

# Leaded Radial Aluminum Electrolytic Capacitor – JRB

## FEATURES

- Wide temperature range, long life: 105°C 2000 hours.
- Miniature and low impedance

## SPECIFICATIONS

|                                     |                                                              |                |
|-------------------------------------|--------------------------------------------------------------|----------------|
| Operating Temperature Range (°C)    | -40°C ~ +105°C                                               | -25°C ~ +105°C |
| Rated Voltage Range (V)             | 6.3V ~ 100V                                                  | 160V ~ 450V    |
| Capacitance Tolerance (20°C, 120Hz) | ±20%                                                         |                |
| Leakage Current (μA)                | 0.01CV or 3 whichever is greater. (at 25°C, after 2 minutes) |                |
|                                     | $I \leq 0.02C_R U + 15(\mu A) \text{ (2minutes)}$            |                |
|                                     | C: Nominal Capacitance (μF) V: Rated Voltage (V)             |                |

Dissipation Factor (20°C, 120Hz) For Capacitance of more than 1000μF, add 0.02 for every increase of 1000μF

| U <sub>R</sub> (V) | 6.3  | 10  | 16   | 25   | 35   | 50   | 63   | 100  | 160~450 |
|--------------------|------|-----|------|------|------|------|------|------|---------|
| Tanδ(Max.)         | 0.25 | 0.2 | 0.17 | 0.15 | 0.12 | 0.10 | 0.09 | 0.08 | 0.2     |

Temperature Stability (120Hz)

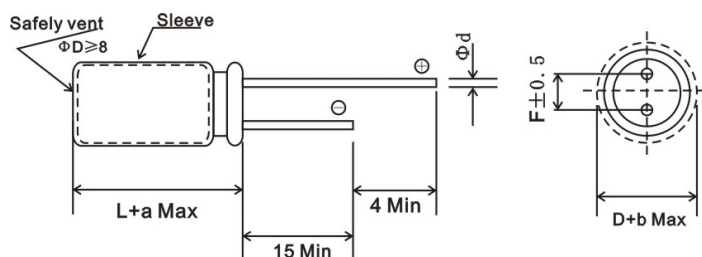
| U <sub>R</sub> (V) | 6.3 | 10 | 16~50 | 63~100 | 160~250 | 400 | 450 |
|--------------------|-----|----|-------|--------|---------|-----|-----|
| Z-25°C/Z+20°C      | --  | -- | --    | --     | ≤6      | ≤4  | ≤4  |
| Z-40°C/Z+20°C      | ≤8  | ≤6 | ≤4    | ≤3     | --      | --  | --  |

Load Life (+105°C)

|                    |                                            |
|--------------------|--------------------------------------------|
| Time               | 2000hours (∅D≤8, 1000 hours)               |
| Leakage Current    | Not more than the specified value.         |
| Capacitance Change | Within±20% of the initial value            |
| Dissipation Factor | Not more than 200% of the specified value. |

Shelf Life (+105°C) 1000 hours. No voltage applied. After test: U<sub>R</sub> to be applied for 30 minutes, 24 to 48 hours before measurement.

## DIMENSIONS (mm)



| ∅D | 5   | 6.3 | 8        | 10  | 12.5 | 16~18 | 22 |
|----|-----|-----|----------|-----|------|-------|----|
| F  | 2.0 | 2.5 | 3.5      | 5.0 | 7.5  | 10    |    |
| ∅d | 0.5 |     | 0.5, 0.6 | 0.6 | 0.8  |       |    |

| a Max. | (L<20) 1.5 | b Max. | (D<20) 0.5 |
|--------|------------|--------|------------|
|        | (L≥20) 2.0 |        | (D≥20) 1.0 |

## MULTIPLIER FOR RIPPLE CURRENT

### Frequency coefficient

| Rated Voltage (V) | Freq(Hz)   | 50  | 120 | 1K  | 10K | 100K |
|-------------------|------------|-----|-----|-----|-----|------|
| 6.3~100           | 0.1~4.7    | --  | 0.4 | 0.7 | 0.8 | 1.0  |
|                   | 10~47      | --  | 0.5 | 0.8 | 0.9 | 1.0  |
|                   | 100~220    | --  | 0.7 | 0.9 | 0.9 | 1.0  |
|                   | 330~1000   | --  | 0.8 | 0.9 | 1.0 | 1.0  |
|                   | 2200~15000 | --  | 0.9 | 1.0 | 1.0 | 1.0  |
| 160~400           | 0.47~220   | 0.8 | 1.0 | 1.3 | 1.4 | 1.6  |

### Temperature coefficient

| Temperature(°C)   | +70 | +85 | +105 |
|-------------------|-----|-----|------|
| Rated Voltage (V) |     |     |      |
| 6.3~100           | 2.0 | 1.7 | 1.0  |
| 160~400           | 1.8 | 1.4 | 1.0  |

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

