

HLX

- Snap-in type, 85°C 2000 hours standard product.
- Suitable for filter circuit of home appliance, e.g. TV set, audio, etc.
- RoHS Compliance
- 基板自立 85°C 2000小時標準品。
- 適用於家電產品輸入/輸出電源的濾波迴路，如電視機、音響等。

SPECIFICATIONS

Items 項目	Characteristics 特性							
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)							
Operating Temperature Range 適用溫度範圍	-40 ~ +85℃				-25 ~ +85℃			
Rated Voltage Range 額定電壓範圍	10 ~ 100VDC				160 ~ 500VDC			
Leakage Current 洩漏電流	I ≤ 3√CV (μA) (After 5 minutes application of DC rated voltage, at 20 ℃)							
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃							
	Rated Voltage(V)	10	16	25	35	50~80	100~250	350~500
	tan δ(Max)	0.50	0.40	0.35	0.30	0.25	0.20	0.25
	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)	10~100			160~250		350~500	
	Z(-25℃)/Z(20℃)	4			4		8	
	Z(-40℃)/Z(20℃)	12			15		-	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85℃.							
	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℃ after exposing them for 1,000 hours 85℃ 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 ± 20% of 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 (IEC 60384)							

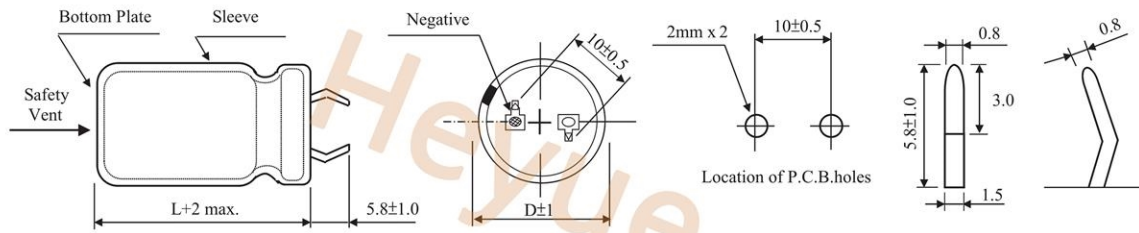
Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Frequency (Hz)			
	50	120	1K	$\geq 10K$
10 ~ 100	0.88	1.00	1.15	1.15
160 ~ 250	0.85	1.00	1.15	1.20
350 ~ 500	0.88	1.00	1.10	1.15

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°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 85°C 120Hz

Cap (μF)	V	10		16		25		35		50		63		80	
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.
820														22x25	1.34
1000												22x25	1.52	22x25	1.64
1500												22x25	1.68	22x30 25x25	1.80
2200										22x25	2.08	22x30 25x25	2.58	22x35 25x30	2.65
2700										22x30	2.32	22x35 25x30	2.80	22x40 25x30	2.82
3300										22x30 25x25	2.65	22x40 25x30	2.88	22x45 25x40	3.30
3900								22x25	2.44	22x35 25x30	2.72	22x45 25x35	3.15	25x45 30x35	3.40
4700						22x25	2.49	22x30 25x25	2.64	22x40 25x35	3.09	22x50 25x40	3.39	25x50 30x40	3.62
6800				22x25	2.40	22x30 25x25	2.57	22x40 25x30	2.81	22x50 25x40	3.86	25x50 30x40	4.34	30x50 35x40	4.68
8200				22x25	2.90	22x35 25x25	2.96	22x45 25x35	3.12	25x50 30x40	4.42	30x45 35x35	4.84	35x45	4.96
10000		22x25	2.08	22x30	3.08	22x40 25x30	3.40	22x50 25x40	3.55	25x50 30x40	4.98	35x40	5.51	35x50	6.08
12000		22x25	2.40	22x30 25x25	3.50	22x45 25x35	3.61	25x45 30x35	4.02	30x50 35x35	5.16	35x50	6.22		
15000		22x30	2.76	22x35 25x30	3.95	25x45 30x35	4.10	30x40 35x35	5.01	35x45	6.45				
18000		22x35 25x25	3.14	22x40 25x35	4.40	25x45 30x35	4.47	30x45 35x40	5.55	35x50	6.72				
22000		22x40 25x30	3.53	22x50 25x40	4.71	25x50 30x45	5.22	35x45	6.02						
27000		22x45 25x35	4.18	25x45 30x35	5.51	30x50 35x40	6.02	35x50	6.85						
33000		22x50 25x40	5.21	25x50 30x40	5.82	35x45	6.78	35x45	6.95						
39000		25x45 30x35	5.30	30x45 35x35	6.36	35x45	7.60	35x50	7.16						
47000		30x40	5.98	30x50 35x40	6.99	35x50	7.88								
56000		30x45	6.60	35x45	7.17										
68000		35x40	7.28	35x50	10.10										

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。

STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 85°C 120Hz

Cap (μF)	V	100		160		200		250		350		400		450		500	
	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.	D x L	R.C.
47												22x25	0.42	22x25	0.46	22x35	0.47
100										22x25	0.77	22x30 25x25	1.05	22x35 25x25	1.10	25x40	1.13
120										22x30 25x25	0.93	22x35 25x25	1.15	22x40 25x30	1.21	25x45	1.25
150								22x25	1.10	22x35 25x30	1.16	22x40 25x30	1.25	22x45 25x35	1.44	25x50 30x35	1.50 1.48
220				22x20	1.12	22x25 25x20	1.37	22x30 25x25	1.44	22x45 25x35	1.47	22x50 25x40	1.76	25x45 30x40	1.77	30x45	1.78
330				22x25 25x20	1.45	22x30 25x25	1.88	22x35 25x30	1.93	25x50 30x40	1.99	30x40 35x30	2.30	30x45 35x40	2.79	35x45	2.81
470				22x30 25x25	1.83	22x40 25x30	2.25	22x45 25x35	2.39	30x50 35x40	2.44	35x45	2.82	35x50	2.92	35x60	3.00
560				22x35 25x30	2.03	22x40 25x30	2.57	25x40 30x35	2.81	35x45	3.29	35x50	3.36	35x55	3.15	35x60	3.03
680	22x25	1.54	22x35 25x30	2.37	22x50 25x40	2.84	25x50 30x40	3.22	35x50	3.44	35x50	3.50	35x60	3.36	35x70	3.27	
820	22x25 25x20	1.88	22x40 25x35	2.75	25x45 30x35	3.35	30x45 35x40	3.51	35x50	3.58	35x60	3.83	35x65	3.59	40x70	3.76	
1000	22x30 25x25	1.94	25x40 30x35	3.22	25x50 30x40	3.79	30x50 35x45	3.94	35x55	3.89	35x65	4.20	35x70	3.81	45x80	4.21	
1200	22x30 25x25	2.11	25x40 30x35	3.41	25x50 30x40	4.08	30x50 35x45	4.45	35x60	4.17	35x70	4.41	40x70	4.01	45x90	4.50	
1500	22x35 25x30	2.47	30x45 35x35	3.96	30x50 35x40	5.02	35x50	5.36	35x65	4.56	40x70	4.52	45x70	4.13	45x100	4.80	
2200	22x45 25x40	3.15	35x45	4.68	35x50	6.09	40x60	6.13	47x75	5.75	45x85	5.64	45x100	5.22			
2700	25x45 30x35	3.72	35x50	5.35													
3300	25x50 30x40	4.06															
3900	30x45 35x35	4.55															
4700	30x50 35x40	5.12															
6800	35x50	5.85															

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。