

TZ series

- Snap-in type, 105°C10000 hours long life product.
- Long life. and high ripple current resistance.
- Suitable for computer equipment, inverter air conditioner etc.
- RoHS Compliance
- 基板自立 105°C10000小時長壽命品
- 耐高溫、高紋波。
- 適用於電腦設備、變頻空調等。



SPECIFICATIONS

| Items 項目 | Characteristics 特性 | | | | | |
|---------------------------------------|---|---|---------|------|------|------|
| Capacitance Tolerance 靜電容量誤差 | ± 20%(M) | | | | | |
| Operating Temperature Range 適用溫度範圍 | -25 ~ +105°C | | | | | |
| Rated Voltage Range 額定電壓範圍 | 200 ~ 450VDC | | | | | |
| Leakage Current 洩漏電流 | $I \leq 3\sqrt{CV}$ (µA) or 5mA, which is smaller. (After 5 minutes application of DC rated voltage, at 20 °C) | | | | | |
| Dissipation Factor 散逸因素(tan δ) | Measurement Frequency: 120Hz. Temperature: 20°C | | | | | |
| | Rated Voltage(V) | 160 | 200~400 | 420 | 450 | 500 |
| | tan δ(Max) | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 |
| Temperature Stability 溫度特性 | Measurement Frequency: 120Hz. | | | | | |
| | Rated Voltage(V) | 200~400V | | | 450V | |
| | Z(-25°C)/Z(20°C) | 4 | | | 8 | |
| Load Life 負荷壽命 | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours at 105°C. | | | | | |
| | Capacitance Change | Within ± 20% of the Initial Value | | | | |
| | tan δ | 250% or less of Initial Specified Value | | | | |
| | Leakage Current | Initial Specified Value or less | | | | |
| Shelf Life 放置壽命 | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4. | | | | | |
| | Capacitance Change | Within ± 15% of the Initial Value | | | | |
| | tan δ | 150% or less of Initial Specified Value | | | | |
| | Leakage Current | Initial Specified Value or less | | | | |
| Standards 參照標準 | JIS C 5101-4-1 (IEC 60384) | | | | | |

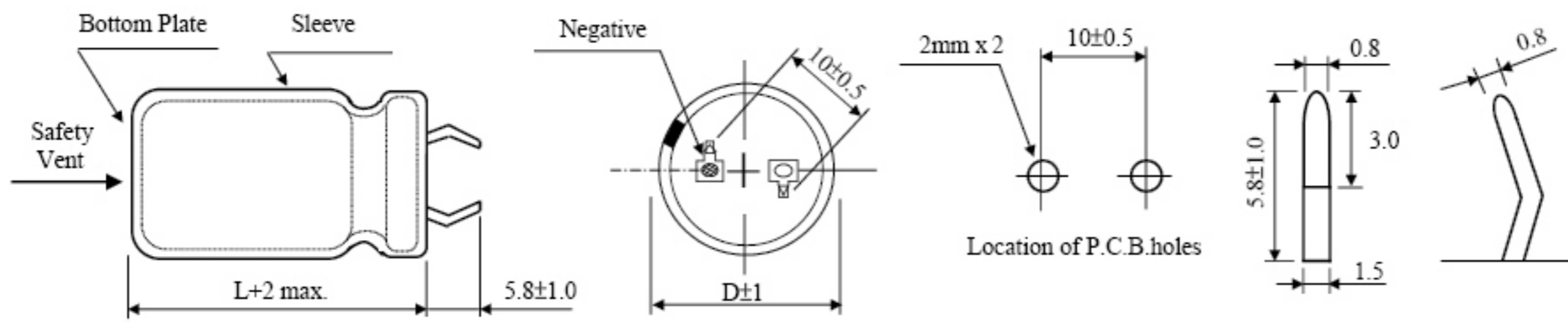
Frequency Coefficient of Permissible Ripple Current

| Rated Voltage (V) | Frequency (Hz) | | | | | |
|-------------------|----------------|------|------|------|------|------|
| | 50 | 120 | 300 | 1K | 10K | 50K |
| 200~250 | 0.81 | 1.00 | 1.17 | 1.32 | 1.45 | 1.50 |
| 400~450 | 0.77 | 1.00 | 1.16 | 1.30 | 1.41 | 1.43 |

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

TZ series

DIMENSIONS(mm)



STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

| Cap (μ F) | V (Code) Item | 200 | | 250 | | 400 | | 450 | |
|-------------------|---------------------|-------|------|-------|------|-------|------|-------|------|
| | | D x L | R.C. | D x L | R.C. | D x L | R.C. | D x L | R.C. |
| 220 | | | | | | 30x35 | 1.01 | 30x40 | 1.05 |
| | | | | | | | | 35x30 | 1.03 |
| 270 | | | | | | 30x40 | 1.20 | 30x45 | 1.20 |
| | | | | | | 35x30 | 1.15 | 35x35 | 1.15 |
| 330 | | | | | | 30x45 | 1.30 | 30x50 | 1.32 |
| | | | | | | 35x35 | 1.28 | 35x40 | 1.35 |
| | | | | | | 40x30 | 1.28 | | |
| 390 | | | | 30x30 | 1.31 | 30x50 | 1.45 | 35x45 | 1.50 |
| | | | | | | 35x40 | 1.45 | | |
| 470 | | | | 30x35 | 1.42 | 35x45 | 1.61 | 35x50 | 1.65 |
| | | | | | | 40x35 | 1.60 | | |
| 560 | | 30x30 | 1.51 | 35x30 | 1.60 | 35x50 | 1.80 | 40x60 | 2.00 |
| | | | | | | 40x40 | 1.80 | | |
| 680 | | 30x35 | 1.65 | 30x45 | 1.78 | 40x50 | 2.05 | | |
| | | | | 35x35 | 1.78 | | | | |
| 820 | | 30x40 | 2.02 | 30x50 | 2.05 | 40x60 | 2.35 | | |
| | | 35x30 | | 35x40 | 2.02 | | | | |
| | | | | 40x30 | 1.98 | | | | |
| 1000 | | 30x45 | 2.21 | 35x45 | 2.20 | | | | |
| | | 35x35 | | 40x35 | 2.30 | | | | |
| | | 40x30 | | | | | | | |
| 1200 | | 35x40 | 2.38 | 35x50 | 2.58 | | | | |
| | | 40x35 | 2.45 | 40x40 | 2.55 | | | | |
| 1500 | | 35x50 | 2.85 | 40x50 | 2.98 | | | | |
| | | 40x40 | 2.80 | | | | | | |
| 1800 | | 40x50 | 3.25 | 40x60 | 3.40 | | | | |