF) \ U _r (V) | 350 | | 400 | | 450 | |
|--|---------------|--|---------------|--|---------------|--|
| | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA | ΦD×L mm*mm | I _{AC,max} 100KHz 130°C mA |
| 1 | 6.3×9 | 38 | 6.3×9 | 42 | 6.3×11 | 40 |
| 1.5 | 6.3×11 | 50 | 6.3×11 | 50 | 6.3×11 | 48 |
| 1.8 | 6.3×11 | 55 | 6.3×11 | 55 | 8×9 | 52 |
| 2.2 | 8×9 | 60 | 8×9 | 65 | 8×9 | 60 |
| 2.7 | 8×9 | 65 | 8×9 | 70 | 8×9 | 65 |
| 3.3 | 8×11.5 | 75 | 8×11.5 | 80 | 8×11.5 | 70 |
| | | | 10×9 | 80 | 10×9 | 70 |
| 4.7 | 10×9 | 100 | 8×16 | 115 | 8×16 | 85 |
| | 8×16 | 115 | 10×12.5 | 115 | 10×12.5 | 85 |
| 5.6 | 8×16 | 120 | 8×16 | 120 | 10×12.5 | 105 |
| | 10×12.5 | 120 | 10×12.5 | 120 | | |
| 6.8 | 8×16 | 150 | 10×16 | 175 | 10×16 | 140 |
| | 10×12.5 | 150 | | | | |
| 8.2 | 10×16 | 160 | 10×16 | 185 | 10×16 | 150 |
| 10 | 10×16 | 200 | 10×20 | 220 | 10×20 | 200 |
| 15 | 12.5×20 | 330 | 12.5×20 | 350 | 8×40 | 290 |
| | | | | | 12.5×25 | 290 |
| 22 | 12.5×20 | 350 | 8×50 | 440 | 16×25 | 400 |
| | 8×50 | 420 | 16×20 | 440 | | |
| 33 | 10×45 | 500 | 12.5×40 | 590 | 10×50 | 460 |
| | 16×25 | 500 | 16×30 | 590 | 18×25 | 460 |
| 47 | 10×55 | 660 | 18×25 | 670 | 12.5×55 | 620 |
| | 16×30 | 660 | 12.5×45 | 690 | 16×40 | 620 |
| 68 | 12.5×50 | 820 | 18×30 | 830 | 18×35 | 670 |
| | 16×40 | 840 | 12.5×60 | 890 | | |
| 82 | 18×35 | 920 | 18×35 | 930 | 18×40 | 780 |
| 100 | 18×40 | 1030 | 18×40 | 990 | | |

ALUMINIUM ELECTROLYTIC CAPACITORS

SMD

MINIATURE

BI-POLAR

STANDARD

LOW-ESR

HIGH RELIABILITY

SNAP-IN

SCREW