

ALUMINUM ELECTROLYTIC CAPACITORS

LHX series

SUPER LONG LIFE 12000HRS

FEATURES

- Load Life:105°C 12000 hours
- High Ripple Current
- For Electronic Ballast, Power Supply

SPECIFICATIONS

Item	Performance Characteristics						
Operating Temperature Range	-25°C ~ +105°C						
Rated Voltage Range	160V~400W.V						
Capacitance Range	6.8~220 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	MAX
	Tan δ	0.15	0.15	0.15	0.20	0.20	(20°C, 120Hz)
Low Temperature Stability Impedance Ratio	Rated voltage (V)	160	200	250	350	400	MAX
	Z(-25°C)/Z(+20°C)	3	3	3	6	6	(120Hz)
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.			$\varphi D=10$	12000	
	Dissipation Factor	Not more than 200% of the specified value.			$\varphi D \geq 12.5$	12000	
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

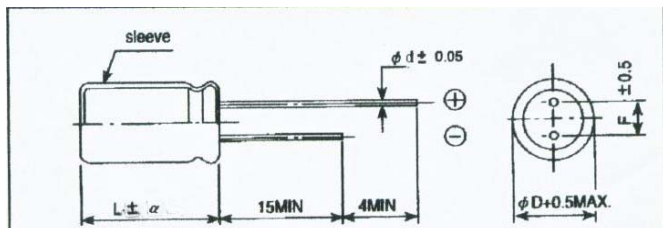
Frequency(Hz)	120	1k	10k	100k ≤
Coefficient	0.5	0.80	0.90	1.00

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DIMENSIONS (mm)



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

STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

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

Cap(uF)	W.V	160V (2C)		200V (2D)		250V (2E)		350V (2V)		400V (2G)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
6.8	6R8							12.5x20	250	12.5x30	250
10	100	10x16	280	10x20	290	12.5x20	320	12.5x20	320	12.5x30	320
22	220	10x20	580	12.5x20	610	12.5x20	690	16x25	400	16x31.5	490
33	330	12.5x20	630	16x25	690	12.5x25	740	16x31.5	570	18x31.5	730
47	470	12.5x25	720	16x31.5	760	16x25	830	16x35.5	760	18x40	960
68	680	16x25	870	16x31.5	870	18x31.5	1050	18x35.5	980		
100	101	16x31.5	1290	18x31.5	1290	18x31.5	1380				
150	151	18x31.5	1560	18x35.5	1560	18x40	1700				
220	221	18x35.5	1610								