

Aluminum Electrolytic Capacitor

LH series

- 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	$I \leq 3\sqrt{CV}$ (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 1000 μF , tan δ shall be added 0.01 to the listed value with increase of every 1000 μF .											
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	3000hours,with application of rated voltage 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)										

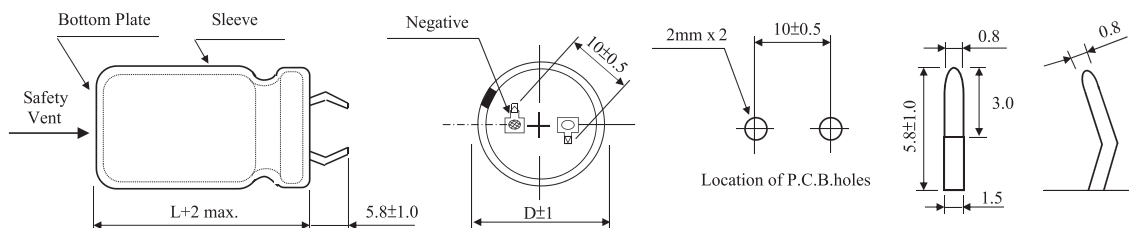
Frequency Coefficient of Permissible Ripple Current

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.

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DIMENSIONS(mm)



STANDARD RATINGS

D×L(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μF)	V (Code) Item	16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		80 (1K)		100 (2A)	
		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

DxL(mm) ; R.C.(A rms) at 105°C 120Hz

Cap (μ F)	V (Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	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										