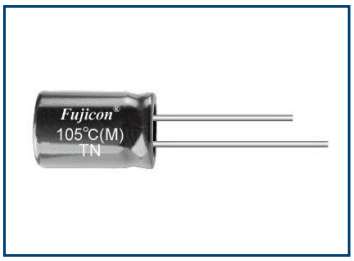
# TN Series

## ULTRA-LOW ESR
## 超低等效串聯電阻品







- Ultra-low ESR at high frequency
  高頻，超低等效串聯電阻
- Ideally suited for use of switching power supplies
  適用於開關電源
- Endurance 5000 hours
  (2000~3000 hours for smaller case sizes as specified below)
  耐久性 5000 小時（小尺寸為 2000~3000 小時）
- Comply with the RoHS & REACH
  符合 RoHS 與 REACH




## ☐ SPECIFICATIONS 特性表

| Items 項目 | Characteristics 主要特性 | |
|---|---|---|
| **Category Temperature Range** 工作溫度範圍 | -40 ~ +105°C | -25 ~ +105°C |
| **Voltage Range** 額定工作電壓範圍 | 6.3 ~ 63V | 160 ~ 450V |
| **Capacitance Range** 靜電容量範圍 | 1 ~ 15000μF | 22 ~ 330μF |
| **Capacitance Tolerance** 靜電容量允許偏差 | ±20% at 120Hz, 20°C | |
| **Leakage Current** 漏電流 | Leakage current ≤0.01CV or 3μA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤0.01CV 或 3μA，取較大值（在 20°C 環境中施加額定工作電壓 2 分鐘後） | Leakage current ≤0.02CV + 15μA (after 5 minutes application of rated voltage at 20°C) 漏電流 ≤0.02CV + 15μA（在 20°C 環境中施加額定工作電壓 5 分鐘後） |
| | C: Nominal capacitance (μF) 標稱靜電容量, V: Rated voltage (V) 額定電壓 | |
| **Dissipation Factor (tan δ)** 損耗角正切 | When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. 當標稱靜電容量大於 1000μF，其標稱靜電容量每增加 1000μF，損耗角正切增加 0.02。 Measurement frequency 測試頻率: 120Hz, Temperature 温度: 20°C | |

| Rated Voltage (V) 額定工作電壓 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160~250 | 350~450 |
|---|---|---|---|---|---|---|---|---|---|---|
| tan δ (max.) 最大損耗角正切 | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.15 | 0.20 |

**Stability at Low Temperature** 低溫特性

Measurement frequency 測試頻率: 120Hz

| Rated Voltage (V) 額定工作電壓 | | 6.3, 10 | 16~35 | 50, 63 | 100 | 160~250 | 350~450 |
|---|---|---|---|---|---|---|---|
| Impedance Ratio 阻抗比 | Z(-25°C) / Z(+20°C) | 4 | 3 | 2 | 2 | 3 | 8 |
| | Z(-40°C) / Z(+20°C) | 4 | 3 | 2 | 2 | — | — |

**Endurance** 耐久性

The characteristics listed below shall be satisfied when the capacitors are restored to 20°C after subject to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for the specified period of time at 105°C.
在 105°C 環境中的規定時間內施加額定紋波電流（峰值電壓不得超過額定電壓）後，電容器經直流電壓後恢復至 20°C 時，應符合下表參數要求。

| Size (mm) 尺寸 | Life time (hours) 壽命（小時） |
|---|---|
| ∅D5, ∅6.3 | 2000 |
| ∅D8 | 3000 |
| ∅D≥10 | 5000 |

| | |
|---|---|
| Capacitance Change 靜電容量變化率 | Within ±20% of initial measured value 初始值的±20%以內 |
| Dissipation Factor 損耗角正切 | ≤200% of initial specified value 不大於規範值的 200% |
| Leakage Current 漏電流 | ≤initial specified value 不大於規範值 |

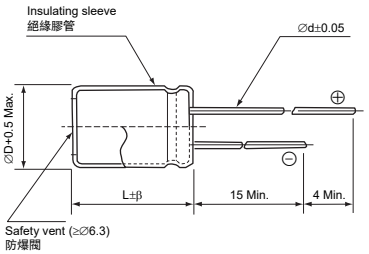
**Shelf Life** 高溫貯存特性

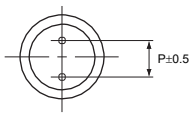
When the capacitors are restored to 20°C after leaving under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
在 105°C 環境中無負荷放置 1000 小時後，待電容器恢復至 20°C 時進行測量，電容器的特性符合耐久性特性中所列的規定值。

