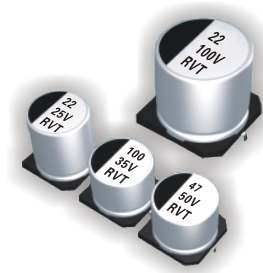


# RVT-VT

宽温品 片式铝电解电容  
Chip Type Aluminum Electrolytic Capacitors



### 产品特点 Features

适用-55℃~+105℃温度范围, 寿命2,000小时; 性能稳定, 可靠性高; 产品直径: φ 4mm~ φ 12.5mm  
-55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability  
The diameter of the product: φ 4mm~ φ 12.5mm

### 主要技术性能 Specifications

| 项目 Items  | 特性 Characteristics  |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
|---|---|---|------------|-----------------------------------|--------------------|-------------|---|-----------------|-------------|---|-----|------------------------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|------------------------|------|----|---|---|---|---|---|---|---|------|----|----|---|---|---|---|---|---|
| 工作温度范围<br>Category Temperature Range                                    | -55℃~+105℃  |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 额定电压范围<br>Rated Voltage Range   | 4~100V.DC   |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 标称电容量范围<br>Nominal Capacitance Range                                    | 1μF ~ 2200 μF   |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 标称电容量允许偏差<br>Nominal Capacitance Tolerance                              | ± 20%(120Hz,+20 °C)   |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 泄漏电流范围<br>Leakage Current(MAX)  | I=0.01CV( μ A) or 3 ( μ A) after 2 minutes<br>I=Leakage Current( μ A)    C=Nominal Capacitance( μ F)    V=Roted Voltage(V)  |   |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 损耗角正切值<br>Dissipation Factor(MAX)<br>Tan δ (20℃,120Hz)                  | <table border="1"> <thead> <tr> <th>Rated Voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tan δ</td> <td>0.35</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>   | Rated Voltage(V)                          | 4          | 6.3                               | 10                 | 16          | 25  | 35              | 50          | 63  | 100 | Tan δ                  | 0.35 | 0.30 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.14 | 0.14 |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Rated Voltage(V)  | 4   | 6.3                                       | 10         | 16                                | 25                 | 35          | 50  | 63              | 100         |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Tan δ   | 0.35  | 0.30                                      | 0.24       | 0.20                              | 0.18               | 0.16        | 0.14                                      | 0.14            | 0.14        |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 耐久性 Load Life   | <p>+105℃施加额定工作电压2000H后, 放置16H, 电容器应满足以下要求。<br/>After applying rated voltage with max ripple current for 2000hrs at 105℃,and then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 30%初始值以内</td> <td>Within ± 30% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200%初始值以内</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 初始规定值</td> <td>Not more than the specified value</td> </tr> </tbody> </table>   | Capacitance Change                        | ± 30%初始值以内 | Within ± 30% of the initial value | Dissipation Factor | ≤ 200%初始值以内 | Not more than 200% of the specified value | Leakage Current | ≤ 初始规定值     | Not more than the specified value         |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Capacitance Change  | ± 30%初始值以内  | Within ± 30% of the initial value         |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Dissipation Factor  | ≤ 200%初始值以内   | Not more than 200% of the specified value |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Leakage Current   | ≤ 初始规定值   | Not more than the specified value         |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 高温贮存 Shelf Life   | <p>+105℃, 贮存1000H后, 放置16H, 电容器应满足以下要求。<br/>After storage for 1000hrs at 105℃, then resumed 16 hours, the capacitors shall meet the following requirements</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 30%初始值以内</td> <td>Within ± 30% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200%初始值以内</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 300%初始值以内</td> <td>Within 300% of initial specified value</td> </tr> </tbody> </table>  | Capacitance Change                        | ± 30%初始值以内 | Within ± 30% of the initial value | Dissipation Factor | ≤ 200%初始值以内 | Not more than 200% of the specified value | Leakage Current | ≤ 300%初始值以内 | Within 300% of initial specified value    |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Capacitance Change  | ± 30%初始值以内  | Within ± 30% of the initial value         |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Dissipation Factor  | ≤ 200%初始值以内   | Not more than 200% of the specified value |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Leakage Current   | ≤ 300%初始值以内   | Within 300% of initial specified value    |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 耐焊接热<br>Resistance to Soldering Heat                                    | <p>在250℃的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求。<br/>The capacitors shall be kept on then hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>± 10%初始值以内</td> <td>Within ± 10% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 初始规定值</td> <td>Not more than the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 初始规定值</td> <td>Not more than the initial specified value</td> </tr> </tbody> </table>  | Capacitance Change                        | ± 10%初始值以内 | Within ± 10% of the initial value | Dissipation Factor | ≤ 初始规定值     | Not more than the initial specified value | Leakage Current | ≤ 初始规定值     | Not more than the initial specified value |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Capacitance Change  | ± 10%初始值以内  | Within ± 10% of the initial value         |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Dissipation Factor  | ≤ 初始规定值   | Not more than the initial specified value |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Leakage Current   | ≤ 初始规定值   | Not more than the initial specified value |            |                                   |                    |             |   |                 |             |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| 低温特性及阻抗比<br>Low Temperature Stability<br>Impedance Ratio (MAX)<br>120Hz | <table border="1"> <thead> <tr> <th>Roted Voltage (V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Z-25℃/Z+20℃<br/>(120Hz)</td> <td>&lt; Φ8</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>≥ Φ8</td> <td>7</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td rowspan="2">Z-40℃/Z+20℃<br/>(120Hz)</td> <td>&lt; Φ8</td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>≥ Φ8</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> | Roted Voltage (V)                         | 4          | 6.3                               | 10                 | 16          | 25  | 35              | 50          | 63  | 100 | Z-25℃/Z+20℃<br>(120Hz) | < Φ8 | 7    | 4    | 3    | 2    | 2    | 2    | 2    | 2    | ≥ Φ8 | 7 | 5 | 4 | 3 | 2 | 2 | 2 | 2 | Z-40℃/Z+20℃<br>(120Hz) | < Φ8 | 15 | 8 | 8 | 4 | 4 | 3 | 3 | 3 | ≥ Φ8 | 15 | 10 | 8 | 6 | 4 | 3 | 3 | 3 |
| Roted Voltage (V)   | 4   | 6.3                                       | 10         | 16                                | 25                 | 35          | 50  | 63              | 100         |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Z-25℃/Z+20℃<br>(120Hz)  | < Φ8  | 7   | 4          | 3                                 | 2                  | 2           | 2   | 2               | 2           |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
|   | ≥ Φ8  | 7   | 5          | 4                                 | 3                  | 2           | 2   | 2               | 2           |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
| Z-40℃/Z+20℃<br>(120Hz)  | < Φ8  | 15  | 8          | 8                                 | 4                  | 4           | 3   | 3               | 3           |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |
|   | ≥ Φ8  | 15  | 10         | 8                                 | 6                  | 4           | 3   | 3               | 3           |   |     |                        |      |      |      |      |      |      |      |      |      |      |   |   |   |   |   |   |   |   |                        |      |    |   |   |   |   |   |   |   |      |    |    |   |   |   |   |   |   |

