



- Endurance: 105°C, 3000~5000 hours
- Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Home appliance, OA/HA/Communication,Industrial, Automobile, Meter.
- Corresponding product to RoHS

**Specifications**

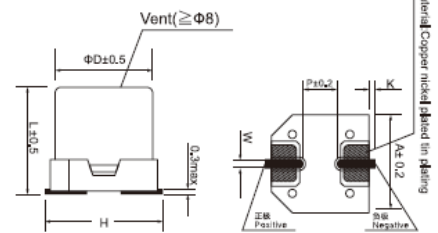
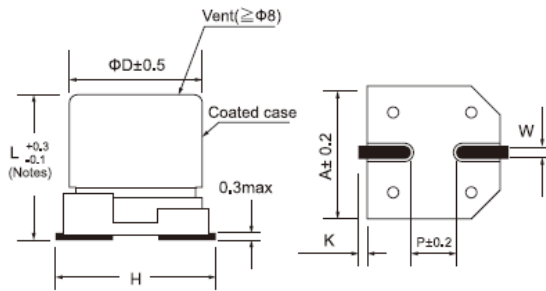
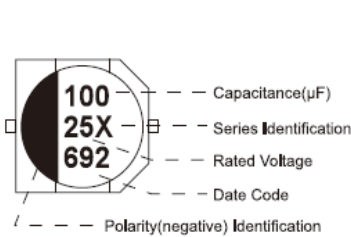
| Item  | Characteristics  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
|---|--|--------------------|----------------------------------|--------------------|---|-----------------|-----------------------------------|----|--------------------|----------------|------|---------|---------|---|---|--------------------|---|---|---|---|---|---|
| Category Temperature Range                      | -55 ~ +105°C   |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Rated Voltage Range                             | 6.3~ 50VDC   |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Rated Capacitance Range                         | 1 ~ 1000 μF  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Capacitance Tolerance                           | ± 20 % at 120Hz, 20°C  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Leakage Current (20°C)                          | $I \leq 0.01CV$ or $3 \mu A$ , whichever is greater. (After rated voltage applied for 2 minutes)<br>I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)   |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Dissipation Factor(MAX) (tan δ) (120Hz, 20°C)   | Shown in the table of standard rating  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Low Temperature Stability Impedance Ratio (MAX) | <table border="1"> <thead> <tr> <th>WV<br/>Z(120HZ)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>   | WV<br>Z(120HZ)     | 6.3                              | 10                 | 16  | 25              | 35                                | 50 | Z(-25°C) / Z(20°C) | 2              | 2    | 2       | 2       | 2 | 2 | Z(-40°C) / Z(20°C) | 3 | 3 | 3 | 3 | 3 | 3 |
| WV<br>Z(120HZ)                                  | 6.3  | 10                 | 16                               | 25                 | 35  | 50              |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Z(-25°C) / Z(20°C)                              | 2  | 2                  | 2                                | 2                  | 2   | 2               |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Z(-40°C) / Z(20°C)                              | 3  | 3                  | 3                                | 3                  | 3   | 3               |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Endurance                                       | <p>After applying rated voltage for 3000~5000hrs at 105°C, Stay back to 20 °C temperature measurement, the capacitors shall meet the following requirements.</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value</td> </tr> <tr> <td>DΦ</td> <td>4x5.4~6.3x7.7</td> <td>8x10.2~10x10.2</td> </tr> <tr> <td>Life</td> <td>3000hrs</td> <td>5000hrs</td> </tr> </tbody> </table> | Capacitance Change | Within ±30% of the initial value | Dissipation Factor | Not more than 200% of the specified value | Leakage Current | Not more than the specified value | DΦ | 4x5.4~6.3x7.7      | 8x10.2~10x10.2 | Life | 3000hrs | 5000hrs |   |   |                    |   |   |   |   |   |   |
| Capacitance Change                              | Within ±30% of the initial value   |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Dissipation Factor                              | Not more than 200% of the specified value  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Leakage Current                                 | Not more than the specified value  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| DΦ  | 4x5.4~6.3x7.7  | 8x10.2~10x10.2     |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Life  | 3000hrs  | 5000hrs            |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |
| Shelf Life                                      | After placed at 105°C without voltage applied for 1000 hours, Stay back to 20 °C temperature measurement, the capacitor shall meet the same requirement as Endurance.  |                    |                                  |                    |   |                 |                                   |    |                    |                |      |         |         |   |   |                    |   |   |   |   |   |   |

