

KRJ Miniature Aluminium Electrolytic Capacitors

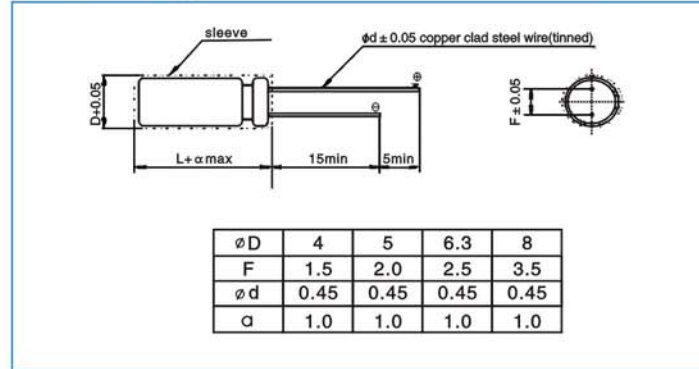
7mm L, 105°C Miniature Capacitors, Series KRJ.

Diameter from $\Phi 4$ to $\Phi 8$ and height of 7mm

Guaranteed 1000 hours at 105°C

Outline Drawing

Unit: mm



RoHS

Photo



Marking color: black print on blue sleeve

Specifications

| No. | Item | Performance | | | | | | | | | | |
|-----|---|--|---|------|------|------|------|------|------|------|---------------|---|
| 1 | Temperature range (°C) | -55 to +105 | | | | | | | | | | |
| 2 | Leakage current (μA) | Less than 0.01CV or 3 whichever is larger (after two minutes) C: Rated Capacitance (μF); V: Rated voltage(V) 20°C | | | | | | | | | | |
| 3 | Capacitance tolerance (%) | ± 20 (20°C, 120Hz) | | | | | | | | | | |
| 4 | Tangent of the loss angle (Tan δ) | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | (20°C, 120Hz) | |
| | | Tan δ (max) | 0.35 | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | |
| 5 | Low temperature characteristics | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | (120Hz) | |
| | | Impedance ratio (max) | $Z_{(-25^\circ C)}/Z_{(+20^\circ C)}$ | 7 | 4 | 3 | 2 | 2 | 2 | 2 | | 2 |
| | | | $Z_{(-40^\circ C)}/Z_{(+20^\circ C)}$ | 15 | 8 | 6 | 4 | 4 | 3 | 3 | | 3 |
| 6 | Endurance (105°C) (Applied ripple current) | Test time | 1000hours | | | | | | | | | |
| | | Leakage current | The initial specified value or less | | | | | | | | | |
| | | Percentage of capacitance change | Within $\pm 20\%$ of initial value | | | | | | | | | |
| | | Tangent of the loss angle | 200% or less of the initial specified value | | | | | | | | | |
| 7 | Shelf life (105°C) | Test time | 500hours | | | | | | | | | |
| | | Leakage current | The initial specified value or less | | | | | | | | | |
| | | Percentage of capacitance change | Within $\pm 20\%$ of initial value | | | | | | | | | |
| | | Tangent of the loss angle | 200% or less of the initial specified value | | | | | | | | | |
| | | Pretreatment performed JIS-C-5102 | | | | | | | | | | |
| 8 | Applicable standards | JIS-C-5102 and JIS-C-5141 | | | | | | | | | | |

Coefficient of Frequency for Ripple Current

| Rated voltage (v) | Frequency (Hz) | | | |
|-------------------|----------------|------|------|------------|
| | 50 · 60 | 120 | 1K | 10K · 100K |
| 4 to 16 | 0.95 | 1.00 | 1.28 | 1.39 |
| 25 to 35 | 0.76 | 1.00 | 1.27 | 1.59 |
| 50 to 63 | 0.90 | 1.00 | 1.40 | 2.00 |

Coefficient of Temperature for Ripple Current

| Temperature(°C) | 70 or less | 85 | 105 |
|-----------------|------------|------|------|
| Coefficient | 2.10 | 1.80 | 1.00 |

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Dimension: Φ DxL(mm)

Ripple Current: mA/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

| V.DC μ F Contents | 4V | | 6.3V | | 10V | | 16V | | 25V | | 35V | | 50V | | 63V | |
|--------------------------|------------|-----|------------|-----|------------|------|------------|------|------------|-------|------------|-------|------------|-----|------------|-----|
| | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA | Φ DxL | mA |
| 0.1 | | | | | | | | | | | | | 4X7 | 2 | 4X7 | 2 |
| 0.22 | | | | | | | | | | | | | 4X7 | 3 | 4X7 | 3 |
| 0.33 | | | | | | | | | | | | | 4X7 | 4 | 4X7 | 4.4 |
| 0.47 | | | | | | | | | | | | | 4X7 | 5 | 4X7 | 7.9 |
| 1 | | | | | | | | | | | | | 4X7 | 10 | 4X7 | 11 |
| 2.2 | | | | | | | | | | | | | 4X7 | 15 | 4X7 | 17 |
| 3.3 | | | | | | | | | | | | | 4X7 | 18 | 4X7 | 21 |
| 4.7 | | | | | | | | | | | | | 4X7 | 22 | 5X7* | 23 |
| 10 | | | | | | | 4X7 | 25 | 4X7 | 26 | 5X7* | 30 | 6.3X7* | 34 | 6.3X7 | 40 |
| 22 | | 4X7 | 31 | 4X7 | 32 | 5X7* | 39 | 5X7* | 41 | 6.3X7 | 47 | 6.3X7 | 53 | 8X7 | 70 | |
| 33 | 4X7 | 32 | 4X7 | 32 | 4X7 | 35 | 5X7 | 43 | 6.3X7 | 53 | 8X7* | 71 | 8X7 | 76 | | |
| 47 | 4X7 | 38 | 4X7 | 38 | 5X7* | 47 | 6.3X7* | 59 | 6.3X7 | 65 | 8X7 | 83 | 8X7 | 85 | | |
| 100 | 5X7 | 61 | 6.3X7* | 75 | 6.3X7 | 80 | 6.3X7 | 90 | 8X7 | 125 | | | | | | |
| 220 | 6.3X7 | 90 | 6.3X7 | 99 | 8X7 | 140 | 8X7 | 146 | | | | | | | | |
| 330 | 8X7 | 156 | 8X7 | 156 | | | | | | | | | | | | |

Note: Case size in mark of "*" is available to product down size.

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