



Features

- 6.3 ~ 18 ϕ , 125°C, 1,000 ~ 2,000 hours assured
- Chip type high temperature range, for +125°C use
- For automobile modules and other high temperature applications
- RoHS Compliance



Marking color: Black

SPECIFICATIONS

| Items | Performance | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------------|---|--------------------|------------------------------|--------------------|-----------------------------------|-----------------|------------------------|-------------------|-----------|------|------|------|------|-----------------|-------------------|-----|------|------|---|---|
| Category Temperature Range | -40°C ~ +125°C | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (at 120Hz, 20°C) | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current (at 20°C) | I = 0.03CV or 4 (μA) whichever is greater (after 1 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (Tan δ at 120Hz, 20°C) | <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.32</td> <td>0.24</td> <td>0.21</td> <td>0.18</td> <td>0.15</td> </tr> </tbody> </table> | Rated Voltage | 10 | 16 | 25 | 35 | 50 | Tan δ (max) | 0.32 | 0.24 | 0.21 | 0.18 | 0.15 | | | | | | | | | |
| Rated Voltage | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | |
| Tan δ (max) | 0.32 | 0.24 | 0.21 | 0.18 | 0.15 | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics (at 120Hz) | <p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Impedance</td> <td>Z(-25°C)/Z(+20°C)</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td>Ratio</td> <td>Z(-40°C)/Z(+20°C)</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> </tr> </tbody> </table> | Rated Voltage | | 10 | 16 | 25 | 35 | 50 | Impedance | Z(-25°C)/Z(+20°C) | 6 | 5 | 4 | 3 | 3 | Ratio | Z(-40°C)/Z(+20°C) | 12 | 8 | 6 | 4 | 4 |
| Rated Voltage | | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | |
| Impedance | Z(-25°C)/Z(+20°C) | 6 | 5 | 4 | 3 | 3 | | | | | | | | | | | | | | | | |
| Ratio | Z(-40°C)/Z(+20°C) | 12 | 8 | 6 | 4 | 4 | | | | | | | | | | | | | | | | |
| Endurance | <table border="1"> <tbody> <tr> <td>Test Time</td> <td>1,000 Hrs for $\phi D \leq 8 \times 6.5\text{mm}$ 2,000 Hrs for $\phi D \geq 8 \times 10\text{mm}$</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 300% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 1,000 / 2,000 hours at 125°C.</p> | Test Time | 1,000 Hrs for $\phi D \leq 8 \times 6.5\text{mm}$ 2,000 Hrs for $\phi D \geq 8 \times 10\text{mm}$ | Capacitance Change | Within ±30% of initial value | Dissipation Factor | Less than 300% of specified value | Leakage Current | Within specified value | | | | | | | | | | | | | |
| Test Time | 1,000 Hrs for $\phi D \leq 8 \times 6.5\text{mm}$ 2,000 Hrs for $\phi D \geq 8 \times 10\text{mm}$ | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±30% of initial value | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Less than 300% of specified value | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life Test | <table border="1"> <tbody> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 300% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied.</p> | Test Time | 1,000 Hrs | Capacitance Change | Within ±30% of initial value | Dissipation Factor | Less than 300% of specified value | Leakage Current | Within specified value | | | | | | | | | | | | | |
| Test Time | 1,000 Hrs | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±30% of initial value | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Less than 300% of specified value | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current & Frequency Multipliers | <table border="1"> <thead> <tr> <th rowspan="2">Cap.(μF)</th> <th colspan="4">Freq.(Hz)</th> </tr> <tr> <th>50</th> <th>120</th> <th>1k</th> <th>10k up</th> </tr> </thead> <tbody> <tr> <td>Under 330</td> <td>0.80</td> <td>1.0</td> <td>1.25</td> <td>1.40</td> </tr> <tr> <td>300 < C ≤ 1,000</td> <td>0.85</td> <td>1.0</td> <td>1.20</td> <td>1.30</td> </tr> </tbody> </table> | Cap.(μF) | Freq.(Hz) | | | | 50 | 120 | 1k | 10k up | Under 330 | 0.80 | 1.0 | 1.25 | 1.40 | 300 < C ≤ 1,000 | 0.85 | 1.0 | 1.20 | 1.30 | | |
| Cap.(μF) | Freq.(Hz) | | | | | | | | | | | | | | | | | | | | | |
| | 50 | 120 | 1k | 10k up | | | | | | | | | | | | | | | | | | |
| Under 330 | 0.80 | 1.0 | 1.25 | 1.40 | | | | | | | | | | | | | | | | | | |
| 300 < C ≤ 1,000 | 0.85 | 1.0 | 1.20 | 1.30 | | | | | | | | | | | | | | | | | | |

DIAGRAM OF DIMENSIONS

Fig. 1

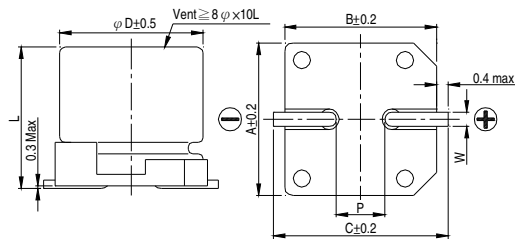
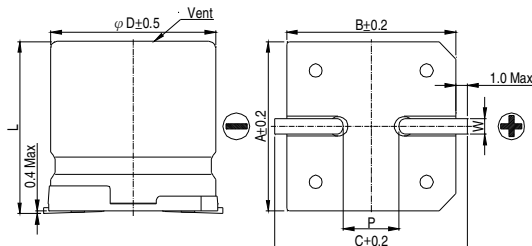


