

CHIP TYPE

CR

Series

Surface Mounted Device

JAMICON®

Features

- Higher Capacitance in larger case sizes.
- For general purposes series with 85°C 2000 hours.

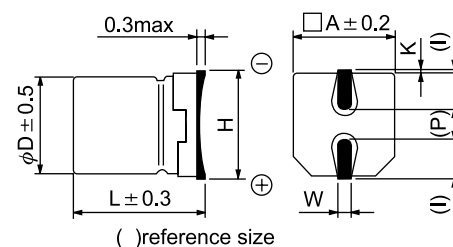


SPECIFICATION

| Item | Characteristic | | | | | | | | | | |
|--|--|---|------|------|------|------|------|------|------|------|--|
| Operation Temperature Range | -40 ~ +85°C | | | | | | | | | | |
| Rated Working Voltage | 4 ~ 100VDC | | | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | | | | |
| Leakage Current (20°C) | $I \leq 0.01CV$ or $3 (\mu A)$ <div style="float: right; text-align: right;"> I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V) </div> *Whichever is greater after 2 minutes | | | | | | | | | | |
| Surge Voltage (20°C) | W.V. | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | S.V. | 5 | 8 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | |
| Dissipation Factor ($\tan \delta$) (120Hz 20°C) | Add 0.02 per 1000 μF for more then 1000 μF | | | | | | | | | | |
| | W.V. | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | $\tan \delta$ | 0.35 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | | | |
| | Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | -25°C / +20°C | 7 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | -40°C / +20°C | 15 | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | |
| Load Life | After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage) | | | | | | | | | | |
| | Capacitance Change | $\leq \pm 20\%$ of initial value | | | | | | | | | |
| | Dissipation Factor | $\leq 200\%$ of initial specified value | | | | | | | | | |
| | Leakage current | \leq initial specified value | | | | | | | | | |
| Shelf Life | At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment) | | | | | | | | | | |
| Resistance to Soldering Heat | Capacitors 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 |
|------|------|------|---------|-----|----------|-----|--|
| 8.0 | 6.2 | 8.3 | 9.5MAX | 3.4 | 0.65±0.1 | 2.2 | 0.35 ^{+0.15} _{-0.20} |
| 8.0 | 10.2 | 8.3 | 10.0MAX | 3.4 | 0.90±0.2 | 3.1 | 0.70±0.2 |
| 10.0 | 10.2 | 10.3 | 12.0MAX | 3.5 | 0.90±0.2 | 4.6 | 0.70±0.2 |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

| μF | V(Code) | | 4 (0G) | | 6.3 (0J) | | 10 (1A) | |
|------|---------|------|---------|------|----------|------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 100 | | 101 | | | | | 8x6.2 | 130 |
| 220 | | 221 | | | 8x6.2 | 150 | 8x6.2 | 190 |
| 330 | | 331 | 8x6.2 | 140 | 8x6.2 | 180 | 8x10.2 | 290 |
| 470 | | 471 | 8x10.2 | 210 | 8x10.2 | 260 | 10x10.2 | 420 |
| 1000 | | 102 | 8x10.2 | 300 | 10x10.2 | 460 | 10x10.2 | 610 |
| 1500 | | 152 | 10x10.2 | 440 | 10x10.2 | 560 | | |

| μF | V(Code) | | 16 (1C) | | 25 (1E) | | 35 (1V) | |
|-----|---------|------|---------|------|---------|------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 33 | | 330 | | | | | 8x6.2 | 120 |
| 47 | | 470 | | | 8x6.2 | 100 | 8x6.2 | 140 |
| 100 | | 101 | 8x6.2 | 140 | 8x6.2 | 150 | 8x10.2 | 250 |
| 220 | | 221 | 8x10.2 | 260 | 8x10.2 | 270 | 10x10.2 | 440 |
| 330 | | 331 | 8x10.2 | 310 | 10x10.2 | 450 | 10x10.2 | 540 |
| 470 | | 471 | 10x10.2 | 450 | | | | |

| μF | V(Code) | | 50 (1H) | | 63 (1J) | | 100 (2A) | |
|-----|---------|------|---------|------|---------|------|----------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 3.3 | | 3R3 | | | | | 8x6.2 | 41 |
| 4.7 | | 4R7 | | | | | 8x10.2 | 60 |
| 10 | | 100 | | | | | 8x10.2 | 85 |
| 22 | | 220 | 8x6.2 | 110 | 8x10.2 | 120 | 10x10.2 | 150 |
| 33 | | 330 | 8x6.2 | 130 | 8x10.2 | 140 | 10x10.2 | 180 |
| 47 | | 470 | 8x10.2 | 190 | 10x10.2 | 190 | | |
| 100 | | 101 | 10x10.2 | 310 | 10x10.2 | 280 | | |
| 220 | | 221 | 10x10.2 | 460 | | | | |