**Marking** 標識

Printed with white colour on black sleeve (PVC) or printed with white colour on green sleeve (PET).
黑色膠管白字印刷（PVC）或綠色膠管白字印刷（PET）。

## ☐ DRAWING 外形圖 (Unit: mm)




| ∅D | 5 | 6.3 | 8 (L≤11.5) | 8 (L≥16) | 10 | 13 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|
| P | 2.0 | 2.5 | 3.5 | | 5.0 | | 7.5 | |
| ∅d | 0.5 | | | 0.6 | | | 0.8 | |
| β | 1.5 | | | | | 2.0 | | |

## ☐ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 紋波電流頻率補償系數

| Frequency 頻率 | | 50Hz | 120Hz | 300Hz | 1KHz | 10KHz~ |
|---|---|---|---|---|---|---|
| Coefficient 系數 | 1 ~ 47μF | 0.75 | 1.00 | 1.35 | 1.55 | 2.0 |
| | 68 ~ 680μF | 0.80 | 1.00 | 1.25 | 1.34 | 1.5 |
| | 1000 ~ 15000μF | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5~10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. 鋁電解電容器在疊加紋波電流後會引起發熱，溫度每上升 5~10°C 壽命會減半。若要保持長壽命性能，請在使用過程中適當降低紋波電流。

**Note:** All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.
**注：**以上所提供的設計及特性參數僅供參考，任何修改不作預先通知。如果在使用上有疑問，請在採購前與我們聯繫，以便提供技術上的協助。

CAT.2026/V2.1

# TN Series

## □ DIMENSIONS & STANDARD RATINGS 規格尺寸及標準參數

| WV / Parameter 參數 / μF | | 6.3 (0J) | | | | 10 (1A) | | | | 16 (1C) | | | | 25 (1E) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz |
| 33 | 330 | | | | | | | | | | | | | 5 × 11 | 0.80 | 88 | 155 |
| 47 | 470 | | | | | 5 × 11 | 0.90 | 75 | 125 | 5 × 11 | 0.80 | 92 | 155 | 6.3×11.5 | 0.55 | 125 | 210 |
| 68 | 680 | | | | | 5 × 11 | 0.80 | 97 | 155 | 6.3×11.5 | 0.50 | 135 | 220 | 6.3×11.5 | 0.36 | 160 | 260 |
| 100 | 101 | 5 × 11 | 0.85 | 99 | 150 | 5 × 11 (6.3×11.5) | 0.70 (0.55) | 115 (135) | 185 (210) | 6.3×11.5 | 0.35 | 175 | 265 | 6.3×11.5 (8×11.5) | 0.32 (0.24) | 195 (254) | 312 (383) |
| 150 | 151 | 6.3×11.5 | 0.49 | 155 | 225 | 6.3×11.5 | 0.35 | 185 | 265 | 8 × 11.5 | 0.23 | 270 | 388 | 8 × 11.5 | 0.16 | 320 | 460 |
| 220 | 221 | 6.3×11.5 | 0.30 | 205 | 285 | 6.3×11.5 (8×11.5) | 0.30 (0.24) | 225 (283) | 305 (387) | 6.3×11.5 (8 × 11.5) | 0.25 (0.16) | 300 (335) | 410 (460) | 8 × 11.5 (10×12) | 0.14 (0.13) | 370 (435) | 500 (600) |
