

ALUMINUM ELECTROLYTIC CAPACITORS

LHC series LONG LIFE 5000HRS

FEATURES

- Load Life:105°C 5000 hours
- High Ripple Current
- For Electronic Ballast, Power Supply

SPECIFICATIONS

Item	Performance Characteristics							
Operating Temperature Range	-25°C ~ +105°C							
Rated Voltage Range	160V~450W.V.							
Capacitance Range	1~220 μF							
Capacitance Tolerance	±20% (20°C, 120Hz)							
Leakage Current (MAX)	$I=0.04CV + 100\mu A$ (After 2 minute application of rated voltage) $I=0.02CV + 25\mu A$ (After 5 minutes application of rated voltage) $I=$ Leakage Current(μA) , $C=$ Nominal Capacitance(μF) , $V=$ Rated Voltage(V)							
Dissipation Factor (tan δ)	Rated voltage (V)	160	200	250	350	400~420	450	MAX (20°C, 120Hz)
	Tan δ	0.15	0.15	0.15	0.20	0.20	0.20	
Low Temperature Stability Impedance Ratio	Rated voltage (V)	160	200	250	350	400~420	450	MAX (120Hz)
	$Z(-25^\circ C)/Z(+20^\circ C)$	3	3	3	6	6	6	
Load Life	After life test at conditions stated in the table below, the capacitors shall meet the following requirement							
	Leakage Current	Not more than the specified value.				Case Dia	Life Time(hrs)	
	Capacitance Change	Within ±25% of initial value.				$\phi D=10$	5000	
	Dissipation Factor	Not more than 200% of the specified value.				$\phi D \geq 12.5$	5000	
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above.							
Standard	According to JIS C-5141							

MULTIPLIER FOR RIPPLE CURRENT

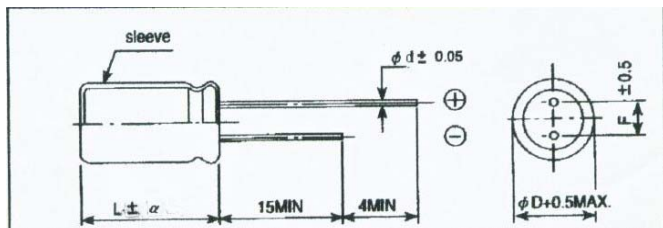
Frequency coefficient

Frequency(Hz)	120	1k	10k	100k ≤
Coefficient	0.5	0.80	0.90	1.00

ALUMINUM ELECTROLYTIC CAPACITORS

LHC series **LONG LIFE 5000HRS**

DIMENSIONS (mm)



φD	10	12.5	16	18
φd	0.6		0.8	
F	5.0		7.5	
α	$L \leq 16: \alpha = 1.5, \quad L \geq 20: \alpha = 2.0$			

STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

SIZE $\varphi D \times L$ (mm)Ripple Current(mA 105°C,100kHz) r.m.s

W.V Cap(μF)		160V (2C)		200V (2D)		250V (2E)		350V (2V)		400V (2G)		420V (2H)		450V (2W)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1	010									6.3X11	50				
4.7	4R7									10x16	150			10x16	100
6.8	6R8							10x16	170	10x16	180			10x16	120
8.2	8R2			10x12.5 10x16	155 160										
10	100			10x12.5	200	10x12.5	220	10x20	220	10x20	230			12.5x20	250
22	220	10x16	400	8x20 10x20	250 400	10x20	480	12.5x20	280	12.5x20 16X20	340 425			16x25	440
33	330	10x20	450	10x20	480	12.5x20	500	16x25	400	12.5x25	510			16x31.5	560
47	470	10x20	530	12.5x20	550	12.5x25	570	16x25	530	16x25 18X20	670 650			16x35.5	700
68	680	12.5x20	610	12.5x25	650	16x25	730	16x31.5	680	18x31.5	800				
82	820									18X25	950				
100	101	12.5x25	900	16x25	950	16x31.5	980								
120	121			16x25	1075					16x35.5	1100	18x40 18x45	1200 1250		
150	151	16x31.5	1100	16x35.5	1200	18x31.5	1300			16x40	1500	18x40	1600		
220	221	16x31.5	1130	16x35.5	1350										