

SKV SERIES**105°C Standard**

• Load Life : 105°C 1000 hours.

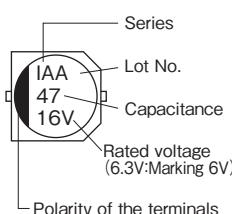
RoHS
compliance

**◆SPECIFICATIONS**

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------|------|------|------|------|------|------------------------|--|--------------------|---|-----------------|------------------------------------|----|------------------|---------|------|------|------|------|------|------------------|---|---------|------|------|------|------|------|------|
| Category Temperature Range | −55~+105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(20°C,120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> <tr> <td>tanδ</td> <td>φ4~φ6.3</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> <tr> <td></td> <td>φ8, φ10</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> (20°C,120Hz) | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | tanδ | φ4~φ6.3 | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | | φ8, φ10 | 0.35 | 0.26 | 0.20 | 0.16 | 0.14 | 0.12 |
| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| tanδ | φ4~φ6.3 | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | |
| | φ8, φ10 | 0.35 | 0.26 | 0.20 | 0.16 | 0.14 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | <p>After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value. (φ8,10:±25%)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value. (φ8,10:200%)</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | | | | | | | Capacitance Change | Within ±30% of the initial value. (φ8,10:±25%) | Dissipation Factor | Not more than 300% of the specified value. (φ8,10:200%) | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±30% of the initial value. (φ8,10:±25%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 300% of the specified value. (φ8,10:200%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </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> </tr> <tr> <td>Z(−40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table> (120Hz) | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | Z(−25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | Z(−40°C)/Z(20°C) | 8 | 8 | 4 | 4 | 3 | 3 | | |
| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(−25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(−40°C)/Z(20°C) | 8 | 8 | 4 | 4 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

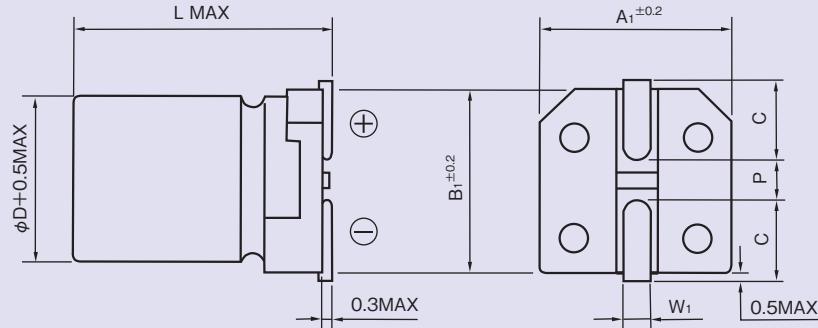
| | Frequency(Hz) | 60(50) | 120 | 500 | 1k | 10k≤ |
|-------------|---------------|--------|------|------|------|------|
| Coefficient | 0.47~1μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 2.2~4.7μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 10~47μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100~1000μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

◆MARKING**◆PART NUMBER**

□□□ SKV
Rated Voltage Series □□□□□ Capacitance □ Capacitance Tolerance □□□ Option D×L
 Case Size

◆ DIMENSIONS

(mm)



| ϕD | L | A1 | B1 | C | W1 | P |
|----------|------|------|------|-----|---------|-----|
| 4 | 5.5 | 4.3 | 4.3 | 1.8 | 0.5~0.8 | 1.0 |
| 5 | 5.5 | 5.3 | 5.3 | 2.2 | 0.5~0.8 | 1.3 |
| 6.3 | 5.5 | 6.6 | 6.6 | 2.7 | 0.5~0.8 | 1.8 |
| 8 | 6.5 | 8.3 | 8.3 | 3.4 | 0.5~0.8 | 2.2 |
| 8 | 10.5 | 8.3 | 8.3 | 2.9 | 0.8~1.1 | 3.1 |
| 10 | 10.5 | 10.3 | 10.3 | 3.2 | 0.8~1.1 | 4.5 |

◆STANDARD SIZE

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)