

RTZ Series (NEW) 引线型铝电解电容器 低阻抗长寿命品

Extra Low ESR And Long Life Aluminum Electrolytic Capacitor of Radial Lead Type



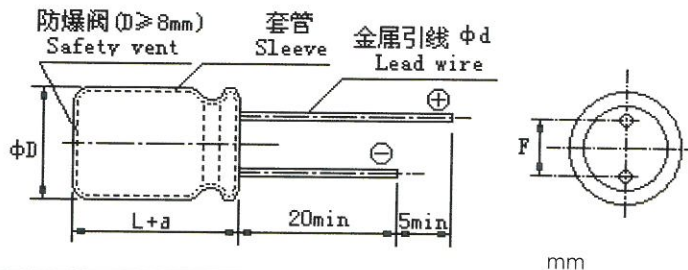
- 体积小, 容量大 • 105°C 3000~10000 小时
- 低阻抗, 长寿命, 符合 RoHS
- Small size, Large capacity • 105°C 3000~10000hours
- Low impedance, Long life, RoHS Compliance



■ 主要技术性能 Specifications

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|--|-----------------|--------------------------------|------------------------------|---|------|----------|-------------------|------|-------|-------|-------|-------|-----------------|--------------------------------|------------------------------|---|---|---|---|---|---|---|---|---|--|
| 使用温度范围 Operating Temperature Range | -40 ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3 ~ 100V DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 标称电容量允许偏差 Capacitance Tolerance | ±20% (M) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流 Leakage Current | I ≤ 0.01CV (μA) 或 3 μA 取较大者 (2 分钟) I ≤ 0.01CV or 3 μA Whichever is greater (after 2 minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损耗角正切值 Dissipation Factor (120Hz 20°C) | <table border="1"> <tr> <td>W.V.</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>tg δ</td> <td>0.22</td> <td>0.19</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> </table> <p>容量大于 1000 μF 者, 每增加 1000 μF, 其损耗角正切值增加 0.02 For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF</p> | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tg δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | | |
| W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | | |
| tg δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | | | | | | | | | | | | | |
| 温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz) | <table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z-25°C/ Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZE40°C/ Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | Z-25°C/ Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | ZE40°C/ Z+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | |
| WV | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | | |
| Z-25°C/ Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| ZE40°C/ Z+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 耐久性 Load Life | <p>在叠加额定纹波电流时, 按照下表给出的寿命时间测试后, 产品性能应符合以下要求: After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤ ± 25% 初始测量值 ≤ ± 25% of Initial value</td> <td rowspan="4"> <table border="1"> <tr> <td>Case Size</td> <td>6.3~10V</td> <td>16~100V</td> </tr> <tr> <td>ΦD=5</td> <td>3000</td> <td>4000</td> </tr> <tr> <td>ΦD=6.3/8</td> <td>4000</td> <td>5000</td> </tr> <tr> <td>ΦD≥10</td> <td>7000</td> <td>10000</td> </tr> </table> </td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 2 倍规定值 ≤ 200% of the specified value</td> </tr> </table> | 电容量变化率 Capacitance Change | ≤ ± 25% 初始测量值 ≤ ± 25% of Initial value | <table border="1"> <tr> <td>Case Size</td> <td>6.3~10V</td> <td>16~100V</td> </tr> <tr> <td>ΦD=5</td> <td>3000</td> <td>4000</td> </tr> <tr> <td>ΦD=6.3/8</td> <td>4000</td> <td>5000</td> </tr> <tr> <td>ΦD≥10</td> <td>7000</td> <td>10000</td> </tr> </table> | Case Size | 6.3~10V | 16~100V | ΦD=5 | 3000 | 4000 | ΦD=6.3/8 | 4000 | 5000 | ΦD≥10 | 7000 | 10000 | 漏电流值 Leakage | ≤ 规定值 ≤ The specified value | 损耗角正切值 Dissipation Factor | ≤ 2 倍规定值 ≤ 200% of the specified value | | | | | | | | | |
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| Case Size | 6.3~10V | | 16~100V | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ΦD=5 | 3000 | | 4000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ΦD=6.3/8 | 4000 | | 5000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ΦD≥10 | 7000 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流值 Leakage | ≤ 规定值 ≤ The specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损耗角正切值 Dissipation Factor | ≤ 2 倍规定值 ≤ 200% of the specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高温贮存 Shelf Life | <p>+105°C, 1000 小时, 然后按 JISC5101-4 第 4.1 项预处理后测量 After storage for 1000 hours at +105°C, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JISC5101-4.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 2 倍规定值 ≤ 200% of the specified value</td> </tr> </table> | | 电容量变化率 Capacitance Change | ≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value | 漏电流值 Leakage | ≤ 规定值 ≤ The specified value | 损耗角正切值 Dissipation Factor | ≤ 2 倍规定值 ≤ 200% of the specified value | | | | | | | | | | | | | | | | | | | | | |
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■ 外形图及尺寸 Case size table



| ΦD ± 0.5 | a: 1.5 | | | a: 2.0 | | |
|-----------|--------|-----|---------|------------|--------|------------|
| | | 5 | 6.3 | 8 | 10 | 12.5 or 13 |
| L | 11 | 11 | 12, 16 | 12, 16, 20 | 20, 25 | 25 |
| F ± 0.5 | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 |
| Φd ± 0.05 | 0.5 | | 0.5/0.6 | 0.6 | 0.8 | |

