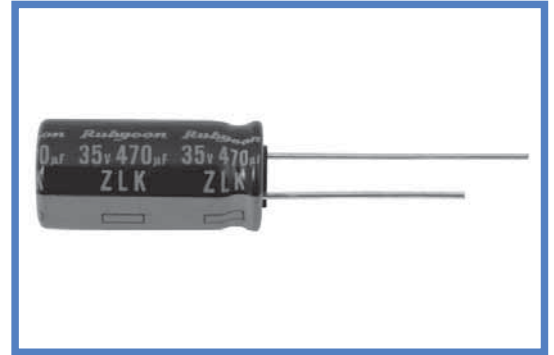


ZLK 系列  
SERIES

105℃ 超高纹波电流 低阻抗品  
105℃ Ultra High Ripple, Low Impedance.

◆特 长 / FEATURES

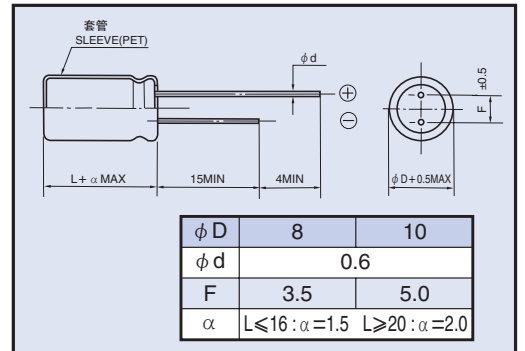
- 105℃、4000~5000小时品。  
Load Life : 105℃ 4000~5000 hours.
- RoHS指令对应品。  
RoHS compliance.



◆规格表 / SPECIFICATIONS

| 项 目 Items                                                                | 特 性 Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                                 |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------|-------------------|-----------------------|-----------------------------------|----------------------------------------------------------|-----------------------|------|--------------------------|---------------------------------------------|-----------------------|------|---|---|---|
| 工作温度范围<br>Category Temperature Range                                     | -40~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                                 |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 额定电压范围<br>Rated Voltage Range                                            | 10~35V.DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                                 |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 静电容量允许差<br>Capacitance Tolerance                                         | ±20% (20℃ , 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                                 |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 漏 电 流<br>Leakage Current (MAX)                                           | I=0.01CV以下 (施加额定电压2分钟后)<br>I=0.01CV (After 2 minutes)<br>I=漏电流 (μA) C=静电容量 (μF) V=额定电压 (V)<br>Leakage Current Capacitance Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                                 |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 损失角正切值<br>(tan δ )<br>Dissipation Factor (MAX)                           | <table><tr><td>额定电压 (V)<br/>Rated Voltage</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>tan δ</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20℃ , 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 额定电压 (V)<br>Rated Voltage           | 10                                              | 16                | 25                    | 35                                | tan δ                                                    | 0.19                  | 0.16 | 0.14                     | 0.12                                        |                       |      |   |   |   |
| 额定电压 (V)<br>Rated Voltage                                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16                                  | 25                                              | 35                |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| tan δ                                                                    | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.16                                | 0.14                                            | 0.12              |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 耐 久 性<br>Endurance                                                       | <p>在105℃环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载右表时间后, 满足以下各项要求。<br/>After life test with rated ripple current at conditions stated in the table below at 105℃, the capacitors shall meet the following requirements.</p> <table><tr><td>静 电 容 量 变 化 率<br/>Capacitance Change</td><td>初期值的±25%以内<br/>Within ±25% of the initial value.</td><td>铝壳尺寸<br/>Case Size</td><td>时间 (hrs)<br/>Life Time</td></tr><tr><td>损 失 角 正 切 值<br/>Dissipation Factor</td><td>规格值的200%以下<br/>Not more than 200% of the specified value.</td><td>8×16, 8×20<br/>10×12.5</td><td>4000</td></tr><tr><td>漏 电 流<br/>Leakage Current</td><td>规格值以下<br/>Not more than the specified value.</td><td>10×16, 10×20<br/>10×25</td><td>5000</td></tr></table> | 静 电 容 量 变 化 率<br>Capacitance Change | 初期值的±25%以内<br>Within ±25% of the initial value. | 铝壳尺寸<br>Case Size | 时间 (hrs)<br>Life Time | 损 失 角 正 切 值<br>Dissipation Factor | 规格值的200%以下<br>Not more than 200% of the specified value. | 8×16, 8×20<br>10×12.5 | 4000 | 漏 电 流<br>Leakage Current | 规格值以下<br>Not more than the specified value. | 10×16, 10×20<br>10×25 | 5000 |   |   |   |
| 静 电 容 量 变 化 率<br>Capacitance Change                                      | 初期值的±25%以内<br>Within ±25% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 铝壳尺寸<br>Case Size                   | 时间 (hrs)<br>Life Time                           |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 损 失 角 正 切 值<br>Dissipation Factor                                        | 规格值的200%以下<br>Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8×16, 8×20<br>10×12.5               | 4000                                            |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 漏 电 流<br>Leakage Current                                                 | 规格值以下<br>Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10×16, 10×20<br>10×25               | 5000                                            |                   |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| 低 温 特 性<br>Low Temperature Stability<br>(阻 抗 比)<br>Impedance Ratio (MAX) | <table><tr><td>额定电压 (V) Rated Voltage</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 额定电压 (V) Rated Voltage              | 10                                              | 16                | 25                    | 35                                | Z(-25℃)/Z(20℃)                                           | 2                     | 2    | 2                        | 2                                           | Z(-40℃)/Z(20℃)        | 3    | 3 | 3 | 3 |
| 额定电压 (V) Rated Voltage                                                   | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16                                  | 25                                              | 35                |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| Z(-25℃)/Z(20℃)                                                           | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                   | 2                                               | 2                 |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |
| Z(-40℃)/Z(20℃)                                                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                                   | 3                                               | 3                 |                       |                                   |                                                          |                       |      |                          |                                             |                       |      |   |   |   |

