

# 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 greater. (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)	200~400V	450V
	tan δ(Max)	0.15	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)		

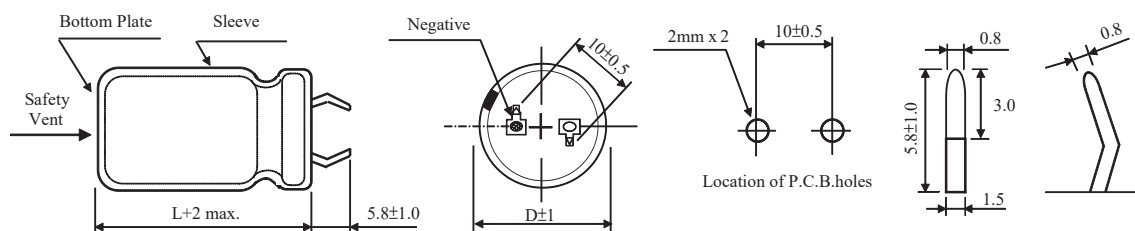
## Frequency Coefficient of Permissible Ripple Current

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.

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## DIMENSIONS(mm)



## STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	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
330						30x45	1.30	30x50	1.32
								35x35	1.28
								40x30	1.28
390				30x30	1.31	30x50	1.45	35x45	1.50
470				30x35	1.42	35x45	1.61	35x50	1.65
560	30x30	1.51		35x30	1.60	35x50	1.80	40x60	2.00
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			2.30					
	40x30			2.15					
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				