

Aluminum Electrolytic Capacitors



Radial Low Leakage 7mm Profile 85°C

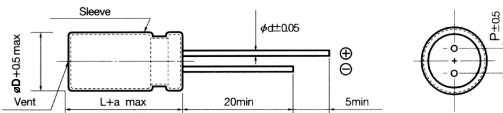
RDLLS Series

- The usage is same as RDLL series
- The nominal size height is 7mm

SPECIFICATION

| ITEM | SPECIFICATION | | | | | | | | | |
|--|--|--------------------------|------|------|----------------------|-----------------------------------|------|-----------------------|------|--|
| Capacitance Tolerance (120Hz 20°C) | ± 20% (M) | | | | | | | | | |
| Rated Working Voltage | 4WV~63WV | | | | | | | | | |
| Operation Temperature Range | -40 ~ +85°C | | | | | | | | | |
| Surge Voltage (V) (20°C) | WV | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | |
| | SV | 5 | 8 | 13 | 20 | 32 | 44 | 63 | 79 | |
| Leakage Current (20°C) | I ≤ 0.002 CV or 0.4 Whichever is greater | | | | | | | | | |
| | After rated voltage applied for 3 minutes | | | | | | | | | |
| | Where | I : Leakage Current (μA) | | | C : Capacitance (μF) | | | V : Rated Voltage (V) | | |
| Dissipation Factor (tan δ) (120Hz 20°C) | WV | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | |
| | DF | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | |
| Low Temperature Characteristics | Impedance ratio at 120Hz | | | | | | | | | |
| | Comparison Z/WV | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | |
| | -25°C / 20°C | 7 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | |
| | -40°C / 20°C | 5 | 8 | 6 | 4 | 4 | 3 | 3 | 3 | |
| Load Life | After 1000 hours application of W.V. at 85°C , the capacitor shall meet the following limits. | | | | | | | | | |
| | Capacitance Change | | | | | ≤ ±15% of Initial Value | | | | |
| | Dissipation Factor | | | | | ≤ 150% of Initial Specified Value | | | | |
| | Leakage Current | | | | | ≤ Initial Specified Value | | | | |
| Others | Satisfied JIS C-5141 | | | | | | | | | |

DIMENSIONS (unit:mm)



| | | | |
|----|------|------|------|
| øD | 4 | 5.0 | 6.3 |
| P | 1.5 | 2.0 | 2.5 |
| ød | 0.45 | 0.45 | 0.45 |
| a | 1.0 | 1.0 | 1.0 |

RIPPLE CURRENT COEFFICIENTS

Frequency Multipliers

| Freq.(Hz) | 50 | 120 | 1K | 10K ~ |
|-----------|------|------|------|-------|
| WV | | | | |
| 6.3 ~ 10 | 0.80 | 1.00 | 1.10 | 1.20 |
| 16 ~ 25 | 0.80 | 1.00 | 1.20 | 1.30 |
| 35 ~ 63 | 0.80 | 1.00 | 1.50 | 1.70 |

Temperature Multipliers

| Temp.(°C) | ~ 75 | 85 |
|-------------|------|------|
| Coefficient | 1.35 | 1.00 |

CASE SIZE & MAX RIPPLE CURRENT

□ CASE SIZE ØDxL(mm) □ MAX RIPPLE CURRENT (mA/85°C, 120Hz)

| CAP Code | WV μF | 4 | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | |
|----------|----------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|-----|-------|-----|
| | | ØDxL | mA | ØDxL | mA | ØDxL | mA | ØDxL | mA | ØDxL | mA | ØDxL | mA | ØDxL | mA | ØDxL | mA |
| OR1 | 0.10 | | | | | | | | | | | | | 4x7 | 1.2 | 4x7 | 1.4 |
| R22 | 0.22 | | | | | | | | | | | | | 4x7 | 2.7 | 4x7 | 3.1 |
| R33 | 0.33 | | | | | | | | | | | | | 4x7 | 3.6 | 4x7 | 4.2 |
| R47 | 0.47 | | | | | | | | | | | | | 4x7 | 5.1 | 4x7 | 6 |
| 010 | 1.0 | | | | | | | | | | | | | 4x7 | 11 | 4x7 | 13 |
| 2R2 | 2.2 | | | | | | | | | | | | | 4x7 | 18 | 4x7 | 21 |
| 3R3 | 3.3 | | | | | | | | | | | | | 4x7 | 23 | 5x7 | 27 |
| 4R7 | 4.7 | | | | | | | | | | | 4x7 | 23 | 5x7 | 27 | 6.3x7 | 32 |
| 100 | 10 | | | | | 4x7 | 25 | 4x7 | 28 | 5x7 | 32 | 5x7 | 35 | 6.3x7 | 42 | | |
| 220 | 22 | 4x7 | 30 | 4x7 | 34 | 5x7 | 38 | 5x7 | 43 | 6.3x7 | 48 | 6.3x7 | 53 | | | | |
| 330 | 33 | 4x7 | 38 | 4x7 | 42 | 5x7 | 46 | 6.3x7 | 55 | 6.3x7 | 59 | | | | | | |
| 470 | 47 | 5x7 | 44 | 5x7 | 50 | 6.3x7 | 57 | 6.3x7 | 65 | | | | | | | | |
| 101 | 100 | 6.3x7 | 65 | 6.3x7 | 75 | 6.3x7 | 86 | | | | | | | | | | |