◆尺寸图 / DIMENSIONS (mm)



◆纹波电流补正系数 /  
MULTIPLIER FOR RIPPLE CURRENT

频率系数 Frequency Coefficient

|                      |      |      |      |        |
|----------------------|------|------|------|--------|
| 频率 (Hz)<br>Frequency | 120  | 1k   | 10k  | 100k ≤ |
| 系 数<br>Coefficient   | 0.30 | 0.70 | 0.90 | 1.00   |

◆标准品一览表 / STANDARD SIZE

Size φ D×L(mm) Ripple current(mA r.m.s./105℃, 100kHz), Impedance(Ω Max/100kHz)

| WV<br>(V.DC) | Cap<br>(µF) | Size<br>(φ D×L) | Ripple | Impedance |       |
|--------------|-------------|-----------------|--------|-----------|-------|
|              |             |                 |        | 20℃       | -10℃  |
| 10<br>(1A)   | 680         | 8×16            | 2050   | 0.059     | 0.18  |
|              | 680         | 10×12.5         | 2190   | 0.053     | 0.16  |
|              | 1000        | 8×20            | 2380   | 0.041     | 0.13  |
|              | 1000        | 10×16           | 2550   | 0.038     | 0.12  |
|              | 1500        | 10×20           | 2880   | 0.028     | 0.084 |
|              | 1800        | 10×25           | 3160   | 0.024     | 0.072 |
| 16<br>(1C)   | 470         | 8×16            | 2050   | 0.059     | 0.18  |
|              | 560         | 10×12.5         | 2190   | 0.053     | 0.16  |
|              | 680         | 8×20            | 2380   | 0.041     | 0.13  |
|              | 820         | 10×16           | 2550   | 0.038     | 0.12  |
|              | 1200        | 10×20           | 2880   | 0.028     | 0.084 |
|              | 1500        | 10×25           | 3160   | 0.024     | 0.072 |
| 25<br>(1E)   | 330         | 8×16            | 2050   | 0.059     | 0.18  |
|              | 390         | 10×12.5         | 2190   | 0.053     | 0.16  |
|              | 470         | 8×20            | 2380   | 0.041     | 0.13  |
|              | 560         | 10×16           | 2550   | 0.038     | 0.12  |
|              | 820         | 10×20           | 2880   | 0.028     | 0.084 |
|              | 1000        | 10×25           | 3160   | 0.024     | 0.072 |
| 35<br>(1V)   | 220         | 8×16            | 2050   | 0.059     | 0.18  |
|              | 220         | 10×12.5         | 2190   | 0.053     | 0.16  |
|              | 270         | 8×20            | 2380   | 0.041     | 0.13  |
|              | 330         | 10×16           | 2550   | 0.038     | 0.12  |
|              | 470         | 10×20           | 2880   | 0.028     | 0.084 |
|              | 560         | 10×25           | 3160   | 0.024     | 0.072 |

◆副记号 / OPTION

| 记号 Code                  |
|--------------------------|
| PET套管 PET Sleeve 无 Blank |

◆产品型号体系 / PART NUMBER

|                              |                       |                            |                                       |                      |                               |                            |
|------------------------------|-----------------------|----------------------------|---------------------------------------|----------------------|-------------------------------|----------------------------|
| □□□<br>额定电压<br>Rated Voltage | ZLK<br>系列名称<br>Series | □□□<br>静电容量<br>Capacitance | M<br>静电容量允许差<br>Capacitance Tolerance | □□□<br>副记号<br>Option | □□□<br>引线加工记号<br>Lead Forming | D × L<br>铝壳尺寸<br>Case Size |
|------------------------------|-----------------------|----------------------------|---------------------------------------|----------------------|-------------------------------|----------------------------|