■ 尺寸图 Dimensions



Fig. 1 (Φ4~Φ10)



Fig. 2 (≥Φ12.5)

单位: mm

| ΦD   | L          | A    | B    | C    | E   | H       | Fig.No. |
|------|------------|------|------|------|-----|---------|---------|
| 4    | 5.4 ± 0.3  | 5.0  | 4.3  | 4.3  | 1.0 | 0.5~0.9 | 1       |
| 5    | 5.4 ± 0.3  | 6.0  | 5.3  | 5.3  | 1.5 | 0.5~0.9 | 1       |
| 6.3  | 5.4 ± 0.3  | 7.2  | 6.6  | 6.6  | 2.1 | 0.5~0.9 | 1       |
| 6.3  | 7.7 ± 0.3  | 7.2  | 6.6  | 6.6  | 2.1 | 0.5~0.9 | 1       |
| 8    | 6.5 ± 0.5  | 9.1  | 8.3  | 8.3  | 3.1 | 0.8~1.1 | 1       |
| 8    | 10.2 ± 0.5 | 9.1  | 8.3  | 8.3  | 3.1 | 0.8~1.1 | 1       |
| 10   | 10.2 ± 0.5 | 11.1 | 10.3 | 10.3 | 4.5 | 0.8~1.1 | 1       |
| 12.5 | 13.5 ± 0.5 | 13.7 | 13.0 | 13.0 | 4.4 | 1.0~1.4 | 2       |

