

GE

- 100KHZ 低阻抗, 105°C 2000 小时
Low impedance at 100KHZ, Load life: 105°C 2000 hours.
- 在高频范围内降低 ESR, 承受高频纹波电流, 适用于电脑主机板。
Enabled high ripple current by a reduction of ESR at high frequency range . Suitable for motherboard.
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

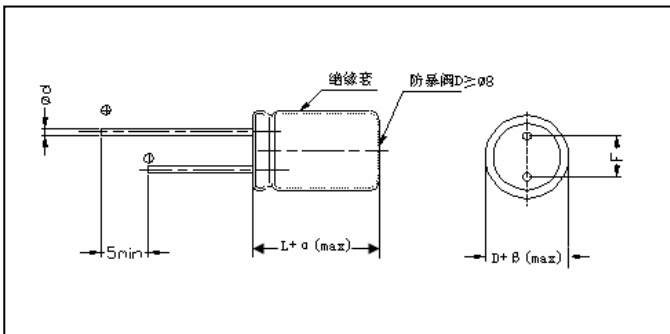
主要技术性能 Specifications

| 项目 Item | 特性 Performance Characteristics | | | | | | | | | | |
|--|--|-----------|------|------|----|----|-----------------|------|------|------|------|
| 使用温度范围 Operating temperature range | -55+105°C | | | | | | | | | | |
| 额定电压范围 Rated voltage range | 6.3 ~ 25V | | | | | | | | | | |
| 标称电容量 Nominal capacitance range | 220 ~ 4700μF | | | | | | | | | | |
| 标称电容量允许偏差 Capacitance tolerance | ± 20% (120Hz, +20°C) | | | | | | | | | | |
| 漏电流 Leakage current | $I \leq 0.01CV$ (μA) 2 分钟(at 20°C, after 2 minutes) | | | | | | | | | | |
| 损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz) | <table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> </tr> </tbody> </table> <p>容量大于 1000μF 者, 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.</p> | U_R (V) | 6.3 | 10 | 16 | 25 | tg δ | 0.22 | 0.19 | 0.16 | 0.14 |
| U_R (V) | 6.3 | 10 | 16 | 25 | | | | | | | |
| tg δ | 0.22 | 0.19 | 0.16 | 0.14 | | | | | | | |
| 温度特性 Temperature Characteristics (Impedance ratio at 120Hz) | <table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> </tr> </tbody> </table> | U_R (V) | 6.3 | 10 | 16 | 25 | Z-40°C / Z+20°C | 8 | 6 | 6 | 4 |
| U_R (V) | 6.3 | 10 | 16 | 25 | | | | | | | |
| Z-40°C / Z+20°C | 8 | 6 | 6 | 4 | | | | | | | |
| 耐久性 Load life | <p>+105°C加额定电压 2000 小时, 恢复 16 小时后: After applying rated voltage for 2000 hours at +105°C and then resumed for 16 hours:</p> <p>电容量变化率 Capacitance change : ±25%初始测量值以内 ±25% of the initial measured value 漏 电 流 Leakage current : ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times of the initial specified value</p> | | | | | | | | | | |
| 高温贮存 Shelf life | <p>+105°C, 1000 小时贮存后, 恢复 16 小时后: After storage for 1000 hours at +105°C and then resumed for 16 hours</p> <p>电容量变化率 Capacitance change : ±25%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤2 倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times of the initial specified value</p> | | | | | | | | | | |

外形图及尺寸表 Case

size table

单位Unit: mm



| | | | | | |
|---|-----|-----|----------|-----|------|
| D | 5 | 6.3 | 8 | 10 | 12.5 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 |
| d | 0.5 | | 0.5, 0.6 | 0.6 | |

| | |
|-------|----------------|
| α MAX | (L < 20) 1.5 |
| | (L ≥ 20) 2.0 |

| | |
|-------|----------------|
| β MAX | (D < 20) 0.5 |
| | (D ≥ 20) 1.0 |

频率修正系数 Frequency coefficient

| | | | | |
|----------------------|------|------|------|------|
| Freq.(Hz) CAP(μF) | 120 | 1K | 10K | 100K |
| 220~4700 | 0.50 | 0.80 | 0.90 | 1.00 |

尺寸 DIMENSIONS

| WV CAP(μF) | | 6.3V(0J) | | | 10V(1A) | | | 16V(1C) | | | 25V(1E) | | |
|---------------|-----|----------|-------|--------|---------|-------|--------|---------|-------|--------|---------|-------|--------|
| | | Size | ESR | Ripple | Size | ESR | Ripple | Size | ESR | Ripple | Size | ESR | Ripple |
| 220 | 221 | | | | | | | 6.3×11 | 0.135 | 520 | 8×11.5 | 0.060 | 760 |
| | | | | | | | | 8×11.5 | 0.102 | 560 | | | |
| 270 | 271 | | | | 8×11.5 | 0.085 | 780 | 6.3×11 | 0.115 | 520 | 8×11.5 | 0.060 | 760 |
| 330 | 331 | | | | | | | | | | 8×11.5 | 0.056 | 780 |
| 470 | 471 | 6.3×11 | 0.095 | 420 | 8×11.5 | 0.046 | 820 | 8×11.5 | 0.052 | 1036 | 8×16 | 0.048 | 1050 |
| | | | | | | | | | | | 10×12.5 | 0.045 | 1072 |
| 680 | 681 | 8×11.5 | 0.058 | 780 | 8×11.5 | 0.043 | 1036 | 8×16 | 0.040 | 1355 | 10×16 | 0.038 | 1200 |
| | | | | | | | | 10×12.5 | 0.038 | 1400 | | | |
| 820 | 821 | 8×11.5 | 0.043 | 1036 | | | | | | | | | |
| 1000 | 102 | 8×11.5 | 0.036 | 1120 | 10×12.5 | 0.034 | 1355 | 8×20 | 0.025 | 1700 | | | |
| | | | | | | | | 10×16 | 0.023 | 1818 | | | |
| 1200 | 122 | 8×16 | 0.034 | 1355 | | | | | | | | | |
| | | 8×20 | 0.032 | 1700 | | | | | | | | | |
| 1500 | 152 | 8×20 | 0.026 | 1700 | 8×20 | 0.025 | 1700 | 10×20 | 0.022 | 2318 | | | |
| | | 10×12.5 | 0.030 | 1400 | 10×16 | 0.028 | 1818 | | | | | | |
| 1800 | 182 | 10×16 | 0.028 | 1818 | 10×20 | 0.025 | 2318 | 10×25 | 0.019 | 2410 | | | |
| 2200 | 222 | 10×20 | 0.025 | 2318 | 10×25 | 0.020 | 2400 | 12.5×20 | 0.018 | 2450 | | | |
| 3300 | 332 | 10×25 | 0.020 | 2545 | | | | | | | | | |
| 4700 | 472 | 10×30 | 0.018 | 2665 | | | | | | | | | |

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Maximum ESR (Ω) at 20°C 100KHz