| 330 | 331 | 6.3×11.5 (8×11.5) | 0.26 (0.20) | 220 (223) | 290 (292) | 6.3×11.5 (8×11.5) | 0.20 (0.16) | 305 (350) | 425 (460) | 8 × 11.5 (10×12) | 0.14 (0.12) | 400 (480) | 520 (625) | 8 × 16 (10×12) | 0.12 (0.10) | 450 (595) | 545 (680) |
| 470 | 471 | 8 × 11.5 (10×12) | 0.18 (0.14) | 325 (455) | 435 (575) | 8 × 11.5 (10×12) | 0.15 (0.13) | 405 (475) | 575 (600) | 8 × 11.5 (10×12) | 0.12 (0.10) | 575 (520) | 645 (680) | 10 × 16 (10×20) | 0.084 (0.065) | 680 (810) | 890 (1020) |
| 680 | 681 | 10 × 16 | 0.11 | 580 | 700 | 10 × 12 (10×16) | 0.11 (0.09) | 545 (635) | 650 (770) | 10 × 20 | 0.065 | 845 | 1020 | 10 × 20 (13×21) | 0.054 (0.046) | 985 (1160) | 1165 (1392) |
| 820 | 821 | 8 × 11.5 | 0.12 | 455 | 575 | | | | | | | | | | | | |
| 1000 | 102 | 10 × 12 (10×20) | 0.095 (0.075) | 715 (820) | 865 (950) | 8 × 16 (10×20) | 0.068 (0.060) | 760 (915) | 880 (1060) | 10 × 16 (10×20) | 0.058 (0.055) | 850 (950) | 1060 (1185) | 10 × 20 (13×21) (13×25) | 0.046 (0.043) (0.036) | 1150 (1200) (1430) | 1400 (1475) (1660) |
| 1500 | 152 | 10 × 25 | 0.055 | 1090 | 1220 | 10 × 20 (13×21) | 0.058 (0.045) | 1020 (1266) | 1245 (1417) | 10 × 20 (13×25) | 0.050 (0.036) | 1050 (1490) | 1245 (1660) | 16 × 20 | 0.034 | 1590 | 1770 |
| 2200 | 222 | 10 × 20 (13×21) | 0.050 (0.043) | 1115 (1296) | 1305 (1438) | 10 × 25 (13×25) | 0.038 (0.035) | 1375 (1530) | 1550 (1710) | 13 × 21 (13×25) (16×20) | 0.035 (0.034) (0.033) | 1485 (1545) (1620) | 1695 (1705) (1800) | 13 × 25 (16×25) | 0.030 (0.028) | 1645 (1848) | 1750 (2051) |
| 3300 | 332 | 13 × 25 | 0.034 | 1530 | 1710 | 16 × 20 | 0.031 | 1660 | 1850 | 13 × 25 (16×25) | 0.034 (0.027) | 1700 (1888) | 1725 (2095) | 16 × 35 | 0.020 | 2410 | 2680 |
| 4700 | 472 | 16 × 25 | 0.032 | 1728 | 1935 | 16 × 31 | 0.023 | 2170 | 2420 | 16 × 35 | 0.020 | 2410 | 2680 | 18 × 31 (18×40) | 0.019 (0.018) | 2515 (2660) | 2785 (2960) |
| 6800 | 682 | 16 × 31 | 0.024 | 2130 | 2370 | 16 × 35 | 0.020 | 2410 | 2680 | 18 × 35 | 0.018 | 2610 | 2900 | | | | |
| 10000 | 103 | 16 × 40 | 0.020 | 2470 | 2750 | 18 × 40 | 0.017 | 2730 | 3040 | | | | | | | | |
| 15000 | 153 | 18 × 40 | 0.018 | 2660 | 2960 | | | | | | | | | | | | |

