

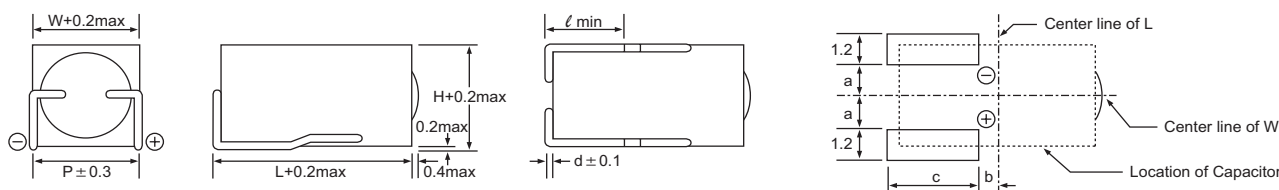
Features

- Height : 3.8mm~4.8mm.
- Load Life : 105°C 2000 hours.



SPECIFICATION

| Item | Characteristic | | | | | | | |
|--|---|--|------|------|-----------------------------------|------|------|--|
| Operation Temperature Range | -55 ~ +105°C | | | | | | | |
| Rated Working Voltage | 4 ~ 50VDC | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±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) | | | |
| | | | | | V : Working Voltage (V) | | | |
| Surge Voltage (20°C) | W.V. | 4 | 6.3 | 10 | 16 | 25 | 50 | |
| | S.V. | 5 | 8 | 13 | 20 | 32 | 63 | |
| Dissipation Factor (tan δ) (120Hz 20°C) | W.V. | 4 | 6.3 | 10 | 16 | 25 | 50 | |
| | tan δ | 0.44 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | |
| | Rated Voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 50 | |
| | -25°C / +20°C | 3 | 3 | 2 | 2 | 2 | 2 | |
| | -55°C / +20°C | 8 | 6 | 4 | 3 | 3 | 3 | |
| Load Life | After hours (3A 1500 hours, 3B,4A,4B 2000 hours) application of WV at +105°C the capacitor shall meet the following limits. | | | | | | | |
| | Capacitance Change | \leq With in 3A $\pm 30\%$ of initial value; 3B,4A,4B $\pm 20\%$ of initial value. | | | | | | |
| | Dissipation Factor | $\leq 200\%$ 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) | | | | | | | |



DIMENSIONS (mm)

| Case Code | L | W | H | P | ℓ | d | a | b | c | Diameter of lead |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------------|
| 3A | 6.3 | 3.6 | 3.6 | 3.2 | 1.6 | 0.6 | 1.1 | 0.6 | 3.0 | 0.40 |
| 4A | 7.1 | 4.6 | 4.6 | 4.2 | 1.8 | 0.7 | 1.6 | 0.6 | 3.3 | 0.45 |
| 3B | 9.3 | 3.6 | 3.6 | 3.2 | 1.6 | 0.6 | 1.1 | 2.1 | 3.0 | 0.40 |
| 4B | 10.1 | 4.6 | 4.6 | 4.2 | 1.8 | 0.7 | 1.6 | 2.1 | 3.3 | 0.45 |

● CASE SIZE & MAX RIPPLE CURRENT

Max impedance : Ω 20°C 100KHz
 Max ripple current : mA(rms) 105°C 100KHz

| μF | V(Code) Code | Item | 4 (0G) | | | 6.3 (0J) | | | 10 (1A) | | | 16 (1C) | | | 25 (1E) | | | 50 (1H) | | |
|------|-----------------|------|--------|------|------|----------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| | | | CASE | IMP. | R.C. | CASE | IMP. | R.C. | CASE | IMP. | R.C. | CASE | IMP. | R.C. | CASE | IMP. | R.C. | CASE | IMP. | R.C. |
| 0.47 | R47 | | | | | | | | | | | | | | | | 3A | 7.0 | 5 | |
| 1.0 | 010 | | | | | | | | | | | | | | | | 3A | 7.0 | 6 | |
| 1.5 | 1R5 | | | | | | | | | | | | | | | | 3A | 7.0 | 8 | |
| 2.2 | 2R2 | | | | | | | | | | | | | | | | 3A | 7.0 | 11 | |
| 3.3 | 3R3 | | | | | | | | | | | | | 3A | 6.5 | 15 | 3B | 3.5 | 55 | |
| | | | | | | | | | | | | | | | | | 4A | 3.0 | 70 | |
| 4.7 | 4R7 | | | | | | | | | | | | | 3A | 6.5 | 18 | 3B | 3.5 | 55 | |
| | | | | | | | | | | | | | | | | | 4A | 3.0 | 70 | |
| 6.8 | 6R8 | | | | | | | | | | | | | 3A | 6.5 | 22 | 3B | 3.5 | 55 | |
| | | | | | | | | | | | | | | | | | 4A | 3.0 | 70 | |
| 10 | 100 | | | | | | | | | | | | 3A | 6.5 | 30 | 4A | 3.0 | 70 | | |
| 15 | 150 | | | | | | | | | | | 3A | 6.5 | 30 | 3B | 3.0 | 60 | 4B | 2.5 | 120 |
| | | | | | | | | | | | | | | | | 4A | 2.5 | 75 | | |
| 22 | 220 | | | | | | | | 3A | 6.5 | 30 | | | | 3B | 3.0 | 60 | 4B | 2.5 | 150 |
| | | | | | | | | | | | | | | | | 4A | 2.5 | 75 | | |
| 33 | 330 | | | | 3A | 6.5 | 30 | | | | 3B | 3.0 | 60 | 4A | 2.5 | 75 | 4B | 2.5 | 150 | |
| 47 | 470 | 3A | 6.5 | 28 | | | | 3B | 3.0 | 60 | 4A | 2.5 | 75 | 4B | 2.0 | 150 | | | | |
| 68 | 680 | | | | 3B | 3.0 | 60 | 4A | 2.5 | 75 | | | | 4B | 2.0 | 150 | | | | |
| 100 | 101 | 3B | 3.0 | 60 | 4A | 2.5 | 75 | | | | 4B | 2.0 | 150 | | | | | | | |
| 150 | 151 | 4A | 2.5 | 80 | | | | 4B | 2.0 | 150 | | | | | | | | | | |
| 220 | 221 | | | | 4B | 2.0 | 150 | | | | | | | | | | | | | |
| 270 | 271 | 4B | 2.0 | 150 | | | | | | | | | | | | | | | | |

● PART

