

TD Series

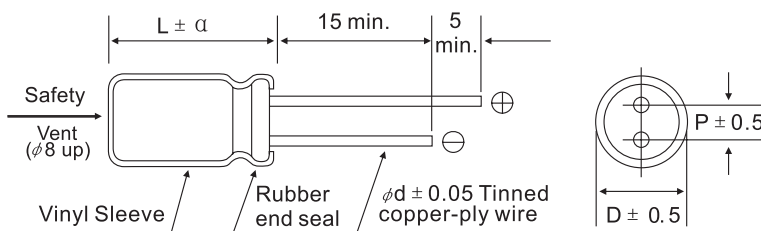


- Endurance with ripple current : 105°C 8,000 hours or 130°C 2,000 hours
- Especially designed for electronic ballast
- For electronic ballast and energy-save lamp and other long life applications
- RoHS Compliant

■ 規格表 SPECIFICATIONS

| 項目 Items | 特性參數 Characteristics | | | |
|--|---|-------------------------------|---------|---|
| 使用溫度範圍 Category Temperature Range | -40 ~ +130°C (160 ~ 400V) -25 ~ +130°C (450V) | | | |
| 額定工作電壓範圍 Rated Voltage Range | 160 ~ 450V | | | |
| 靜電容量允許偏差 Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | |
| 漏電流 Leakage Current | Time | After 2minute 2分鐘讀數 | | after application of rated Voltage for 2 minutes. 施加工作電壓2分鐘後讀數。 I:漏電流 (µA)、C: 靜電容量 (µF)、額定電壓 (V) |
| | WV | | | |
| | WV=160~400 | I=0.02CV+10 | | |
| | WV=450 | I=0.03CV+10 | | |
| 損耗角正切值 tan δ Dissipation Factor | Rated voltage(V) | 160~400 | 450 | (at 20°C, 120Hz) |
| | tan δ (Max.) | 0.08 | 0.12 | |
| 低溫特性 Low temperature Characteristics (Max. Impedance Ratio) | 電容器低溫的阻抗比值，不應超過下表所列出的值 Impedance ratio values must not exceed values listed in below table. | | | |
| | Rated voltage(V) | 160~250 | 350~400 | 450 |
| | Z(-25°C)/Z(+20°C) | 3 | 5 | 6 |
| | Z(-40°C)/Z(+20°C) | 6 | 6 | - |
| 耐久性 Endurance | 施加額定工作電壓和額定紋波電流，恢復到20°C後，產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current . | | | |
| | Capacitance change | ≅ ±20% of the initial value | | |
| | D.F. (tan δ) | ≅ 200% of the specified value | | |
| | Leakage current | ≅ The specified value | | |
| 高溫儲存特性 Shelf Life | 105°C存放1000小時，恢復到20°C後，產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied. | | | |
| | Capacitance change | ≅ ±20% of the initial value | | |
| | D.F. (tan δ) | ≅ 200% of the specified value | | |
| | Leakage current | ≅ 500% of the specified value | | |

■ 外形圖 DIMENSIONS (mm)



| ΦD | 8 | 10~13 | 16~18 | 20 |
|----|-----|-------|-------|-----|
| P | 3.5 | 5.0 | 7.5 | 10 |
| Φd | 0.5 | 0.6 | 0.8 | 0.8 |

| | |
|---|------------|
| α | (L<20) 1.5 |
| | (L≧20) 2.0 |

■ 紋波電流補正係數 RATED RIPPLE CURRENT COEFFICIENT

- 頻率係數 Frequency Coefficient

| Rated Voltage | Frequency(Hz) | 120 | 1k | 10k | 100k |
|---------------|---------------|------|------|------|------|
| 160 ~ 250V | | 0.55 | 0.84 | 0.91 | 1.00 |
| 350 ~ 450V | | 0.50 | 0.81 | 0.91 | 1.00 |

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■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

| WV(V) Cap(μF) | 160(2C) | | 200(2D) | | 250(2E) | | 350(2V) | | 400(2G) | | 450(2W) | |
|------------------|---------|-------|---------|-------|---------|-------|--|-----|---------|-----|---------|-----|
| 1.0 | | | | | | | 8×12 | 60 | 8×12 | 65 | 8×16 | 70 |
| 1.5 | | | | | | | 10×13 | 65 | 10×13 | 75 | 10×16 | 80 |
| 1.8 | | | | | | | 10×16 | 68 | 10×16 | 80 | 10×16 | 85 |
| 2.2 | | | | | 8×12 | 70 | 10×16 | 81 | 10×16 | 82 | 10×16 | 85 |
| 2.8 | | | 8×12 | 70 | 10×13 | 80 | 10×16 | 85 | 10×16 | 90 | 10×16 | 90 |
| 3.3 | 8×12 | 80 | 8×12 | 81 | 10×20 | 88 | 10×16 | 95 | 10×16 | 100 | 10×16 | 100 |
| 4.7 | 10×13 | 85 | 10×13 | 91 | 10×16 | 100 | 10×20 | 120 | 10×20 | 115 | 10×20 | 115 |
| 5.6 | 8×16 | 90 | 8×16 | 98 | 10×16 | 100 | 10×20 | 138 | 10×20 | 125 | 13×20 | 125 |
| 6.8 | 8×16 | 100 | 8×16 | 105 | 10×16 | 105 | 13×20 | 200 | 13×20 | 200 | 13×20 | 200 |
| 8.2 | 10×16 | 110 | 10×16 | 115 | 10×16 | 110 | 13×20 | 215 | 13×20 | 235 | 13×20 | 250 |
| 10 | 10×16 | 225 | 10×16 | 225 | 10×20 | 250 | 13×20 | 250 | 13×20 | 250 | 13×20 | 285 |
| 15 | 10×16 | 380 | 10×20 | 380 | 10×20 | 406 | 13×25 | 272 | 13×25 | 290 | 13×25 | 380 |
| 22 | 10×20 | 450 | 13×20 | 450 | 13×20 | 538 | 16×26 | 313 | 16×26 | 385 | 16×30 | 505 |
| 33 | 13×20 | 450 | 13×20 | 540 | 13×25 | 538 | 16×30 | 450 | 16×30 | 575 | 16×35 | 630 |
| 47 | 13×25 | 595 | 13×25 | 595 | 16×26 | 650 | 16×35 | 595 | 18×35 | 755 | 20×35 | 790 |
| 68 | 16×26 | 695 | 16×26 | 685 | 16×30 | 830 | 20×35 | 765 | 20×35 | 900 | 18×35 | 815 |
| 100 | 16×26 | 1,005 | 16×35 | 1,005 | 18×30 | 1,085 | <p>Rated ripple current (mA rms) at 105°C, 100KHz</p> <p>Case size ΦDXL (mm)</p> | | | | | |
| 150 | 18×30 | 1,225 | 18×35 | 1,225 | 22×35 | 1,350 | | | | | | |
| 220 | 20×35 | 1,260 | 22×35 | 1,535 | | | | | | | | |