

CHIP TYPE

CU
Series

Aluminum Electrolytic Capacitor
Surface Mounted Device

JAMICON®

Features

- Load life : 105°C 3000~5000 hours.
- For high density mounting.

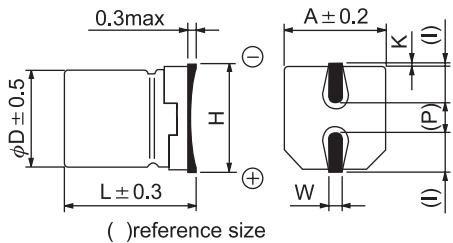


SPECIFICATION

| Item | Characteristic | | | | | | | | | | | |
|--|--|---|---|----------------------------------|-------------------------------------|------|------|--|--|--|--|--|
| Operation Temperature Range | -55 ~ +105°C | | | | | | | | | | | |
| Rated Working Voltage | 6.3 ~ 50VDC | | | | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | $\pm 20\% (M)$ | | | | | | | | | | | |
| Leakage Current (20°C) | $I \leq 0.01CV$ or $3 (\mu A)$ | | | | I : Leakage Current (μA) | | | | | | | |
| | Whichever is greater after 2 minutes | | | | C : Rated Capacitance (μF) | | | | | | | |
| Surge Voltage (20°C) | W.V. | | 6.3 | 10 | 16 | 25 | 35 | | | | | |
| | S.V. | | 8 | 13 | 20 | 32 | 44 | | | | | |
| Dissipation Factor (tan δ) (120Hz 20°C) | Add 0.02 per 1000 μF for more than 1000 μF | | | | | | | | | | | |
| | W.V. | | 6.3 | 10 | 16 | 25 | 35 | | | | | |
| | tan δ | | 0.28 | 0.24 | 0.20 | 0.16 | 0.13 | | | | | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | | | | |
| | Rated Voltage (V) | | 6.3 | 10 | 16 | 25 | 35 | | | | | |
| | -25°C / +20°C | | 4 | 3 | 2 | 2 | 2 | | | | | |
| | -55 °C / +20°C | | 10 | 7 | 5 | 3 | 3 | | | | | |
| Load Life | After hours ($\phi D \leq 6.3mm$ 3000 hours, $\phi D \geq 8mm$ 5000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage) | | | | | | | | | | | |
| | Capacitance Change | | $\leq \pm 30\%$ of initial value | | | | | | | | | |
| | Dissipation Factor | | $\leq 300\%$ of initial specified value | | | | | | | | | |
| | Leakage current | | \leq initial specified value | | | | | | | | | |
| Shelf Life | | At +105°C, no voltage application after 1000 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 | | $\leq \pm 10\%$ of initial value | | | | | | | | |
| | | Dissipation Factor | | \leq initial specified value | | | | | | | | |
| | | Leakage current | | \leq initial specified value | | | | | | | | |

DIMENSIONS (mm)

| D | L | A | H | I | W | P | K |
|------|------|------|---------|-----|----------------|-----|------------------------|
| 4.0 | 5.8 | 4.3 | 5.5MAX | 1.8 | 0.65 ± 0.1 | 1.0 | $0.35^{+0.15}_{-0.20}$ |
| 5.0 | 5.8 | 5.3 | 6.5MAX | 2.2 | 0.65 ± 0.1 | 1.5 | $0.35^{+0.15}_{-0.20}$ |
| 6.3 | 5.8 | 6.6 | 7.8MAX | 2.6 | 0.65 ± 0.1 | 2.1 | $0.35^{+0.15}_{-0.20}$ |
| 6.3 | 7.7 | 6.6 | 7.8MAX | 2.6 | 0.65 ± 0.1 | 2.1 | $0.35^{+0.15}_{-0.20}$ |
| 8.0 | 10.2 | 8.3 | 10.0MAX | 3.4 | 0.9 ± 0.2 | 3.1 | 0.70 ± 0.20 |
| 10.0 | 10.2 | 10.3 | 12.0MAX | 3.5 | 0.9 ± 0.2 | 4.6 | 0.70 ± 0.20 |



● CASE SIZE & MAX RIPPLE CURRENT