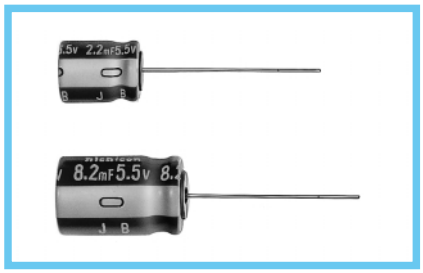
# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

## JB Memory Back-Up Use series

Anti-Solvent Feature

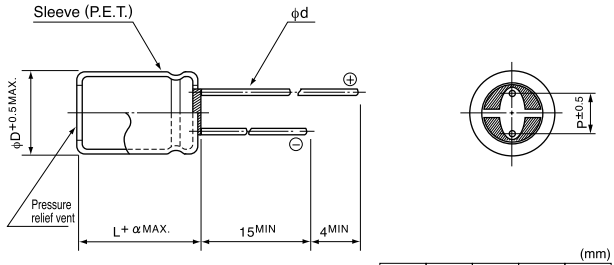


- Developed for memory back-up, with load life of 1000 hours at +85°C.
- Superior to electric double layer type capacitors in the following characteristics:
  - Better voltage maintenance.
  - Speedier charge-up available due to low impedance feature.
  - Wider operating temperature range of –25 ~ +85°C.
- Adapted to the RoHS directive (2002/95/EC).

## ■Specifications

| Item | Performance Characteristics |
|---|---|
| Category Temperature Range | –25 ~ +85°C |
| Rated Voltage Range | 5.5V |
| Rated Capacitance Range | 2.2 ~ 47mF See Note 1 |
| Capacitance Tolerance | –10 ~ +50% |
| Leakage Current | C (μA) (C = Rated capacitance value in mF) See Note 2 |
| Voltage Maintenance | More than 3.5V See Note 3 |
| Stability at Low Temperature | Capacitance (–25°C) / Capacitance (20°C) × 100 ≧ 70% |
| Impedance (Ω) MAX. See Note 4 | Capacitance (mF): 2.2 / 3.3 / 4.7 / 8.2 / 10 / 18 / 22 / 27 / 33 / 39 / 47<br>Impedance (Ω): 1.5 / 1.0 / 0.6 / 0.3 / 0.3 / 0.2 / 0.2 / 0.2 / 0.2 / 0.1 / 0.1 |
| Endurance | After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.<br>Capacitance change: Within ±30% of initial value<br>Impedance: Within 4 times of initial specified value<br>Leakage current: Initial specified value or less<br>Voltage maintenance: Satisfies intial specified value |
| Shelf Life | After storing the capacitors under no load at 85°C for 500 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the requirements for endurance characteristics listed above. |
| Marking | Printed with white color letter on black sleeve. |

## ■Radial Lead Type



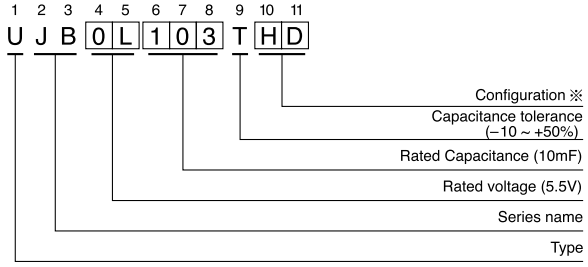

(mm)

| φD | 10 | 12.5 | 16 | 18 |
|---|---|---|---|---|
| P | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.6 | 0.6 | 0.8 | 0.8 |

| α | (L < 20) 1.5 |
|---|---|
| | (L ≧ 20) 2.0 |

• Please refer to page 21 about the end seal configulation.

## Type numbering system (Example : 5.5V 10mF)




※ Configuration

| φ D | Pb-free leadwire Pb-free PET sleeve |
|---|---|
| 10 | PD |
| 12.5 ~ 18 | HD |

Note :
1. After charging a capacitor at the rated voltage of 5.5V for an hour, the capacitance is calculated by the following formula, measuring the time of duration, ΔT (Sec.) from 4V down to 3V when constant current dischage at i (mA) = 0.02 × nominal capacitance is carried out.
   Capacitance (mF) = i × ΔT
2. Current value (20°C) after applying the rated voltage of 5.5V for an hour.
3. Voltage value maintained after the capacitor is subjected to 1 hour voltage application at 5V and then left at room temperature (lower than 25°C) for 24 hours.
4. Measuring Frequency : 1kHz (20°C)

## ■Dimensions

| Ratings (V—mF) | Code | Case Size φD × L (mm) |
|---|---|---|
| 5.5—2.2 | 0L222 | 10×12.5 |
| 5.5—3.3 | 0L332 | 10×16 |
| 5.5—4.7 | 0L472 | 10×20 |
| 5.5—8.2 | 0L822 | 12.5×20 |
| 5.5—10 | 0L103 | 12.5×25 |
| 5.5—18 | 0L183 | 16×25 |
| 5.5—22 | 0L223 | 16×31.5 |
| 5.5—27 | 0L273 | 16×35.5 |
| 5.5—33 | 0L333 | 18×31.5 |
| 5.5—39 | 0L393 | 18×35.5 |
| 5.5—47 | 0L473 | 18×40 |

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.