

JKV SERIES
105°C Standard, High Temperature Reflow Soldering.
◆ FEATURES

- Load Life : 105°C 1000 hours.
- High Temperature reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

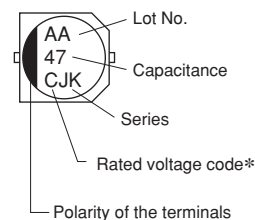

◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|---|--------------------|---|-----------------|------------------------------------|----|------------------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|
| Category Temperature Range | -55 ~ +105°C | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50V.DC | | | | | | | | | | | | | | | | | | | | | |
| 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=Rated Capacitance(μF) V=Rated Voltage(V) | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</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>φ 4~φ 6.3</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>φ 8, φ 10</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> </tbody> </table> (20°C, 120Hz) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | φ 4~φ 6.3 | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | φ 8, φ 10 | 0.35 | 0.26 | 0.20 | 0.16 | 0.14 | 0.12 |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | |
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| φ 8, φ 10 | 0.35 | 0.26 | 0.20 | 0.16 | 0.14 | 0.12 | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <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> </tbody> </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. | | | | | | | | | | | | | | | |
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| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</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>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> </tbody> </table> (120Hz) | Rated Voltage (V) | 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 (V) | 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 coefficient

| Frequency (Hz) | | 60(50) | 120 | 500 | 1k | 10k ≤ |
|----------------|------------|--------|------|------|------|-------|
| Coefficient | 0.1~1μF | 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


*Voltage Code

| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
|--------------------|-----|----|----|----|----|----|
| Rated Voltage code | j | A | C | E | V | H |

◆ PART NUMBER

| | | | | | |
|---------------|--------|-------------------|-----------------------|--------|-----------|
| □□□ | JKV | □□□□□ | □ | □□□ | DxL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Case Size |