Fig. 2



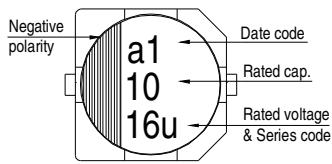
LEAD SPACING AND DIAMETER

Unit: mm

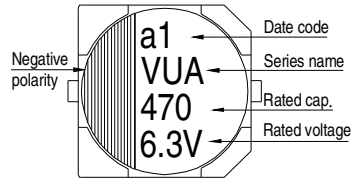
| φD | L | A | B | C | W | P ± 0.2 | Fig. No. |
|------|------------|------|------|------|-----------|---------|----------|
| 6.3 | 5.7±0.3 | 6.6 | 6.6 | 7.4 | 0.5 ~ 0.8 | 2.0 | 1 |
| 6.3 | 7.7 ± 0.3 | 6.6 | 6.6 | 7.4 | 0.5 ~ 0.8 | 2.0 | 1 |
| 8 | 6.5 ± 0.3 | 8.4 | 8.4 | 9.2 | 0.5 ~ 0.8 | 2.3 | 1 |
| 8 | 10 ± 0.5 | 8.4 | 8.4 | 9.2 | 0.7 ~ 1.1 | 3.1 | 1 |
| 10 | 10 ± 0.5 | 10.4 | 10.4 | 11.2 | 0.7 ~ 1.1 | 4.7 | 1 |
| 12.5 | 13.5 ± 0.5 | 13.0 | 13.0 | 15.0 | 1.1 ~ 1.4 | 4.4 | 2 |
| 12.5 | 16 ± 0.5 | 13.0 | 13.0 | 15.0 | 1.1 ~ 1.4 | 4.4 | 2 |
| 16 | 16.5 ± 0.5 | 17.0 | 17.0 | 19.0 | 1.1 ~ 1.4 | 6.4 | 2 |
| 18 | 16.5 ± 0.5 | 19.0 | 19.0 | 21.0 | 1.1 ~ 1.4 | 6.4 | 2 |

MARKING

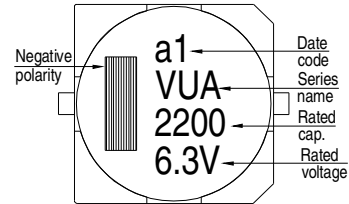
$\phi D = 6.3 \text{ mm}$



$\phi D = 8 \sim 10 \text{ mm}$



$\phi D \geq 12.5 \text{ mm}$



DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 120 Hz, 125°C

| μF | V. DC Contents | 10V (1A) | | 16V (1C) | | 25V (1E) | | 35V (1V) | | 50V (1H) | |
|---------------|-------------------|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|
| | | $\phi D \times L$ | mA | $\phi D \times L$ | mA | $\phi D \times L$ | mA | $\phi D \times L$ | mA | $\phi D \times L$ | mA |
| 22 | 220 | | | | | | | 6.3×5.7 | 50 | 8×6.5 | 75 |
| 33 | 330 | | | 6.3×5.7 | 50 | 6.3×5.7 | 50 | 6.3×7.7 | 70 | 8×10 | 130 |
| 47 | 470 | | | 6.3×7.7 | 70 | 6.3×7.7 | 70 | 8×6.5 | 75 | 8×10 | 130 |
| 68 | 680 | 6.3×5.7 | 50 | 8×6.5 | 75 | 8×6.5 | 75 | 8×10 | 130 | 10×10 | 180 |
| 100 | 101 | 8×6.5 | 75 | 8×6.5 | 75 | 8×10 | 130 | 10×10 | 180 | 12.5×13.5 | 357 |
| 220 | 221 | 8×10 | 130 | 10×10 | 180 | 10×10 | 180 | 12.5×13.5 | 357 | 12.5×16 | 400 |
| 330 | 331 | 8×10 | 130 | 12.5×13.5 | 480 | 12.5×13.5 | 480 | 16×16.5 | 650 | 16×16.5 | 650 |
| 470 | 471 | 12.5×13.5 | 480 | 12.5×13.5 | 480 | 12.5×13.5 | 480 | 16×16.5 | 650 | 16×16.5 | 650 |
| 680 | 681 | 12.5×13.5 | 480 | 12.5×13.5 | 480 | 12.5×16 | 585 | 16×16.5 | 650 | 18×16.5 | 855 |
| 1,000 | 102 | 12.5×16 | 585 | 12.5×16 | 585 | 16×16.5 | 650 | 18×16.5 | 855 | | |
| 1,500 | 152 | 12.5×16 | 585 | 16×16.5 | 650 | 18×16.5 | 855 | | | | |
| 2,200 | 222 | 16×16.5 | 650 | 18×16.5 | 855 | | | | | | |
| 3,300 | 332 | 18×16.5 | 855 | | | | | | | | |
| 4,700 | 472 | 18×16.5 | 855 | | | | | | | | |

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[RST47UF25V035](#) [RST47UF50V038](#) [RST220UF25V019](#) [RSL220UF25V021](#) [XT10UF25V90RV0068](#) [FZ100UF50V90RV0066](#)
[RST100UF16V003](#) [XT100UF10V90RV0060](#)