

# SMD Aluminum Electrolytic Capacitor – JCC

## FEATURES

- > Low leakage current (0.5~3.3μA Max.)
- > 105°C 2,000hours Solvent proof (within 2 minutes)



## SPECIFICATIONS

Operating Temperature: -40°C ~ +105°C  
 Voltage Range: 6.3V ~ 50V.DC  
 Capacitance Tolerance: ±20% at 120Hz, 20°C  
 Leakage Current: The greater value of either 0.002CV or 0.5μA (μA/after 2minutes (max))  
 Dissipation Factor (Tan δ): Measurement Frequency: 120Hz, Temperature: 20°C

|                   |      |      |      |      |      |      |
|-------------------|------|------|------|------|------|------|
| Rated Voltage (V) | 6.3  | 10   | 16   | 25   | 35   | 50   |
| Surge Voltage (V) | 8.0  | 13   | 20   | 32   | 44   | 63   |
| Tan δ (Max.)      | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.12 |

Impedance ratio at Low temperature

Based on the value at 120Hz, +20°C

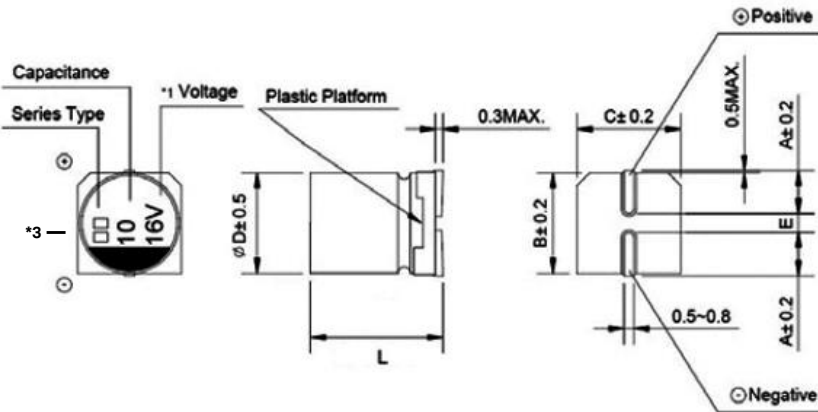
|                   |                     |     |    |    |            |
|-------------------|---------------------|-----|----|----|------------|
| Rated Voltage (V) |                     | 6.3 | 10 | 16 | 25, 35, 50 |
| Impedance Ratio   | Z (-25°C) / Z(20°C) | 4   | 3  | 2  | 2          |
| ZT / Z20 (Max.)   | Z (-40°C) / Z(20°C) | 10  | 7  | 5  | 3          |

Endurance

105°C, 2,000hours rated voltage applied (With the rated ripple current)

|                    |                                       |
|--------------------|---------------------------------------|
| Capacitance Change | Within ± 20% of initial value         |
| Dissipation Factor | Less than 200% of the specified value |
| Leakage Current    | Less than the specified value         |

## DRAWING (Unit: mm)



\*1 Voltage mark for 6.3V is [6V] or [6.3V]

\*3 Surface Marking Types: jbC, jC, SC

|       |       |       |         |         |
|-------|-------|-------|---------|---------|
| ΦDxL  | 4x5.4 | 5x5.4 | 6.3x5.4 | 6.3x7.7 |
| A     | 2.0   | 2.2   | 2.6     | 2.6     |
| B     | 4.3   | 5.3   | 6.6     | 6.6     |
| C     | 4.3   | 5.3   | 6.6     | 6.6     |
| E±0.2 | 1.0   | 1.3   | 2.2     | 2.2     |
| L±0.6 | 5.4   | 5.4   | 5.4     | 7.7     |

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### FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

|                               |      |       |       |      |         |
|-------------------------------|------|-------|-------|------|---------|
| Frequency:F(Hz)               | 50Hz | 120Hz | 300Hz | 1KHz | 10kHz≤F |
| Capacitance:C(μF)<br>All ITEM | 0.70 | 1.00  | 1.17  | 1.30 | 1.50    |

### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR

| WV  |     | 6.3(0J)                   |  |   | 10(1A)                    |  |   | 16(1C)                    |  |   |
|-----|-----|---------------------------|--|---|---------------------------|--|---|---------------------------|--|---|
|     |     | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) |
| 10  | 100 |                           |  |   |                           |  | 4x5.4   | 34.5                      | 25                                       |   |
| 22  | 220 | 4x5.4                     | 23.5                                     | 31  | 5x5.4                     | 19.6                                     | 35  | 5x5.4                     | 15.7                                     | 39  |
| 33  | 330 | 5x5.4                     | 15.7                                     | 39  | 5x5.4                     | 13.1                                     | 43  | 6.3x5.4                   | 10.5                                     | 57  |
| 47  | 470 | 5x5.4                     | 11.0                                     | 47  | 6.3x5.4                   | 9.2                                      | 59  | 6.3x5.4                   | 7.3                                      | 68  |
| 100 | 101 | 6.3x5.4                   | 5.2                                      | 75  | 6.3x5.4                   | 4.3                                      | 76  | 6.3x7.7                   | 3.5                                      | 96  |
| 220 | 221 | 6.3x7.7                   | 2.4                                      | 85  |                           |  |   |                           |  |   |

### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT&ESR

| WV  |     | 25(1E)                    |  |   | 35(1V)                    |  |   | 50(1H)                    |  |   |
|-----|-----|---------------------------|--|---|---------------------------|--|---|---------------------------|--|---|
|     |     | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) | Case Size<br>ØDxL<br>(mm) | Impedance<br>(Ω) max at<br>120Hz,<br>20℃ | Rated ripple<br>current<br>mArms(120<br>Hz, 105℃) |
| 1.0 | 010 |                           |  |   |                           |  | 4x5.4   | 216                       | 10                                       |   |
| 2.2 | 2R2 |                           |  |   |                           |  | 4x5.4   | 98                        | 15                                       |   |
| 3.3 | 3R3 |                           |  |   |                           |  | 4x5.4   | 65                        | 18                                       |   |
| 4.7 | 4R7 | 4x5.4                     | 64.2                                     | 19  | 4x5.4                     | 55.1                                     | 20  | 5x5.4                     | 46                                       | 23  |
| 10  | 100 | 5x5.4                     | 30.2                                     | 28  | 5x5.4                     | 25.9                                     | 30  | 6.3x5.4                   | 22                                       | 34  |
| 22  | 220 | 6.3x5.4                   | 13.7                                     | 52  | 6.3x5.4                   | 11.8                                     | 54  | 6.3x7.7                   | 9.8                                      | 85  |
| 33  | 330 | 6.3x5.4                   | 9.1                                      | 63  | 6.3x7.7                   | 7.8                                      | 105   |                           |  |   |
| 47  | 470 | 6.3x7.7                   | 6.4                                      | 100   | 6.3x7.7                   | 5.5                                      | 110   |                           |  |   |

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