| WV / Parameter 參數 / μF | | 35V (1V) | | | | 50V (1H) | | | | 63V (1J) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 105°C, 120Hz | Ripple current (mA rms) 紋波電流 105°C, 100KHz |
| 1 | 1R1 | | | | | 5 × 11 | 4.00 | 18 | 36 | | | | |
| 1.5 | 1R5 | | | | | 5 × 11 | 3.80 | 22 | 45 | | | | |
| 2.2 | 2R2 | | | | | 5 × 11 | 3.50 | 27 | 54 | | | | |
| 3.3 | 3R3 | | | | | 5 × 11 | 3.00 | 33 | 66 | | | | |
| 4.7 | 4R7 | | | | | 5 × 11 | 2.20 | 40 | 81 | | | | |
| 6.8 | 6R8 | | | | | 5 × 11 | 1.80 | 45 | 91 | | | | |
| 10 | 100 | | | | | 5 × 11 | 1.40 | 57 | 115 | 5 × 11 | 1.06 | 67 | 135 |
| 15 | 150 | | | | | 5 × 11 | 0.93 | 72 | 145 | 6.3 × 11.5 | 0.73 | 92 | 185 |
| 22 | 220 | 5 × 11 | 0.75 | 85 | 160 | 5 × 11 (6.3×11.5) | 0.86 (0.65) | 85 (100) | 165 (195) | 6.3 × 11.5 | 0.52 | 110 | 215 |
| 33 | 330 | 6.3 × 11.5 | 0.49 | 125 | 225 | 6.3 × 11.5 | 0.43 | 135 | 240 | 8 × 11.5 | 0.35 | 179 | 320 |
| 47 | 470 | 6.3 × 11.5 | 0.34 | 160 | 270 | 6.3 × 11.5 (8×11.5) | 0.10 (0.30) | 170 (204) | 300 (344) | 8 × 11.5 | 0.25 | 215 | 365 |
| 68 | 680 | 8 × 11.5 | 0.24 | 239 | 384 | 8 × 11.5 | 0.20 | 255 | 410 | 8 × 16 (10 × 12) | 0.28 (0.19) | 250 (310) | 380 (495) |
| 100 | 101 | 8 × 11.5 | 0.16 | 305 | 460 | 8 × 16 (10×16) | 0.18 (0.16) | 315 (385) | 490 (581) | 8 × 16 (10×20) | 0.16 (0.12) | 400 (495) | 615 (750) |
| 150 | 151 | 10 × 12 | 0.12 | 435 | 625 | 10 × 20 | 0.10 | 570 | 820 | 10 × 25 | 0.09 | 665 | 950 |
| 220 | 221 | 8 × 16 (10×12) (10×16) | 0.12 (0.10) (0.09) | 485 (520) (560) | 700 (735) (770) | 10 × 16 (10×20) (10×25) | 0.09 (0.09) (0.075) | 615 (650) (760) | 850 (900) (1040) | 10 × 20 (13×21) | 0.080 (0.065) | 785 (835) | 1010 (1140) |
| 330 | 331 | 10 × 16 (10×20) | 0.063 (0.060) | 745 (810) | 1000 (1060) | 10 × 20 (13×21) | 0.058 (0.055) | 885 (978) | 1150 (1281) | 13 × 21 (13×25) | 0.056 (0.049) | 945 (1090) | 1295 (1420) |
| 470 | 471 | 10 × 20 (13×21) | 0.050 (0.046) | 995 (1112) | 1300 (1401) | 10 × 20 (13×21) | 0.054 (0.050) | 980 (1085) | 1285 (1385) | 13 × 25 (16×25) | 0.045 (0.042) | 1220 (1350) | 1580 (1700) |
| 680 | 681 | 13 × 25 | 0.036 | 1370 | 1660 | 16 × 20 | 0.040 | 1350 | 1630 | 16 × 25 (16×31) | 0.042 (0.032) | 1400 (1700) | 1800 (2050) |
| 1000 | 102 | 16 × 20 | 0.034 | 1330 | 1770 | 16 × 25 (16×31) | 0.036 (0.032) | 1755 (1830) | 1950 (2120) | 16 × 31 (18×31) (18×35) | 0.030 (0.032) (0.029) | 1840 (1840) (1970) | 2180 (2180) (2280) |
| 1500 | 152 | 16 × 31 | 0.028 | 2149 | 2385 | 16 × 35 | 0.026 | 2170 | 2410 | 18 × 35 | 0.026 | 1850 | 2165 |
| 2200 | 222 | 16 × 31 (16×35) | 0.024 (0.020) | 2365 (2410) | 2600 (2680) | 18 × 35 (18×40) | 0.026 (0.024) | 2265 (2300) | 2485 (2560) | | | | |
| 3300 | 332 | 18 × 40 | 0.017 | 2730 | 3040 | | | | | | | | |

