

# SMD Aluminum Electrolytic Capacitor – JCB

## FEATURES

- +105°C 2,000hours
- Solvent proof (within 2 minutes)

## SPECIFICATIONS

|                       |                                            |
|-----------------------|--------------------------------------------|
| Operating Temperature | -55°C ~ +105°C                             |
| Voltage Range         | 6.3V ~ 50V.DC                              |
| Surge voltage         | 8.0V ~ 63V.DC                              |
| Capacitance Tolerance | ±20% at 120Hz, 20°C                        |
| Leakage Current       | 0.03CV + 6μA<br>(μA/after 2 minutes (max)) |



Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20°C

|                   |      |      |      |      |      |      |
|-------------------|------|------|------|------|------|------|
| Rated Voltage (V) | 6.3  | 10   | 16   | 25   | 35   | 50   |
| Tan δ (Max.)      | 0.32 | 0.26 | 0.24 | 0.22 | 0.20 | 0.20 |

Stability At Low Temp.

Measurement Frequency: 120Hz

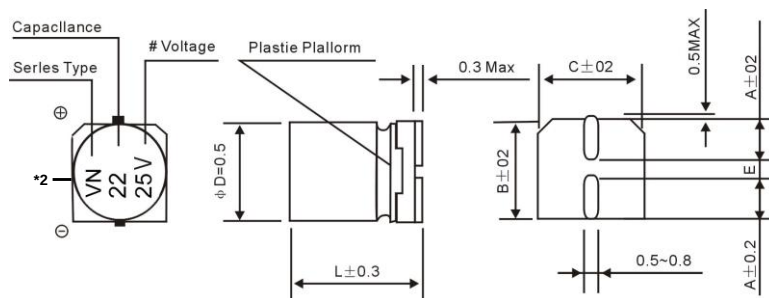
|                   |                    |    |    |    |    |    |
|-------------------|--------------------|----|----|----|----|----|
| Rated voltage (V) | 6.3                | 10 | 16 | 25 | 35 | 50 |
| Impedance Ratio   | Z(-25°C) / Z(20°C) | 4  | 3  | 2  | 2  | 2  |
| ZT / Z20 (Max.)   | Z(-40°C) / Z(20°C) | 10 | 8  | 6  | 4  | 3  |

Endurance

500hours×4(alternately) 105°C, rated voltage applied (With the rated ripple current)

|                    |                                       |
|--------------------|---------------------------------------|
| Capacitance Change | Within ± 30% of initial value.        |
| Dissipation Factor | Less than 300% 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]

\*2 Surface Marking Types: jB, jB, VN

## DIMENSIONS(Unit: mm)

| ØDxL  | 4x5.4 | 5x5.4 | 6.3x5.4 | 6.3x7.7 |
|-------|-------|-------|---------|---------|
| A     | 1.8   | 2.1   | 2.4     | 2.4     |
| 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     | 5.4   | 5.4   | 5.4     | 7.7     |

Please visit our website to get more update data, those data & specification are subject to change without notice.

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### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| WV/V<br>Cap/μF |     | 6.3     |    | 10      |    | 16      |    | 25      |    | 35      |     | 50        |                  |
|----------------|-----|---------|----|---------|----|---------|----|---------|----|---------|-----|-----------|------------------|
|                |     | 0J      |    | 1A      |    | 1C      |    | 1E      |    | 1V      |     | 1H        |                  |
| 1              | 010 | --      | -- | --      | -- | --      | -- | --      | -- | --      | --  | 4×5.4     | 10               |
| 2.2            | 2R2 | --      | -- | --      | -- | --      | -- | --      | -- | 4×5.4   | 8.4 | 5×5.4     | 15               |
| 3.3            | 3R3 | --      | -- | --      | -- | --      | -- | 4×5.4   | 10 | 5×5.4   | 16  | 5×5.4     | 18               |
| 4.7            | 4R7 | --      | -- | --      | -- | 4×5.4   | 12 | 5×5.4   | 16 | 5×5.4   | 18  | 6.3×5.4   | 20               |
| 10             | 100 | --      | -- | 4×5.4   | 17 | 5×5.4   | 23 | 6.3×5.4 | 28 | 6.3×5.4 | 27  | 6.3×5.4   | 25               |
| 22             | 220 | --      | -- | 5×5.4   | 28 | 6.3×5.4 | 37 | 6.3×5.4 | 35 | 6.3×5.4 | 30  | 6.3×7.7   | 35               |
| 33             | 330 | 6.3×5.4 | 37 | 6.3×5.4 | 33 | 6.3×5.4 | 49 | 6.3×7.7 | 50 | 6.3×7.7 | 35  | --        | --               |
| 47             | 470 | 6.3×5.4 | 45 | 6.3×5.4 | 41 | 6.3×7.7 | 55 | --      | -- | --      | --  | --        | --               |
| 100            | 101 | 6.3×7.7 | 82 | 6.3×7.7 | 60 | --      | -- | --      | -- | --      | --  | Case size | Allowable ripple |

Case size:  $\phi$  D(mm) Allowable Ripple (mA rms) at 105°C 120Hz

### FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

| Frequency:F(Hz)   |          | 100≤F<1k | 1k≤F<10k | 10k≤F<100k | 100k≤F |
|-------------------|----------|----------|----------|------------|--------|
| Capacitance:C(μF) | C≤4.7    | 1.00     | 1.30     | 1.50       | 1.80   |
|                   | 4.7<C≤33 | 1.00     | 1.20     | 1.30       | 1.45   |
|                   | 33<C     | 1.00     | 1.10     | 1.20       | 1.30   |

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