RTZ Series (NEW)

■ 标称电容量、额定电压、额定纹波电流及外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

| Parameter μF | wv | 6.3V (0J) | | | 10V (1A) | | | 16V (1C) | | | 25V (1E) | | |
|----------------------|-------|-------------------|-------|---------------|-------------------|-------|---------------|-------------------|-------|---------------|-------------------|-------|---------------|
| | | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) |
| 47 | (470) | | | | | | | | | | 5×11 | 210 | 0.58 |
| 100 | (101) | | | | 5×11 | 210 | 0.58 | | | | 6.3×11 | 340 | 0.22 |
| 220 | (221) | 5×11 | 230 | 0.55 | 6.3×11 | 340 | 0.22 | | | | 8×12 | 640 | 0.13 |
| 330 | (331) | 6.3×11 | 340 | 0.22 | 6.3×11 | 420 | 0.15 | 8×12 | 640 | 0.13 | 8×16 | 840 | 0.087 |
| 470 | (471) | 6.3×11 | 380 | 0.20 | 8×12 | 640 | 0.13 | 8×16 | 840 | 0.087 | 10×16 | 1210 | 0.065 |
| 680 | (681) | 8×12 | 640 | 0.13 | 10×12 | 865 | 0.08 | 10×16 | 1210 | 0.060 | 10×20 | 1400 | 0.046 |
| 1000 | (102) | 8×16 | 840 | 0.087 | 10×16 | 1210 | 0.06 | 10×20 | 1400 | 0.046 | 12.5×20 | 1900 | 0.035 |
| 1500 | (152) | 10×20 | 1400 | 0.046 | 10×25 | 1650 | 0.042 | 12.5×20 | 1900 | 0.035 | 12.5×25 | 2230 | 0.027 |
| 2200 | (222) | 10×25 | 1650 | 0.042 | 12.5×20 | 1900 | 0.035 | 12.5×25 | 2230 | 0.027 | 12.5×35 | 2880 | 0.021 |
| 2700 | (272) | - | - | - | - | - | - | 16×20 | 2530 | 0.027 | 16×25 | 2930 | 0.021 |
| 3300 | (332) | 12.5×20 | 1900 | 0.035 | 12.5×25 | 2230 | 0.027 | 12.5×35 | 2880 | 0.022 | | | |
| 4700 | (472) | 12.5×30 | 2650 | 0.025 | 16×25 | 2880 | 0.025 | 16×25 | 2820 | 0.022 | | | |
| 6800 | (682) | 16×25 | 2930 | 0.023 | 16×25 | 2880 | 0.025 | | | | | | |

| Parameter μF | wv | 35V (1V) | | | 50V (1H) | | | 63V (1J) | | | 100V (2A) | | |
|----------------------|-------|-------------------|------------|---------------|-------------------|-------|---------------|-------------------|-------|---------------|-------------------|-------|---------------|
| | | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) | $\Phi D \times L$ | I(mA) | Z(Ω) |
| 22 | (220) | | | | 5×11 | 100 | 1.50 | | | | 6.3×11 | 120 | 1.2 |
| 33 | (330) | | | | 5×11 | 160 | 0.75 | | | | 8×12 | 235 | 0.63 |
| 47 | (470) | 5×11 6.3×11 | 210 280 | 0.58 0.30 | 6.3×11 | 180 | 0.35 | 6.3×11 | 120 | 1.0 | 10×12 | 288 | 0.43 |
| 100 | (101) | 6.3×11 | 340 | 0.22 | 8×12 | 550 | 0.19 | 8×16 | 330 | 0.42 | 10×25 | 531 | 0.20 |
| 150 | (151) | 8×12 | 640 | 0.13 | 10×12 | 750 | 0.15 | 10×16 | 360 | 0.31 | 12.5×20 | 690 | 0.16 |
| 220 | (221) | 8×16 | 870 | 0.087 | 10×16 | 990 | 0.10 | 10×25 | 531 | 0.20 | 16×20 | 1040 | 0.091 |
| 330 | (331) | 10×16 | 1210 | 0.060 | 10×25 | 1435 | 0.06 | 12.5×25 | 784 | 0.12 | | | |
| 470 | (471) | 10×20 | 1400 | 0.046 | 12.5×20 | 1600 | 0.05 | 16×20 | 1040 | 0.095 | | | |
| 1000 | (102) | 12.5×25 | 2230 | 0.027 | 16×25 | 2200 | 0.032 | | | | | | |
| 1500 | (152) | 12.5×35 | 2880 | 0.021 | | | | | | | | | |

I~ 额定纹波电流 Rated ripple current: (mA, 105°C, 100KHz)

Z~ 阻抗值 Impedance: (Ω , 20°C, 100KHz)