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CAT.2026/V2.1

# TN Series

## □ DIMENSIONS & STANDARD RATINGS 規格尺寸及標準參數

| WV / Parameter 參數 / μF | | 100 (2A) | | | | 160 (2C) | | | | 200 (2D) | | | | 250 (2E) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | |
| | | | | 105°C, 120Hz | 105°C, 100KHz | | | 105°C, 120Hz | 105°C, 100KHz | | | 105°C, 120Hz | 105°C, 100KHz | | | 105°C, 120Hz | 105°C, 100KHz |
| 2.2 | 2R2 | 5 × 11 | 2.50 | 25 | 52 | | | | | | | | | 5 × 11 | 0.80 | 88 | 155 |
| 3.3 | 3R3 | 5 × 11 | 2.50 | 30 | 64 | | | | | | | | | 8 × 11.5 | 1.40 | 105 | 200 |
| 4.7 | 4R7 | 5 × 11 | 2.50 | 35 | 76 | | | | | | | | | 8 × 11.5 | 2.00 | 135 | 240 |
| 6.8 | 6R8 | 6.3×11.5 | 1.00 | 70 | 128 | | | | | | | | | 8 × 11.5 | 2.80 | 165 | 275 |
| 10 | 100 | 8 × 11.5 | 0.60 | 125 | 224 | | | | | | | | | 10 × 16 | 3.50 | 170 | 300 |
| 22 | 220 | 8 × 11.5 (10×12) | 0.50 (0.40) | 130 (185) | 285 (319) | 10 × 20 | 1.30 | 310 | 440 | 10 × 20 | 1.50 | 310 | 440 | 13 × 21 | 2.30 | 315 | 480 |
| 33 | 330 | 10 × 16 | 0.30 | 285 | 417 | 10 × 20 | 1.30 | 395 | 565 | 13 × 21 | 0.91 | 390 | 590 | 13 × 25 | 1.70 | 435 | 630 |
| 47 | 470 | 10 × 16 (13×21) | 0.08 (0.15) | 445 (380) | 680 (570) | 13 × 21 | 0.91 | 470 | 725 | 13 × 21 | 0.91 | 515 | 780 | 13 × 25 | 1.70 | 435 | 630 |
| 68 | 680 | 13 × 25 | 0.12 | 490 | 760 | 13 × 25 | 0.63 | 675 | 950 | 13 × 25 | 0.63 | 675 | 950 | 16 × 25 | 0.78 | 765 | 1000 |
| 100 | 101 | 10 × 16 (16×25) | 0.22 (0.07) | 450 (905) | 700 (1250) | 16 × 25 | 0.27 | 980 | 1280 | 16 × 25 | 0.27 | 980 | 1280 | 16 × 31 | 0.63 | 1080 | 1400 |
| 150 | 151 | 16 × 31 | 0.05 | 1080 | 1400 | 16 × 31 | 0.22 | 1015 | 1300 | 18 × 25 | 0.27 | 1190 | 1500 | 18 × 31 | 0.42 | 1100 | 1450 |
| 220 | 221 | 18 × 40 (13×25) | 0.03 (0.13) | 1695 (680) | 1980 (950) | 16 × 31 | 0.22 | 1015 | 1300 | 18 × 31 | 0.22 | 1350 | 1700 | 18 × 40 | 0.35 | 1175 | 1485 |
| 330 | 331 | | | | | 18 × 31 | 0.22 | 1350 | 1700 | | | | | | | | |

| WV / Parameter 參數 / μF | | 350V (2V) | | | | 400V (2G) | | | | 450V (2W) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | | Case size ØD×L (mm) 尺寸 | ESR (Ω) max. 20°C, 100KHz 等效串聯電阻 | Ripple current (mA rms) 紋波電流 | |
| | | | | 105°C, 120Hz | 105°C, 100KHz | | | 105°C, 120Hz | 105°C, 100KHz | | | 105°C, 120Hz | 105°C, 100KHz |
| 3.3 | 3R3 | | | | | 8 × 11.5 | 4.80 | 60 | 110 | 10 × 20 | 6.50 | 75 | 150 |
| 4.7 | 4R7 | | | | | 8 × 11.5 | 4.20 | 75 | 125 | 13 × 21 | 3.60 | 105 | 200 |
| 10 | 100 | 10 × 20 | 2.90 | 100 | 180 | 10 × 20 | 2.90 | 95 | 180 | 13 × 25 | 2.50 | 185 | 315 |
| 22 | 220 | 13 × 21 | 2.10 | 160 | 270 | 13 × 25 | 1.30 | 175 | 300 | 16 × 25 | 1.70 | 380 | 570 |
| 33 | 330 | 16 × 20 | 0.91 | 365 | 600 | 16 × 20 | 0.91 | 365 | 600 | 16 × 31 | 1.10 | 435 | 620 |
| 47 | 470 | 16 × 25 | 0.73 | 485 | 700 | 16 × 25 | 0.73 | 485 | 700 | 18 × 31 | 0.93 | 650 | 900 |
| 68 | 680 | 16 × 31 | 0.49 | 845 | 1100 | 16 × 31 | 0.49 | 845 | 1100 | 18 × 35 | 0.71 | 670 | 980 |
| 100 | 101 | 18 × 31 | 0.40 | 855 | 1170 | 18 × 40 | 0.34 | 975 | 1250 | | | | |


- Please refer to page 21 “Taping Specifications” & page 23 “Lead Forming & Cutting” about the taped or formed product spec. 編帶與引線成型標準請查閱第 21 頁“編帶標準”及第 23 頁“引線成型與剪腳”。
- Please refer to page 22 “Packaging Specifications” for the minimum package quantity. 最小包裝數量請查閱第 22 頁“包裝標準”。
- Please refer to page 18 for the Part Number System. 產品編碼規則請查閱第 18 頁。


**Note:** All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.
**注：**以上所提供的設計及特性參數僅供參考，任何修改不作預先通知。如果在使用上有疑問，請在採購前與我們聯繫，以便提供技術上的協助。