

Jamicon Series : CK

Teapo Series : PV Low Impedance Series

■ Endurance:105°C, 1000~2000 hours

■ Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Battery charger,DC/DC converter,SN

■ Corresponding product to RoHS



Jamicon



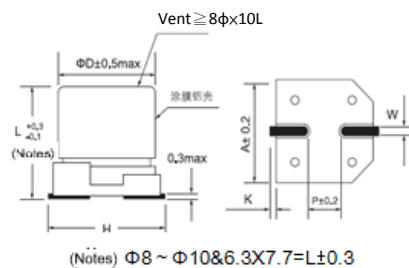
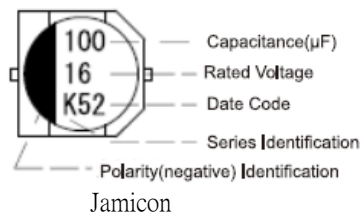
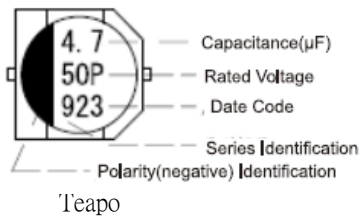
Teapo

Specifications

| Item | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|----|---------------|----------------|------|---------|---------|-----|----|----|----|----|----|--------------------|---|---|---|---|---|---|--------------------|---|---|---|---|---|---|
| Category Temperature Range | -55 ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~ 50VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Capacitance Range | 4.7 ~ 1500 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) 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 rowspan="3">WV Z(120HZ)</th> <th colspan="6">WV</th> </tr> <tr> <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(-40°C) / Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C) / Z(20°C)</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> | WV Z(120HZ) | WV | | | | | | 6.3 | 10 | 16 | 25 | 35 | 50 | Z(-40°C) / Z(20°C) | 3 | 2 | 2 | 2 | 2 | 2 | Z(-55°C) / Z(20°C) | 5 | 4 | 4 | 3 | 3 | 3 |
| WV Z(120HZ) | WV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.3 | | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | |
| | Z(-40°C) / Z(20°C) | 3 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Z(-55°C) / Z(20°C) | 5 | 4 | 4 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage for 1000~2000hrs at 105°C,Stay back to 20 °C temperature measurement,the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance Change | Within ±25% of the initial value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dissipation Factor | Not more than 200% of the specified value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leakage Current | Not more than the specified value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>DΦ</td> <td>4x5.4~6.3x7.7</td> <td>8x10.2~10x10.2</td> </tr> <tr> <td>Life</td> <td>1000hrs</td> <td>2000hrs</td> </tr> </table> | | DΦ | 4x5.4~6.3x7.7 | 8x10.2~10x10.2 | Life | 1000hrs | 2000hrs | | | | | | | | | | | | | | | | | | | | |
| DΦ | 4x5.4~6.3x7.7 | 8x10.2~10x10.2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Life | 1000hrs | 2000hrs | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4. | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MARKING

Dimensions [mm]



| 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 | 2.1 | 0.35+0.15/-0.2 |
| E04 | 6.3 | 7.7 | 6.6 | 7.8 Max | 0.65±0.1 | 2.1 | 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 |

