

HZ

- Down size, load life extend to 3000 hours.
- 105°C, high temperature, high ripple current resistance and high reliability.
- RoHS Compliance
- Done size、壽命3000小時。
- 105°C 耐高溫、高紋波、高信賴性。

SPECIFICATIONS

Items 項目	Characteristics 特性										
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)										
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C						-25 ~ +105°C				
Rated Voltage Range 額定電壓範圍	16 ~ 250VDC						350 ~ 450VDC				
Leakage Current 洩漏電流	I ≤ 3√CV (μA) (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)	16	25	35	50	63	80	100	160	200~250	350~450
	tan δ(Max)	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.15	0.20
	When nominal capacitance over 1000μF, tanδ shall be added 0.01 to the listed value with increase of every 1000μF .										
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.										
	Rated Voltage(V)	16	25	35	50	63	80	100	160~250	350~450	
	Z(-25°C)/Z(20°C)	6	6	4	4	4	4	4	4	4	8
	Z(-40°C)/Z(20°C)	16	15	10	10	8	6	6	6	15	-
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 3,000 hours at 105°C.										
	Capacitance Change		Within ± 20% of Initial Value								
	tan δ		200% 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 Initial Value								
	tan δ		200% or less of Initial Specified Value								
	Leakage Current		Initial Specified Value or less								
Standards 參照標準	JIS C 5101-4 (IEC 60384)										

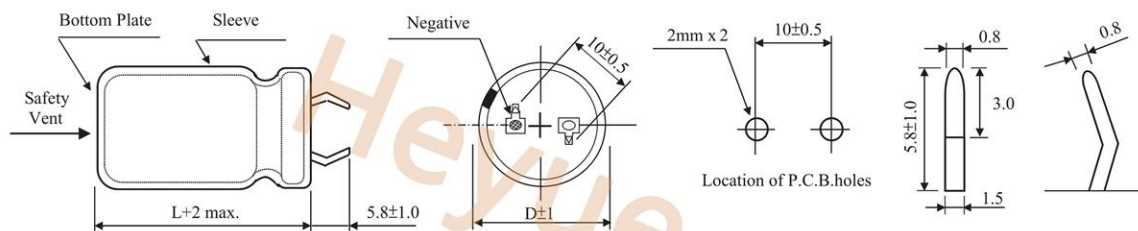
Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)				
	50	120	1K	10K	100K
16 ~ 100	0.88	1.00	1.05	1.10	1.15
160 ~ 250	0.85	1.00	1.20	1.30	1.50
350 ~ 450	0.88	1.00	1.20	1.25	1.40

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.

注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知，如有使用上任何疑问，请在采购前与我们联系，以便提供技术上的协助。

DIMENSIONS(mm)



STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	V	16		25		35		50		63		80		100	
Item		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
560														20x25	0.95
680														20x30	1.15
820												20x25	1.04	20x35	1.32
1000										20x25	1.35	20x30 22x25	1.24	20x35 22x30	1.47
1500								20x25	1.02	20x30 22x25	1.47	20x35 22x30	1.59	22x40 25x35	1.98
2200								20x30 22x25	1.60	20x40 22x35	1.82	22x40 25x30	2.03	25x45 30x35	2.55
2700						20x25	1.29	20x35 22x30	1.73	22x35 25x30	2.11	22x45 25x35	2.39	25x50 30x40	2.89
3300						20x30	1.57	20x40 22x35	1.97	22x45 25x35	2.33	25x40 30x35	2.64	30x45 35x35	3.30
3900				20x25	1.65	22x25	1.78	22x40 25x30	2.22	22x50 25x40	2.55	25x50 30x35	2.97	30x50 35x40	3.67
4700				20x25	1.75	20x35 22x30	2.02	22x45 25x35	2.43	25x45 30x35	2.97	30x40 35x35	3.38	35x45	3.80
6800		20x25	1.50	20x35 22x30	2.11	22x40 25x30	2.41	25x45 30x35	3.30	30x40 35x35	3.65	35x45	4.10	35x50	4.05
8200		20x30	1.70	20x40 22x30	2.34	22x45 25x35	2.85	25x50 30x40	3.60	30x50 35x40	4.04	35x50	4.30		
10000		20x35 22x30	1.85	22x35 25x30	2.65	22x50 25x40	3.05	30x45 35x35	4.05	35x45	4.48				
12000		20x40 22x30	2.01	22x40 25x30	2.81	25x45 30x35	3.37	30x50 35x40	4.56	35x50	4.75				
15000		22x35 25x30	2.39	22x45 25x35	3.13	25x50 30x40	3.72	35x50	4.77						
18000		22x40 25x30	2.90	25x40 30x30	3.56	30x45 35x35	4.37								
22000		22x45 25x35	3.10	25x50 30x35	4.04	30x50 35x40	4.92								
27000		22x50 25x40	3.55	30x45 35x35	4.74	35x50	5.30								
33000		25x45 30x35	4.05	30x50 35x40	5.50										
39000		25x50 30x40	4.55	35x45	5.80										
47000		30x45 35x40	5.36	35x50	6.30										
56000		30x50 35x45	5.60												

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STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	V	160		200		250		350		400		450	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
47										22x25	0.45	22x25	0.43
68										22x25	0.50	22x30	0.50
82								22x30	0.55	22x25	0.65	22x30 25x25	0.60
100								22x30 22x25	0.60	22x30 25x25	0.68	22x35 25x30	0.70
120								22x30 25x25	0.70	22x35 25x25	0.75	22x40 25x30	0.78
150						22x25	0.65	22x35 25x30	0.83	22x40 25x30	0.85	22x45 25x35	0.89
220		20x25	1.10	20x25	1.00	20x30 22x25	1.00	22x45 25x35	1.05	22x50 25x40	1.05	25x45 30x35	1.15
330		20x30 22x25	1.21	20x30	1.25	20x40 22x35	1.20	25x45 30x35	1.35	30x40 35x30	1.35	30x50 35x40	1.45
390		20x30 22x25	1.30	22x30 25x25	1.31	22x40 25x30	1.35	25x50 30x40	1.52	30x45 35x35	1.75	35x40	1.65
470		20x35 22x30	1.41	22x35 25x30	1.45	22x45 25x35	1.57	30x45 35x35	1.65	35x40	1.85	35x50	1.85
560		20x40 22x35	1.54	22x40 25x30	1.60	22x50 25x40	1.80	30x50 35x40	1.90	35x45	2.05		
680		20x45 22x40	1.74	22x45 25x35	1.78	25x45 30x35	2.00	35x45	2.00	35x50	2.45		
820		20x45 25x35	2.00	22x50 25x40	1.95	25x50 30x40	2.18	35x55	2.30				
1000		22x50 25x40	2.25	25x45 30x35	2.30	30x45 35x35	2.35						
1200		25x45 30x35	2.49	30x40 35x35	2.65	35x40	2.50						
1500		30x40 35x30	2.84	30x50 35x40	3.08	35x50	3.00						
2200		35x45	3.50	35x50	3.55								
2700		35x50	4.00										

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