

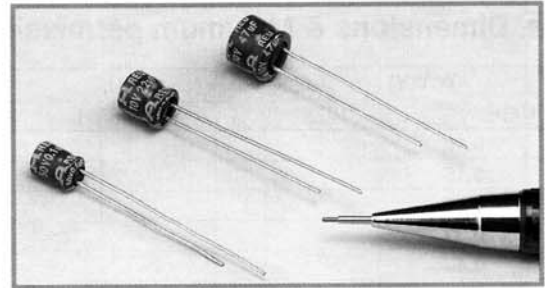


REU SERIES

5mm Height, High temperature

Features

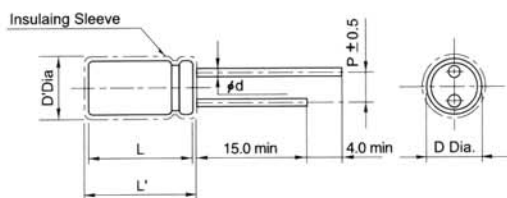
- Lengths are all 5mm, Radial
- Wide temperature range
- For automatic insertion
- Load life of 1000 hours at 105°C



Specifications

| Item | Performance Characteristics | | | | | | | |
|---|--|--|------|------|------|------|------|------|
| Operating temperature range | -40°C ~ +105°C | | | | | | | |
| Rated working voltage range | 4.0V ~ 50V | | | | | | | |
| Nominal capacitance range | 0.1μF ~ 100μF, ±20% (at 20°C, 120Hz) | | | | | | | |
| D.C Leakage current(at 20°C) | The following specifications shall be satisfied when the rated voltage is applied for the required time. $I \leq 0.01CV$ or $3\mu A$ (2 min), whichever is greater Where I =Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V) | | | | | | | |
| Tan δ (max., at 20°C, 120Hz) | W.V(V) | 4.0 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | Tan δ | 0.35 | 0.26 | 0.22 | 0.19 | 0.15 | 0.13 | 0.10 |
| Characteristics at low temperature(max.) (impedance ratio at 120Hz) | W.V(V) | 4.0 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | Z-25°C/Z20°C | 6 | 4 | 4 | 3 | 2 | 2 | 2 |
| Load life | Z-40°C/Z20°C | 12 | 9 | 7 | 5 | 3 | 3 | 3 |
| | After applying rated working voltage for 1000 hours at +105°C and then being stabilized at +20°C, capacitors shall meet following limits. | | | | | | | |
| Shelf life | Capacitance change | Within ± 25% of the initial measured value | | | | | | |
| | Tan δ | ≤ 200% of the initial specified value | | | | | | |
| | Leakage current | ≤ The initial specified value | | | | | | |
| Shelf life | After storage for 1000 hours at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits. | | | | | | | |
| | Capacitance change | Within ± 25% of the initial measured value | | | | | | |
| | Tan δ | ≤ 200% of the initial specified value | | | | | | |
| | Leakage current | ≤ 200% of the initial specified value | | | | | | |

Dimensions



• Standard lead style

| φD | 4.0 | 5.0 | 6.3 |
|----|------|-----|-----|
| p | 1.5 | 2.0 | 2.5 |
| φd | 0.45 | | |

D' = [D+0.5]Max.

L' = [L+1.0]Max.

Dimensions & Maximum permissible ripple current

φ D x L (mm)

| W.V(V) Cap(μF) | 4.0(0G) | 6.3(0J) | 10(1A) | 16(1C) | 25(1E) | 35(1V) | 50(1H) |
|-------------------|----------|------------|------------|------------|------------|------------|------------|
| 0.1 | | | | | | | 4x5 2.0 |
| 0.15 | | | | | | | 4x5 2.4 |
| 0.22 | | | | | | | 4x5 3.2 |
| 0.33 | | | | | | | 4x5 3.7 |
| 0.47 | | | | | | | 4x5 4.8 |
| 0.68 | | | | | | | 4x5 5.0 |
| 1.0 | | | | | | | 4x5 6.7 |
| 1.5 | | | | | | | 4x5 8.9 |
| 2.2 | | | | | | | 4x5 10 |
| 3.3 | | | | | | 4x5 10 | 4x5 14 |
| 4.7 | | | | | 4x5 16 | 4x5 15 | 5x5 18 |
| 6.8 | | | 4x5 12 | 4x5 14 | 4x5 18 | 5x5 21 | 5x5 24 |
| 10 | | 4x5 15 | 4x5 16 | 4x5 17 | 5x5 23 | 5x5 26 | 6.3x5 31 |
| 15 | 4x5 16 | 4x5 19 | 4x5 22 | 5x5 25 | 5x5 30 | 6.3x5 36 | 6.3x5 38 |
| 22 | 4x5 21 | 4x5 22 | 5x5 28 | 5x5 32 | 6.3x5 36 | 6.3x5 44 | |
| 33 | 4x5 27 | 4x5 30 | 5x5 33 | 6.3x5 38 | 6.3x5 45 | | |
| 47 | 4x5 33 | 5x5 38 | 6.3x5 45 | 6.3x5 50 | | | |
| 68 | 5x5 42 | 6.3x5 50 | 6.3x5 55 | | | | |
| 100 | 5x5 52 | 6.3x5 62 | | | | | |

I_m : Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]