

TH Series

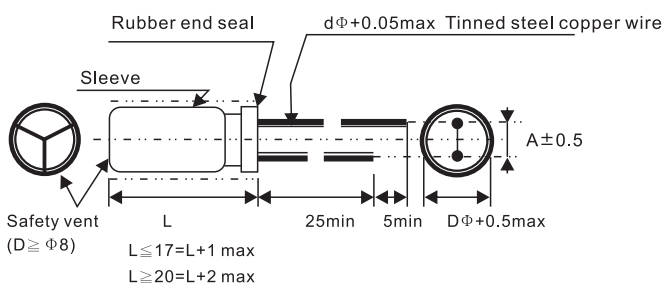
• 125°C, 1000 hours standard series (紋波疊加)



• SPECIFICATIONS

| Items | Characteristics | | | | | | |
|---------------------------------|---|---------------------------------------|------|------|------|------|------|
| Category Temperature Range | - 40 to +125°C | | | | | | |
| Rated Voltage Range | 10vto 63Vdc | | | | | | |
| Capacitance Tolerance | ± 20% (M) (at 20°C ,120Hz) | | | | | | |
| Leakage Current | I=0.01CV or 4 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) | 10V | 16V | 25V | 35V | 50V | 63V |
| | tan δ (Max.) | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 |
| Low Temperature Characteristics | Impedance ration max at 120Hz | | | | | | |
| | Working voltage | 10v | 16v | 25v | 35v | 50v | 63v |
| | Z-25°C/ Z+20°C | 3 | 2 | 3 | 2 | 2 | 2 |
| | Z-40°C/ Z+20°C | 6 | 4 | 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 1000 hours at 125°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 1000 hours at 125°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 | 75 | 85 | 105 | 125 | |
| | Factor | 2.20 | 2.10 | 2.00 | 1.75 | 1.00 | |
| | Frequency coefficient | | | | | | |
| | cap | freq | 60 | 120 | 1k | 10k | 100k |
| | ~100 | | 0.70 | 1.00 | 1.70 | 1.85 | 2.00 |
| | 100~1000 | | 0.75 | 1.00 | 1.45 | 1.55 | 1.65 |
| 1000up | | 0.80 | 1.00 | 1.20 | 1.25 | 1.30 | |

• Diagram: (Unit: mm)



| | | | | | | |
|--------------|-----|-----|-----|--------|--------|-----|
| Body Dia ΦD | 5 | 8 | 10 | 13 | | 16 |
| | | | | L ≤ 21 | L ≥ 25 | |
| Lead Dia Φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 |
| Lead Space A | 2 | 3.5 | | 5 | | 7.5 |



● STANDARD RATING

| μF \ Vdc | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | | | | | | |
|---------------|---|-----|-------|-----|-----------------|------------|-------|-----|-------|-----|-------|-----|------|----|------|------|------|
| 0.47 | | | | | | | | | | | 8*12 | 12 | | | | | |
| 1 | Case size $\Phi D \times L$ (mm) Rated ripple current (mA _{rms}) at 125°C, 120Hz | | | | | | | | | | 8*12 | 17 | | | | | |
| 2.2 | | | | | | | | | | | | | | | 8*12 | 26 | |
| 3.3 | | | | | | | | | | | | | | | | 8*12 | 32 |
| 4.7 | | | | | | | | | | | | | | | | 8*12 | 38 |
| 10 | | | | | | | | | | | | | 5*11 | 45 | 8*12 | 55 | 8*12 |
| 22 | | | | | | | 8*12 | 75 | 10*13 | 95 | 10*13 | 95 | | | | | |
| 33 | | | | | | | 10*13 | 108 | 10*17 | 135 | 10*17 | 135 | | | | | |
| 47 | | | 8*12 | 100 | 10*13 | 95 | 10*17 | 145 | 10*17 | 160 | 10*20 | 165 | | | | | |
| 100 | 10*12.5 | 154 | 10*16 | 190 | 6.3*11 10*17 | 150 210 | 10*20 | 230 | 10*20 | 230 | 13*21 | 245 | | | | | |
| 220 | 10*17 | 252 | 10*20 | 310 | 13*21 | 376 | 13*25 | 408 | 13*21 | 280 | 13*21 | 280 | | | | | |
| 330 | 10*17 | 305 | 13*21 | 425 | 13*25 | 495 | 16*20 | 506 | | | | | | | | | |
| 470 | 10*20 | 380 | 13*25 | 515 | 16*20 | 608 | | | | | | | | | | | |
| 1000 | 10*25 | 720 | | | | | | | | | | | | | | | |

Ripple Current : mA/rms at 120Hz 125°C

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