

SIX Series

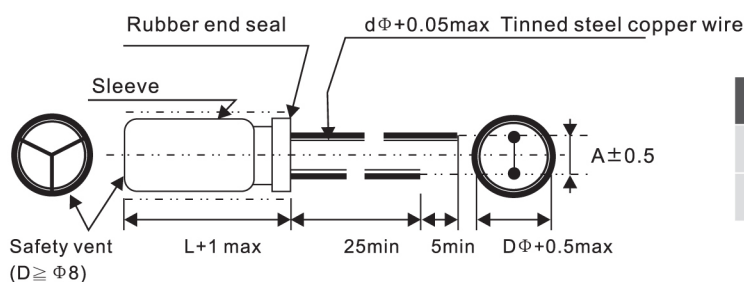
- 7mmL, height, 2000-hours-load life at 85 °C



• SPECIFICATIONS

| Items | Characteristics | | | | | | | | |
|---------------------------------|--|--|------|------|------|------|------|------|------|
| Category Temperature Range | - 40 to + 85°C | | | | | | | | |
| Rated Voltage Range | 4v to 63Vdc | | | | | | | | |
| Capacitance Tolerance | ± 20% (M) (at 20°C ,120Hz) | | | | | | | | |
| Leakage Current | I ≤ 0.01CV or 3 μA , whichever is greater. Where, I :Max. Leakage current (μA). C: Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C , after 2 minutes) | | | | | | | | |
| Dissipation Factor (tan δ) | Rated voltage (Vdc) | 4V | 6.3V | 10V | 16V | 25V | 35V | 50V | 63V |
| | tan δ (Max.) | 0.35 | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 |
| Low Temperature Characteristics | Impedance ration max at 120Hz | | | | | | | | |
| | Working voltage | 4v | 6.3v | 10v | 16v | 25v | 35v | 50v | 63v |
| | Z-25°C/ Z+20°C | 7 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Z-40°C/ Z+20°C | 14 | 10 | 8 | 6 | 4 | 4 | 4 | 4 |
| Load. Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for 2000 hours at 85°C | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | |
| | DF (tan δ) | ≤ 200 % of the initial specified value | | | | | | | |
| | Leakage current | ≤ The initial specified value | | | | | | | |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | |
| | DF (tan δ) | ≤ 200 % of the initial specified value | | | | | | | |
| | Leakage current | ≤ The initial specified value | | | | | | | |
| Ripple Current Multiplier | Temperature coefficient | | | | | | | | |
| | Temperature(°C) | ~55 | 60 | 70 | 85 | | | | |
| | Factor | 1.65 | 1.50 | 1.30 | 1.00 | | | | |
| | Frequency coefficient | | | | | | | | |
| | cap | freq | 50 | 120 | 300 | 1K | 10K~ | | |
| | ~47 | | 0.75 | 1.00 | 1.20 | 1.30 | 1.45 | | |
| 100~470 | | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 | | | |

• Diagram: (Unit: mm)

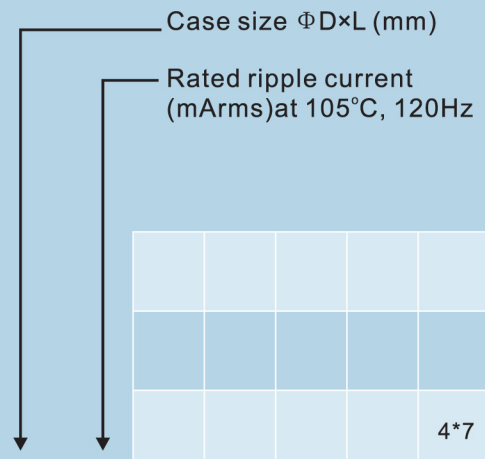


| Body Dia ΦD | 4 | 5 | 6 | 8 |
|--------------|------|------|------|------|
| Lead Dia Φd | 0.45 | 0.50 | 0.50 | 0.50 |
| Lead Space A | 1.5 | 2.0 | 2.5 | 3.5 |

◆ SIX series 7mmL, 85°C 標準品

● STANDARD RATING

| Vdc μF | 4 | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | |
|-----------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| | 0.1 | | | | | | | | | | | | 4*7 | 2.0 | 4*7 | 2.0 |
| 0.22 | | | | | | | | | | | | 4*7 | 3.0 | 4*7 | 3.0 | |
| 0.33 | | | | | | | | | | | | 4*7 | 4.0 | 4*7 | 4.0 | |
| 0.47 | | | | | | | | | | | | 4*7 | 5.0 | 4*7 | 6.0 | |
| 1.0 | | | | | | | | | | | | 4*7 | 10 | 4*7 | 11 | |
| 2.2 | | | | | | | | | | | | 4*7 | 15 | 4*7 | 17 | |
| 3.3 | | | | | | | | | | | | 4*7 | 18 | 5*7 | 21 | |
| 4.7 | | | | | | | | | | | 4*7 | 22 | 5*7 | 23 | 6.3*7 | 26 |
| 10 | | | | | | | 4*7 | 25 | 4*7 | 26 | 5*7 | 30 | 5*7 | 34 | 6.3*7 | 43 |
| 22 | | | 4*7 | 31 | 4*7 | 32 | 5*7 | 39 | 6.3*7 | 41 | 6.3*7 | 47 | 6.3*7 | 53 | 8*7 | 70 |
| 33 | 4*7 | 32 | 4*7 | 32 | 5*7 | 35 | 5*7 | 43 | 6.3*7 | 53 | 6.3*7 | 64 | 8*7 | 76 | 8*7 | 80 |
| 47 | 4*7 | 38 | 5*7 | 38 | 5*7 | 47 | 5*7 | 59 | 6.3*7 | 65 | 8*7 | 83 | 8*7 | 85 | 8*7 | 95 |
| 100 | 5*7 | 61 | 5*7 | 71 | 5*7 | 80 | 6.3*7 | 90 | 8*7 | 100 | 8*7 | 115 | | | | |
| 150 | 5*7 | 75 | 6.3*7 | 85 | 6.3*7 | 98 | 8*7 | 109 | 8*7 | 123 | | | | | | |
| 180 | 6.3*7 | 85 | 8*7 | 95 | 8*7 | 108 | 8*9 | 115 | 8*9 | 128 | | | | | | |
| 220 | 6.3*7 | 90 | 6.3*7 | 99 | 6.3*7 | 118 | 8*9 | 135 | | | | | | | | |
| 330 | 6.3*7 | 129 | 8*7 | 150 | | | | | | | | | | | | |
| 470 | 8*9 | 150 | 8*9 | 170 | | | | | | | | | | | | |



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| Chip Type SMD |
| Miniature Type |
| General Purpose |
| High Frequency Low Impedance |
| High Voltage High Reliability |
| Non-polar Type |
| Large Size Snap-in |
| Large Size Screw |
| X Metallized Polypropylene Film Capacitors |

Ripple Current : mA/rms at 120Hz 85°C