**MARKING**

**Dimensions [mm]**

● General structure

● Vibration resistant structure



( Notes ) Φ8 ~ Φ10&6.3X7.7=L±0.3

| Dimensions | ΦD   | L    | A    | H        | W        | P   | K              |
|------------|------|------|------|----------|----------|-----|----------------|
| B01        | 4.0  | 5.4  | 4.3  | 5.5 Max  | 0.65±0.1 | 1.0 | 0.35+0.15/-0.2 |
| C01        | 5.0  | 5.4  | 5.3  | 6.5 Max  | 0.65±0.1 | 1.5 | 0.35+0.15/-0.2 |
| E01        | 6.3  | 5.4  | 6.6  | 7.8 Max  | 0.65±0.1 | 1.8 | 0.35+0.15/-0.2 |
| E04        | 6.3  | 7.7  | 6.6  | 7.8 Max  | 0.65±0.1 | 1.8 | 0.35+0.15/-0.2 |
| G02        | 8.0  | 6.2  | 8.3  | 9.5 Max  | 0.65±0.1 | 2.2 | 0.35+0.15/-0.2 |
| G03        | 8.0  | 10.2 | 8.3  | 10.0 Max | 0.90±0.2 | 3.1 | 0.70±0.20      |
| H03        | 10.0 | 10.2 | 10.3 | 12.0 Max | 0.90±0.2 | 4.6 | 0.70±0.20      |

**Multiplier for Ripple Current**

| Frequency (Hz) | 120  | 1K   | 10K  | 100K |
|----------------|------|------|------|------|
| Coefficient    | 0.70 | 0.80 | 0.90 | 1.00 |

