

# ALUMINUM ELECTROLYTIC CAPACITORS

## LHB series LONG LIFE 7000HRS

### FEATURES

- Load Life:105°C 7000 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	4.7~220 μF							
Capacitance Tolerance	±20% (20°C, 120Hz)							
Leakage Current (MAX)	$I=0.04CV + 100\mu A$ (After 2 minutes application of rated voltage) $I=0.02CV + 25\mu A$ (After 5 minutes application of rated voltage) $I$ =Leakage Current( $\mu A$ ) , $C$ =Nominal Capacitance( $\mu F$ ) , $V$ =Rated Voltage( $V$ )							
Dissipation Factor (tan $\delta$ )	Rated voltage (V)	160	200	250	350	400	450	MAX (20°C, 120Hz)
	Tan $\delta$	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	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.				$\phi D=10$	7000	
	Dissipation Factor	Not more than 200% of the specified value.				$\phi D \geq 12.5$	7000	
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

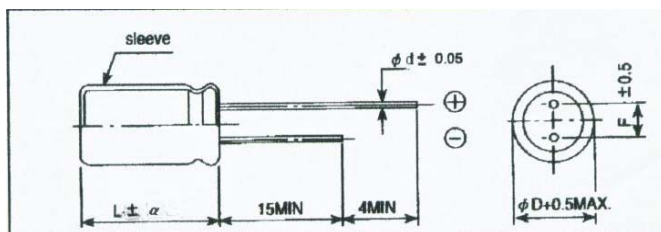
#### Frequency coefficient

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

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### DIMENSIONS (mm)



$\varphi D$	10	12.5	16	18
$\varphi d$	0.6		0.8	
F	5.0		7.5	
$\alpha$	$L \leq 16: \alpha = 1.5, L \geq 20: \alpha = 2.0$			

### STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

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

W.V	Cap(uF)	160V (2C)		200V (2D)		250V (2E)		350V (2V)		400V (2G)		450V (2W)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7	4R7									10x16	180		
6.8	6R8							10x16	200	10x16	210	10x20	130
10	100			10x12.5	220	10x20	250	10x20	250	10x20	260	12.5x20	290
22	220	10x20	450	10x20	450	12.5x20	540	12.5x20	310	12.5x25	380	16x25	500
33	330	10x20	470	12.5x20	540	12.5x20	570	16x25	450	16x25	570	16x31.5	630
47	470	12.5x20	580	12.5x25	600	12.5x25	650	16x25	600	16x31.5	750	18x31.5	790
68	680	12.5x25	680	12.5x25	680	16x25	830	16x31.5	760	18x31.5	900		
100	101	16x25	1000	16x25	1000	16x31.5	1100						
150	151	16x31.5	1220	16x31.5	1220	18x31.5	1350						
220	221	16x35.5	1250	18x31.5	1530								