

- 105°C high-temperature and high voltage 400~500WV, life 2000hrs.
- Specially Size, 10~18mm diameter.
- For LCD-TV and LCD-Monitor power.
- Corresponding product to RoHS

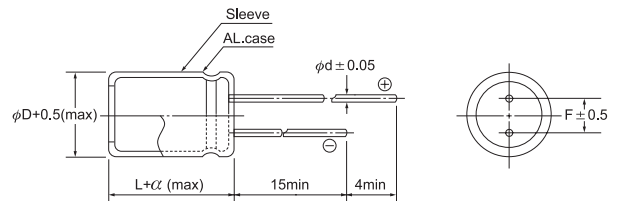


● SPECIFICATION

| Item | Characteristic | | | |
|---|---|---|------|---|
| Operation Temperature Range | -40 ~ +105°C | | | |
| Rated Working Voltage | 400 ~ 500VDC | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | |
| Leakage Current (20°C) | $I \leq 0.03CV + 40 (\mu A)$ max Whichever is greater after 3 minutes | | | I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V) |
| Surge Voltage (20°C) | W.V. | 400 | 450 | 500 |
| | S.V. | 450 | 500 | 550 |
| Dissipation Factor (tan δ) (120Hz 20°C) | W.V. | 400 | 450 | 500 |
| | tan δ | 0.20 | 0.20 | 0.20 |
| Low Temperature Stability | Impedance ratio at 120Hz | | | |
| | Rated Voltage (V) | 400 | 450 | 500 |
| | -25°C / +20°C | 6 | 15 | 15 |
| | -40°C / +20°C | 10 | - | - |
| Load Life | After 2000 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 | $\leq \pm 20\%$ 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 capacitors shall meet limits for load life characteristics. (With voltage treatment) | | | |

● DIMENSIONS (mm)

| ϕD | 10 | 12.5 | 16 | 18 |
|----------|-----|------|-----|-----|
| F | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.6 | 0.6 | 0.8 | 0.8 |
| α | 2.0 | 2.5 | 2.0 | 2.0 |



● RIPPLE CURRENT COEFFICIENTS

| Temperature(°C) | 65 | 85 | 105 |
|-----------------|------|------|------|
| Multiplier | 1.75 | 1.40 | 1.00 |

| Frequency (Hz) | 60 | 120 | 1k | $\geq 10k$ |
|----------------|------------|------|------|------------|
| W.V. | Multiplier | | | |
| 400~500 | 0.70 | 1.00 | 1.30 | 1.80 |

● CASE SIZE & MAX RIPPLE CURRENT

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

| μF | V(DC) Item | 400 | | 450 | | 500 | |
|-----|---------------|---------|------|---------|------|---------|------|
| | | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 22 | | 10x30 | 150 | 10x35 | 153 | 12.5x35 | 158 |
| 33 | | 10x40 | 192 | 10x45 | 198 | 12.5x45 | 162 |
| 39 | | 10x45 | 235 | 10x50 | 250 | 12.5x50 | 168 |
| | | 12.5x35 | 250 | 12.5x40 | 265 | | |
| 47 | | 10x50 | 285 | 12.5x45 | 305 | 16x40 | 175 |
| | | 12.5x40 | 282 | 16x35 | 290 | | |
| 68 | | 12.5x45 | 340 | 16x35 | 490 | 16x45 | 180 |
| | | 16x35 | 330 | | | | |
| 82 | | 12.5x50 | 365 | 16x40 | 490 | 16x50 | 190 |
| | | 16x35 | 385 | | | | |
| 100 | | 16x40 | 468 | 16x50 | 640 | 18x45 | 200 |
| 120 | | 16x40 | 550 | 16x50 | 650 | 18x50 | 220 |