■ 标准品一览表 Standard Size

| V    | 6.3       |     | 10        |     | 16        |     | 25        |     | 35        |     | 50        |      | 63        |     | 100       |     |
|------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|------|-----------|-----|-----------|-----|
| μF   | D×Lmm     | mA  | D×Lmm     | mA  | D×Lmm     | mA  | D×Lmm     | mA  | D×Lmm     | mA  | D×Lmm     | mA   | D×Lmm     | mA  | D×Lmm     | mA  |
| 1    |           |     |           |     |           |     |           |     |           |     | 4×5.4     | 8.0  | 4×5.4     | 7.2 | 4×5.4     | 7.2 |
| 2.2  |           |     |           |     |           |     |           |     |           |     | 4×5.4     | 12   | 4×5.4     | 12  | 6.3×5.4   | 15  |
| 3.3  |           |     |           |     |           |     |           |     | 4×5.4     | 14  | 4×5.4     | 14   | 5×5.4     | 14  | 6.3×5.4   | 22  |
| 4.7  |           |     |           |     |           |     | 4×5.4     | 14  | 4×5.4     | 15  | 4×5.4     | 14   | 5×5.4     | 17  | 6.3×5.4   | 23  |
| 10   |           |     |           |     | 4×5.4     |     | 4×5.4     | 15  | 4×5.4     | 15  | 5×5.4     | 23   | 6.3×5.4   | 41  | 6.3×7.7   | 38  |
|      |           |     |           |     |           |     | 5×5.4     | 21  | 5×5.4     | 22  | 6.3×5.4   | 25   | 6.3×7.7   | 26  |           |     |
| 22   | 4×5.4     | 22  | 4×5.4     | 21  | 4×5.4     | 21  | 5×5.4     | 26  | 5×5.4     | 30  | 6.3×5.4   | 43   | 6.3×7.7   | 53  | 8×10.2    | 90  |
|      |           |     | 5×5.4     | 26  | 5×5.4     | 28  | 6.3×5.4   | 37  | 6.3×5.4   | 40  |           |      | 8×6.5     | 80  |           |     |
| 33   | 4×5.4     | 23  | 4×5.4     | 23  | 5×5.4     | 29  | 5×5.4     | 30  | 6.3×5.4   | 45  | 6.3×7.7   | 63   | 8×10.2    | 116 | 10×10.2   | 136 |
|      | 5×5.4     | 28  | 5×5.4     | 34  |           |     | 6.3×5.4   | 45  | 8×6.5     | 86  |           |      |           |     |           |     |
| 47   | 4×5.4     | 26  | 4×5.4     | 27  | 5×5.4     | 33  | 5×5.4     | 30  | 6.3×5.4   | 54  | 6.3×7.7   | 66   | 8×10.2    | 125 | 10×10.2   | 148 |
|      | 5×5.4     | 34  | 5×5.4     | 31  | 6.3×5.4   | 48  | 8×6.5     | 93  | 6.3×7.7   | 75  |           |      | 10×10.2   | 168 |           |     |
| 100  | 5×5.4     | 40  | 5×5.4     | 40  | 6.3×5.4   | 63  | 6.3×5.4   | 49  | 6.3×5.4   | 45  | 8×10.2    | 146  | 10×10.2   | 200 | 12.5×13.5 | 276 |
|      | 6.3×5.4   | 52  | 6.3×5.4   | 55  | 6.3×7.7   | 72  | 6.3×7.7   | 93  | 8×10.2    | 125 |           |      |           |     |           |     |
| 220  | 6.3×5.4   | 69  | 6.3×5.4   | 78  | 6.3×7.7   | 110 | 6.3×7.7   | 93  | 8×10.2    | 195 | 10×10.2   | 230  | 12.5×13.5 | 380 |           |     |
|      | 6.3×7.7   | 108 | 6.3×7.7   | 110 | 8×6.5     | 110 | 8×10.2    | 183 | 10×10.2   | 230 |           |      |           |     |           |     |
| 330  | 6.3×7.7   | 108 | 6.3×7.7   | 134 | 8×10.2    |     | 8×10.2    | 228 | 10×10.2   | 247 | 12.5×13.5 | 360  |           |     |           |     |
|      |           |     | 8×10.2    | 108 |           |     |           |     |           |     |           |      |           |     |           |     |
| 470  | 6.3×7.7   | 125 | 6.3×7.7   | 160 | 8×10.2    | 240 | 8×10.2    | 228 | 10×10.2   | 286 | 12.5×13.5 | 360  |           |     |           |     |
|      | 8×10.2    | 214 | 8×10.2    | 214 | 10×10.2   | 300 | 10×10.2   | 286 |           |     |           |      |           |     |           |     |
| 680  | 8×10.2    | 214 | 10×10.2   | 277 | 10×10.2   | 322 | 10×13.5   | 400 | 12.5×13.5 | 440 |           |      |           |     |           |     |
|      |           |     |           |     |           |     | 12.5×13.5 | 440 |           |     |           |      |           |     |           |     |
| 1000 | 8×10.2    | 235 | 8×10.2    | 230 | 10×10.2   | 347 | 12.5×13.5 | 500 |           |     | 16×16.5   | 1050 |           |     |           |     |
|      | 10×10.2   | 310 | 10×10.2   | 320 |           |     |           |     |           |     |           |      |           |     |           |     |
| 1500 | 10×10.2   | 320 | 12.5×13.5 | 540 | 12.5×13.5 | 540 |           |     |           |     |           |      |           |     |           |     |
| 2200 | 12.5×13.5 | 600 | 12.5×13.5 | 600 |           |     |           |     |           |     |           |      |           |     |           |     |

mA额定纹波电流 Rated ripple current(mA, 105°C, 120Hz)

■ 纹波电流修正系数 / 频率系数 Multiplier For Ripple Current / Frequency coefficient

| 频率 Frequency   | 50Hz | 120Hz | 300Hz | 1kHz | ≥10kHz |
|----------------|------|-------|-------|------|--------|
| 系数 Coefficient | 0.70 | 1.00  | 1.17  | 1.36 | 1.50   |

注: 以上所提供的设计及特性参数仅供参考, 任何修改不做预先通知, 如在使用上有疑问, 请在采购前与我们联系, 以便提供技术上的协助。

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