

ALUMINUM ELECTROLYTIC CAPACITORS

LHB series

LONG LIFE 5000~8000HRS

長壽命 5000~8000 小時

FEATURES 特性

- Load Life: 105°C 5000~8000 hours
壽命: 105°C 5000~8000 小時
- High Ripple Current
高紋波
- For Electronic Ballast, Power Supply
針對電子安定器, 電源供應器使用

SPECIFICATIONS

Item 項目	Performance Characteristics 特性								
Operating Temperature Range 工作溫度範圍	-40°C ~ +105°C								
Rated Voltage Range 額定電壓範圍	160V~500W.V.								
Capacitance Range 靜電容量範圍	1~220 μ F								
Capacitance Tolerance 靜電容量誤差	\pm 20% (20°C, 120Hz)								
Leakage Current 洩漏電流	Nominal Capacitance \leq 10 μ F I=0.02CV +25uA(After 2 minutes) 額定容量 \leq 10 μ F I=0.02CV +25uA(2 分鐘後) Nominal Capacitance > 10 μ F I=0.02CV(After 2 minutes) 額定容量 > 10 μ F I=0.02CV(2 分鐘後)) I=Leakage Current (μ A), C=Nominal Capacitance (μ F), V=Rated Voltage(V) I=洩漏電流 (μ A), C=額定容量 (μ F), V=額定電壓(V)								
Dissipation Factor (tan δ) 散逸因素 (損失角正切值)	Rated voltage (V) 額定電壓(V)	160	200	250	350	400~420	450	500	MAX (20°C, 120Hz)
	Tan δ 損失角正切值	0.15	0.15	0.15	0.20	0.20	0.20	0.20	
Low Temperature Stability Impedance Ratio(MAX) 低溫特性阻抗比率	Rated voltage (V) 額定電壓 (V)	160	200	250	350	400~420	450~500	MAX (120Hz)	
	Z(-25°C)/Z(+20°C)	3	3	3	6	6	6		
	Z(-40°C)/Z(+20°C)	8	8	8	17	17	17		

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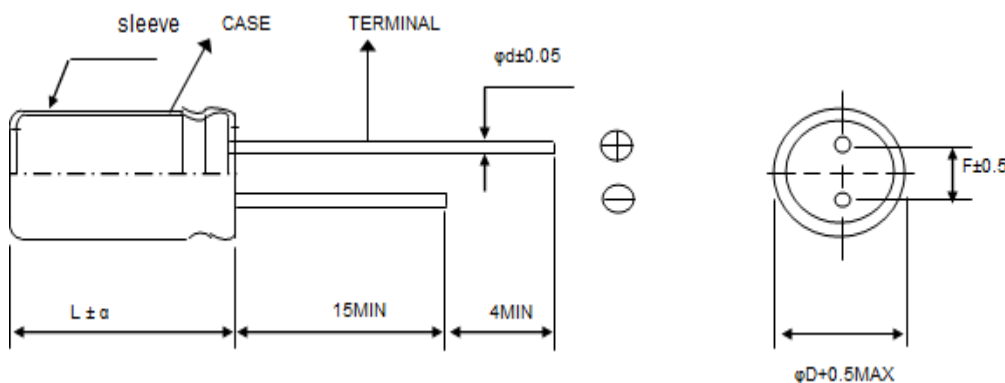
Load Life 負荷壽命	After life test at conditions stated in the table below, the capacitors shall meet the following requirement. 依據以下壽命要求印加額定紋波電流後，電容需符合以下要求。			
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.	Case Dia	Life Time(hrs)
	Capacitance Change 容量變化率	Within $\pm 20\%$ of initial value. 初始值 $\pm 20\%$ 以內	$\varphi D \leq 8$	5000
	Dissipation Factor 散逸因素	Not more than 200% of the specified value. 不超出規格值的 2 倍	$\varphi D \geq 10$	8000
Shelf Life 放置壽命	After leaving capacitors under no load at 105°C for 1000 hours, the capacitors shall meet the following requirements 電容放置在 105°C 無印加電壓的情況下儲存 1000 小時後，電容需符合以下要求。			
	Leakage Current 洩漏電流	Not more than the specified value 不超出規格值.		
	Capacitance Change 容量變化率	Within $\pm 20\%$ of initial value. 初始值 $\pm 20\%$ 以內		
	Dissipation Factor 散逸因素	Not more than 200% of the specified value. 不超出規格值的 2 倍		
Standard 參照標準	According to JIS C-5101 依據 JIS C 5101 標準			

Frequency coefficient

頻率系數

Frequency(Hz)	120	1k	10k	100k \leq
Coefficient	0.70	0.80	0.90	1.00

DIMENSIONS 尺寸(mm)



φD	6.3	8	10	12/12.5/13	16	18
φd	0.5	0.6			0.8	
F	2.5	3.5	5.0		7.5	
α	$L \leq 19: \alpha = 1.5, L \geq 20: \alpha = 2.0$					

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STANDARD SIZES AND RIPPLE CURRENT

尺寸及紋波標準

SIZE ϕ DxL(mm)Ripple Current(mA 105°C 100KHz) r.m.s

W.V		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)		500(2Z)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1	010									6.3x11 8x11.5	45 70			6.3x11 70			
2.2	2R2									8x11.5	100						
3.3	3R3									8x11.5	110						
4.7	4R7									8x11.5 10x16	140 180			8x20 10x16	160 200		
6.8	6R8							10x16	200	8x15 10x16	175 210			10x20 12.5x20	230 290		
8.2	8R2			6.3x11	120												
10	100	6.3x11	100	8x11.5 10x12.5	200 220	8x12 10x20	180 250	10x20	250	8x16 10x16	195 210			10x20 12.5x20	200 290		
15	150			8x11.5 10x12.5	220 240					8x25 10x16 12.5x20	210 260 280			12.5x30	350	12.5x20	385
22	220	10x20	450	10x12.5	260	10x16 12.5x20	500 540	12.5x20	310	12.5x20	300			16x25	500		
33	330	10x20	470	10x16 12.5x20	550 540	12.5x20	570	16x25	450	12.5x20 16x25	330 570			16x16 16x31.5	570 630	16x25	680
47	470	12.5x20	580	12.5x20 12.5x25	570 600	12.5x25	650	16x25	600	12.5x25 16x20 18x20	550 620 570			16x25 18x20	600 680		
56	560									13x30 16x20	660 650	12.5x40	500				
68	680	12.5x25	680	12.5x25	680	16x20	700	16x31.5	760	12.5x50 16x25 18x20	650 750 700						



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SIZE φ DxL(mm)Ripple Current(mA 105°C 100KHz) r.m.s

W.V		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)		500(2Z)	
Cap(μF)		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
82	820					16x20	750			16x30 18x25	830 850	18x25	680	18x30	950		
100	101	16x25	1000	16x25	1000	16x31.5	1100			18x31.5 20x30	1000 1000	18x35	1200	12.5x45 8x30	1050 1250	18x40	1500
120	121			12.5x25	900	16x25	1100			16x30 18x30 20x30	930 950 1100	18x35	1250	16x45 18x31.5 18x40	1450 1400 1550		
150	151	16x31.5	1220	16x31.5	1220	18x31.5	1350					18x40	1600	18x40	1650		
180	181													16x50 18x45	1560 1800		
220	221	16x35.5	1250	18x31.5	1530												