

Features

- Height:5.4mm.
- Load life:105°C, 1000hours.
- CP series is Bi-Polar type

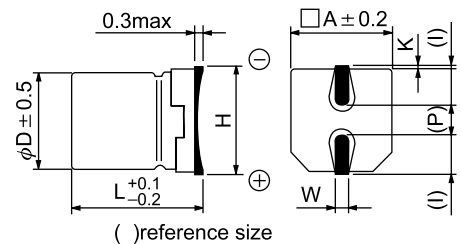


SPECIFICATION

| Item | Characteristic | | | | | | | |
|--|---|-----------------------------------|------|------|---|------|------|--|
| Operation Temperature Range | -55 ~ +105°C | | | | | | | |
| Rated Working Voltage | 6.3 ~ 50VDC | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | |
| Leakage Current (20°C) | I ≤ 0.05CV or 10 (μA) *Whichever is greater after 2 minutes | | | | I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V) | | | |
| Surge Voltage (20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | S.V. | 8 | 13 | 20 | 32 | 44 | 63 | |
| Dissipation Factor (tan δ) (120Hz 20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | tan δ | 0.26 | 0.22 | 0.20 | 0.20 | 0.20 | 0.18 | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | |
| | Rated Voltage (V) | | | | | | | |
| | -25°C / +20°C | 4 | 3 | 2 | 2 | 2 | 2 | |
| | -40°C / +20°C | 8 | 6 | 4 | 4 | 3 | 3 | |
| Load Life | After 1000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rated working voltage) (The polarity need to exchange every 250 hours) | | | | | | | |
| | Capacitance Change | ≤ ±25% of initial value | | | | | | |
| | Dissipation Factor | ≤ 200% of initial specified value | | | | | | |
| | Leakage current | ≤ initial specified value | | | | | | |
| Shelf Life | At +105°C, no voltage application after 500 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment) | | | | | | | |
| Resistance to Soldering Heat | Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature. | | | | | | | |
| | Capacitance Change | ≤ ±10% of initial value | | | | | | |
| | Dissipation Factor | ≤ initial specified value | | | | | | |
| | Leakage current | ≤ initial specified value | | | | | | |

DIMENSIONS (mm)

| D | L | A | H | I | W | P | K |
|-----|-----|-----|--------|-----|----------|-----|--|
| 4.0 | 5.4 | 4.3 | 5.5MAX | 1.8 | 0.65±0.1 | 1.0 | 0.35 ^{+0.15} _{-0.20} |
| 5.0 | 5.4 | 5.3 | 6.5MAX | 2.2 | 0.65±0.1 | 1.5 | 0.35 ^{+0.15} _{-0.20} |
| 6.3 | 5.4 | 6.6 | 7.8MAX | 2.6 | 0.65±0.1 | 2.1 | 0.35 ^{+0.15} _{-0.20} |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 105°C 120Hz

| μF | V(Code) Code Item | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | |
|------|-------------------------|----------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| | | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.1 | 0R1 | | | | | | | | | | | 4x5.4 | 2 |
| 0.22 | R22 | | | | | | | | | | | 4x5.4 | 3 |
| 0.33 | R33 | | | | | | | | | | | 4x5.4 | 4 |
| 0.47 | R47 | | | | | | | | | | | 4x5.4 | 4 |
| 1.0 | 010 | | | | | | | | | | | 4x5.4 | 6 |
| 2.2 | 2R2 | | | | | | | | | 4x5.4 | 9 | 5x5.4 | 10 |
| 3.3 | 3R3 | | | | | | | 5x5.4 | 12 | 5x5.4 | 13 | 5x5.4 | 13 |
| 4.7 | 4R7 | | | | | 4x5.4 | 12 | 5x5.4 | 14 | 5x5.4 | 15 | 6.3x5.4 | 17 |
| 10 | 100 | | | 4x5.4 | 17 | 5x5.4 | 21 | 6.3x5.4 | 24 | 6.3x5.4 | 25 | | |
| 22 | 220 | 5x5.4 | 26 | 6.3x5.4 | 32 | 6.3x5.4 | 35 | | | | | | |
| 33 | 330 | 6.3x5.4 | 36 | 6.3x5.4 | 40 | 6.3x5.4 | 43 | | | | | | |
| 47 | 470 | 6.3x5.4 | 43 | | | | | | | | | | |