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■ STANDARD RATINGS

| Rated Voltage (Surage Voltage) (V) | Cap (μF) | Case size ΦDxL(mm) | tan δ | Ripple current (mA/rms (100KHz)) | Impedance (Ω,20℃) (100KHz) | Rated Voltage (Surage Voltage) (V) | Cap (μF) | Case size ΦDxL(mm) | tan δ | Ripple current (mA/rms (100KHz)) | Impedance (Ω,20℃) (100KHz) |
|------------------------------------|----------|--------------------|-------|----------------------------------|----------------------------|------------------------------------|----------|--------------------|-------|----------------------------------|----------------------------|
| 6.3(8) | 27 | 4x5.4 | 0.24 | 90 | 1.45 | 25(32) | 10 | 4x5.4 | 0.14 | 90 | 1.45 |
| | 33 | 5x5.4 | 0.24 | 170 | 0.70 | | 15 | 5x5.4 | 0.14 | 170 | 0.70 |
| | 47 | 5x5.4 | 0.24 | 170 | 0.70 | | 22 | 5x5.4 | 0.14 | 170 | 0.70 |
| | 56 | 5x5.4 | 0.24 | 170 | 0.70 | | 27 | 6.3x5.4 | 0.14 | 250 | 0.39 |
| | 68 | 6.3x5.4 | 0.24 | 250 | 0.39 | | 33 | 6.3x5.4 | 0.14 | 250 | 0.44 |
| | 100 | 6.3x5.4 | 0.24 | 250 | 0.39 | | 47 | 6.3x5.4 | 0.14 | 250 | 0.39 |
| | 150 | 6.3x5.4 | 0.24 | 250 | 0.39 | | 56 | 6.3x5.4 | 0.14 | 250 | 0.39 |
| | 220 | 6.3x5.4 | 0.24 | 250 | 0.39 | | 68 | 6.3x5.4 | 0.14 | 250 | 0.39 |
| | 330 | 6.3x7.7 | 0.24 | 300 | 0.30 | | 100 | 6.3x7.7 | 0.14 | 300 | 0.30 |
| | 470 | 8x10.2 | 0.28 | 600 | 0.15 | | 150 | 8x10.2 | 0.16 | 600 | 0.15 |
| | 680 | 8x10.2 | 0.28 | 600 | 0.15 | | 220 | 8x10.2 | 0.16 | 600 | 0.15 |
| | 1000 | 8x10.2 | 0.28 | 600 | 0.15 | | 330 | 8x10.2 | 0.16 | 600 | 0.15 |
| | 1500 | 10x10.2 | 0.28 | 850 | 0.08 | | 470 | 10x10.2 | 0.16 | 850 | 0.08 |
| 10(13) | 22 | 4x5.4 | 0.20 | 90 | 1.45 | 35(44) | 4.7 | 4x5.4 | 0.12 | 90 | 1.45 |
| | 27 | 5x5.4 | 0.20 | 170 | 0.70 | | 10 | 5x5.4 | 0.12 | 170 | 0.70 |
| | 33 | 5x5.4 | 0.20 | 170 | 0.70 | | 15 | 5x5.4 | 0.12 | 170 | 0.70 |
| | 47 | 6.3x5.4 | 0.20 | 250 | 0.39 | | 22 | 5x5.4 | 0.12 | 170 | 0.70 |
| | 56 | 6.3x5.4 | 0.20 | 250 | 0.39 | | 27 | 6.3x5.4 | 0.12 | 250 | 0.39 |
| | 68 | 6.3x5.4 | 0.20 | 250 | 0.39 | | 33 | 6.3x5.4 | 0.12 | 250 | 0.39 |
| | 100 | 6.3x5.4 | 0.20 | 250 | 0.39 | | 47 | 6.3x5.4 | 0.12 | 250 | 0.39 |
| | 150 | 6.3x5.4 | 0.20 | 250 | 0.39 | | 56 | 6.3x7.7 | 0.12 | 300 | 0.30 |
| | 220 | 6.3x7.7 | 0.20 | 300 | 0.30 | | 68 | 6.3x7.7 | 0.12 | 300 | 0.30 |
| | 330 | 8x10.2 | 0.24 | 600 | 0.15 | | 100 | 8x10.2 | 0.14 | 600 | 0.15 |
| | 470 | 8x10.2 | 0.24 | 600 | 0.15 | | 150 | 8x10.2 | 0.14 | 600 | 0.15 |
| | 680 | 10x10.2 | 0.24 | 850 | 0.08 | | 220 | 8x10.2 | 0.14 | 600 | 0.15 |
| | 1000 | 10x10.2 | 0.24 | 850 | 0.08 | | 330 | 10x10.2 | 0.14 | 850 | 0.08 |
| 16(20) | 15 | 4x5.4 | 0.16 | 90 | 1.45 | 50(63) | 4.7 | 4x5.4 | 0.12 | 64 | 2.55 |
| | 22 | 5x5.4 | 0.16 | 170 | 0.70 | | 10 | 6.3x5.4 | 0.12 | 215 | 0.52 |
| | 27 | 5x5.4 | 0.16 | 150 | 0.76 | | 15 | 6.3x5.4 | 0.12 | 215 | 0.52 |
| | 33 | 6.3x5.4 | 0.16 | 250 | 0.44 | | 22 | 6.3x5.4 | 0.12 | 215 | 0.52 |
| | 47 | 6.3x5.4 | 0.16 | 250 | 0.39 | | 27 | 6.3x7.7 | 0.12 | 243 | 0.44 |
| | 56 | 6.3x5.4 | 0.16 | 250 | 0.39 | | 33 | 6.3x7.7 | 0.12 | 243 | 0.44 |
| | 68 | 6.3x5.4 | 0.16 | 250 | 0.39 | | 47 | 6.3x7.7 | 0.12 | 243 | 0.44 |
| | 100 | 6.3x5.4 | 0.16 | 250 | 0.39 | | 56 | 8x10.2 | 0.14 | 400 | 0.22 |
| | 150 | 6.3x7.7 | 0.16 | 300 | 0.30 | | 68 | 8x10.2 | 0.14 | 400 | 0.22 |
| | 220 | 6.3x7.7 | 0.16 | 300 | 0.30 | | 100 | 8x10.2 | 0.14 | 400 | 0.22 |
| | 330 | 8x10.2 | 0.20 | 600 | 0.15 | | 150 | 10x10.2 | 0.14 | 585 | 0.13 |
| | 470 | 8x10.2 | 0.20 | 600 | 0.15 | | 220 | 10x10.2 | 0.14 | 585 | 0.13 |
| | 680 | 10x10.2 | 0.20 | 850 | 0.08 | | | | | | |