■ STANDARD RATINGS

| Rated Voltage (SurageVoltage) (V) | Cap (μF) | Case size Φ DxL(mm) | tan δ   | Ripple current (mA/rms 105°C 100KHz) | Impedance (Ω,20°C) (100KHz) | Rated Voltage (SurageVoltage) (V) | Cap (μF) | Case size Φ DxL(mm) | tan δ   | Ripple current (mA/rms 105°C 100KHz) | Impedance (Ω,20°C) (100KHz) |         |      |      |
|-----------------------------------|----------|---------------------|---------|--------------------------------------|-----------------------------|-----------------------------------|----------|---------------------|---------|--------------------------------------|-----------------------------|---------|------|------|
| 6.3 (8)                           | 22       | 4x5.4               | 0.26    | 90                                   | 1.93                        | 16 (20)                           | 470      | 8x10.2              | 0.16    | 600                                  | 0.16                        |         |      |      |
|                                   | 33       | 4x5.4               | 0.26    | 90                                   | 1.93                        |                                   |          | 10x10.2             | 0.16    | 850                                  | 0.12                        |         |      |      |
|                                   | 47       | 5x5.4               | 0.26    | 160                                  | 1.00                        |                                   |          | 680                 | 10x10.2 | 0.16                                 | 850                         | 0.12    |      |      |
|                                   | 10 (13)  | 100                 | 6.3x5.4 | 0.26                                 | 240                         | 0.52                              | 35 (44)  | 47                  | 4.7     | 4x5.4                                | 0.12                        | 90      | 1.93 |      |
|                                   |          | 150                 | 6.3x7.7 | 0.26                                 | 240                         | 0.30                              |          |                     | 10      | 5x5.4                                | 0.12                        | 160     | 1.00 |      |
|                                   |          | 220                 | 6.3x5.4 | 0.26                                 | 240                         | 0.52                              |          |                     | 15      | 5x5.4                                | 0.12                        | 160     | 1.00 |      |
|                                   |          |                     | 6.3x7.7 | 0.26                                 | 240                         | 0.30                              |          |                     | 22      | 5x5.4                                | 0.12                        | 160     | 1.00 |      |
|                                   |          |                     | 8x10.2  | 0.26                                 | 600                         | 0.26                              |          |                     | 33      | 6.3x5.4                              | 0.12                        | 240     | 0.52 |      |
|                                   |          | 330                 | 8x10.2  | 0.26                                 | 600                         | 0.16                              |          |                     | 50 (63) | 100                                  | 6.3x5.4                     | 0.12    | 240  | 0.52 |
|                                   |          | 470                 | 8x10.2  | 0.26                                 | 600                         | 0.16                              |          |                     |         |                                      | 6.3x7.7                     | 0.12    | 280  | 0.34 |
| 680                               |          | 10x10.2             | 0.26    | 850                                  | 0.12                        | 8x6.2                             |          |                     |         |                                      | 0.12                        | 300     | 0.26 |      |
|                                   |          | 10x10.2             | 0.26    | 850                                  | 0.12                        | 8x10.2                            |          |                     |         |                                      | 0.12                        | 280     | 0.34 |      |
| 16 (20)                           |          | 22                  | 4x5.4   | 0.19                                 | 90                          | 1.93                              |          |                     |         |                                      | 68                          | 6.3x7.7 | 0.12 | 280  |
|                                   | 33       | 5x5.4               | 0.19    | 160                                  | 1.00                        | 150                               |          |                     |         |                                      | 6.3x7.7                     | 0.12    | 230  | 0.40 |
|                                   | 47       | 6.3x5.4             | 0.19    | 190                                  | 0.52                        |                                   |          |                     |         |                                      | 8x10.2                      | 0.12    | 600  | 0.16 |
|                                   | 100      | 6.3x5.4             | 0.19    | 190                                  | 0.52                        |                                   |          |                     |         |                                      | 10x10.2                     | 0.12    | 670  | 0.16 |
|                                   |          | 6.3x7.7             | 0.19    | 190                                  | 0.52                        | 220                               |          |                     |         |                                      | 8x10.2                      | 0.12    | 600  | 0.16 |
|                                   | 150      | 6.3x5.4             | 0.19    | 190                                  | 0.52                        |                                   | 8x10.2   | 0.12                |         |                                      | 850                         | 0.12    |      |      |
|                                   |          | 6.3x7.7             | 0.19    | 240                                  | 0.34                        | 10x10.2                           | 0.12     | 850                 | 0.12    |                                      |                             |         |      |      |
|                                   | 220      | 6.3x7.7             | 0.19    | 240                                  | 0.34                        | 330                               | 10x10.2  | 0.12                | 850     | 0.12                                 |                             |         |      |      |
|                                   |          | 8x6.2               | 0.19    | 240                                  | 0.34                        |                                   | 1        | 4x5.4               | 0.12    | 60                                   | 5.00                        |         |      |      |
|                                   | 6.3 (8)  | 8x10.2              | 0.19    | 600                                  | 0.16                        | 2.2                               | 4x5.4    | 0.12                | 60      | 5.00                                 |                             |         |      |      |
| 330                               |          | 8x10.2              | 0.19    | 600                                  | 0.16                        | 3.3                               | 4x5.4    | 0.12                | 60      | 5.00                                 |                             |         |      |      |
| 470                               |          | 8x10.2              | 0.19    | 600                                  | 0.16                        | 4.7                               | 5x5.4    | 0.12                | 95      | 4.00                                 |                             |         |      |      |
|                                   |          | 10x10.2             | 0.19    | 850                                  | 0.12                        | 10                                | 6.3x5.4  | 0.12                | 140     | 2.60                                 |                             |         |      |      |
| 680                               |          | 10x10.2             | 0.19    | 850                                  | 0.12                        | 22                                | 6.3x5.4  | 0.12                | 70      | 2.00                                 |                             |         |      |      |
|                                   |          | 10x10.2             | 0.19    | 850                                  | 0.12                        |                                   | 6.3x7.7  | 0.12                | 230     | 1.30                                 |                             |         |      |      |
| 10 (13)                           |          | 10                  | 4x5.4   | 0.16                                 | 90                          | 1.93                              | 33       | 8x10.2              | 0.12    | 350                                  | 0.50                        |         |      |      |
|                                   |          | 22                  | 5x5.4   | 0.16                                 | 160                         | 1.00                              | 47       | 6.3x7.7             | 0.12    | 230                                  | 1.30                        |         |      |      |
|                                   |          | 33                  | 6.3x5.4 | 0.16                                 | 240                         | 0.52                              |          | 8x10.2              | 0.12    | 350                                  | 0.50                        |         |      |      |
|                                   |          | 47                  | 5x5.4   | 0.16                                 | 160                         | 1.00                              |          | 10x10.2             | 0.12    | 670                                  | 0.34                        |         |      |      |
|                                   | 6.3x5.4  |                     | 0.16    | 240                                  | 0.52                        | 68                                | 8x10.2   | 0.12                | 350     | 0.50                                 |                             |         |      |      |
|                                   | 100      | 6.3x5.4             | 0.16    | 240                                  | 0.52                        |                                   | 10x10.2  | 0.12                | 670     | 0.34                                 |                             |         |      |      |
|                                   |          | 6.3x7.7             | 0.16    | 280                                  | 0.34                        | 100                               | 8x10.2   | 0.12                | 350     | 0.50                                 |                             |         |      |      |
|                                   | 8x10.2   | 0.16                | 300     | 0.29                                 | 10x10.2                     |                                   | 0.12     | 670                 | 0.34    |                                      |                             |         |      |      |
|                                   | 150      | 6.3x7.7             | 0.16    | 280                                  | 0.34                        | 150                               | 8x10.2   | 0.12                | 350     | 0.50                                 |                             |         |      |      |
|                                   |          | 8x10.2              | 0.16    | 370                                  | 0.22                        |                                   | 10x10.2  | 0.12                | 670     | 0.34                                 |                             |         |      |      |
| 220                               | 8x10.2   | 0.16                | 370     | 0.22                                 | 220                         | 10x10.2                           | 0.12     | 670                 | 0.34    |                                      |                             |         |      |      |
|                                   | 330      | 8x10.2              | 0.16    | 600                                  |                             | 0.16                              | 10x10.2  | 0.12                | 670     | 0.34                                 |                             |         |      |      |

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