

SSV SERIES
85°C 4.6mm MAX Height, Lead Free Reflow Soldering.
◆FEATURES

- Case Dia $\phi 4 \sim \phi 6.3\text{mm}$.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

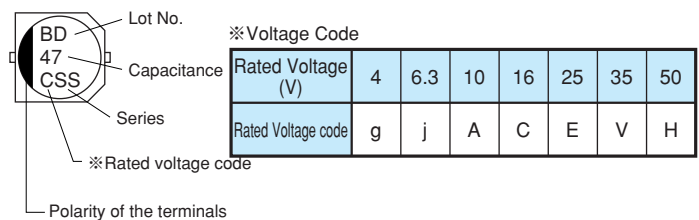

◆SPECIFICATIONS

| Items | 特 性 | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------------|---|--------------------|--|-----------------|------------------------------------|----|----|--|------|------|------|------|------|------|------|--|----|---|---|---|---|---|---|
| Category Temperature Range | | $-40 \sim +85^{\circ}\text{C}$ | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | | 4~50V.DC | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | | $\pm 20\%$ (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | $I=0.01CV$ or $3\mu\text{A}$ whichever is greater. | (After 2 minutes application of rated voltage) I =Leakage Current(μA) C =Rated Capacitance(μF) V =Rated Voltage(V) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) ($\tan \delta$) | | <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> </tr> </thead> <tbody> <tr> <td>$\tan \delta$</td> <td>0.45</td> <td>0.30</td> <td>0.24</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table> (20°C, 120Hz) | Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | $\tan \delta$ | 0.45 | 0.30 | 0.24 | 0.19 | 0.16 | 0.14 | 0.14 | | | | | | | | |
| Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | |
| $\tan \delta$ | 0.45 | 0.30 | 0.24 | 0.19 | 0.16 | 0.14 | 0.14 | | | | | | | | | | | | | | | | | | | |
| Endurance | | After applying rated voltage with rated ripple current for 1000 hrs at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within $\pm 25\%$ of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 250% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table> | Capacitance Change | Within $\pm 25\%$ of the initial value. | Dissipation Factor | Not more than 250% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within $\pm 25\%$ of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 250% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | | <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> </tr> </thead> <tbody> <tr> <td>$Z(-25^{\circ}\text{C})/Z(20^{\circ}\text{C})$</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z(-40^{\circ}\text{C})/Z(20^{\circ}\text{C})$</td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> (120Hz) | Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | $Z(-25^{\circ}\text{C})/Z(20^{\circ}\text{C})$ | 7 | 4 | 3 | 2 | 2 | 2 | 2 | $Z(-40^{\circ}\text{C})/Z(20^{\circ}\text{C})$ | 15 | 8 | 8 | 4 | 4 | 3 | 3 |
| Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | |
| $Z(-25^{\circ}\text{C})/Z(20^{\circ}\text{C})$ | 7 | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| $Z(-40^{\circ}\text{C})/Z(20^{\circ}\text{C})$ | 15 | 8 | 8 | 4 | 4 | 3 | 3 | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k \leq |
|-----------------------|--------|------|------|------|------------|
| Coefficient | | | | | |
| 0.1~1 μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2~4.7 μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~47 μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| 100~220 μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

◆MARKING

◆PART NUMBER

| | | | | | |
|---------------|--------|-------------------|-----------------------|--------|-----------|
| □□□ | SSV | □□□□□ | □ | □□□ | DXL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Case Size |

