

ALUMINUM ELECTROLYTIC CAPACITORS

LHA series SUPER LONG LIFE 9000HRS

FEATURES

- Load Life:105°C 9000 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(μA) , $C=$ Nominal Capacitance(μF) , $V=$ Rated Voltage(V)							
Dissipation Factor (tan δ)	Rated voltage (V)	160	200	250	350	400~420	450	(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	(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.				$\phi D=10$	9000	
	Dissipation Factor	Not more than 200% of the specified value.				$\phi D \geq 12.5$	9000	
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

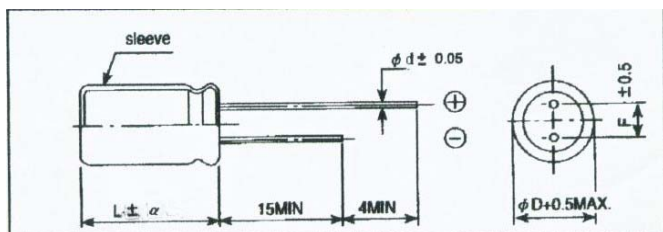
Frequency coefficient

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)		420V (2H)		450V (2W)	
		Size	Ripple	Size	Ripple	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Size	
4.7	4R7							10x16	160						
6.8	6R8							10x16	220	10x16 10x20	200 220	10X20	130	10x20 12.5x20	130 150
10	100	10x16	240	10x16	250	10x20	280	10x20	280	12.5x20	280	12.5X20	230	12.5X20 16x25	235 320
15	150											12.5X25	390	12.5X25	395
22	220	10x20	500	10x20	530	12.5x20	600	12.5x20	350	12.5x25 16x20 16x25	355 390 430	16X25	430	16X20 16x25 16x35.5	415 440 560
33	330	12.5x20	550	12.5x20	600	12.5x20	650	16x25	500	16x31.5	640	16X35.5	650	18X20 18x31.5	625 700
47	470	12.5x20	630	12.5x25	660	16x25	720	16x31.5	660	16x35.5 18x25	840 920	18X31.5	780	18x31.5 18x35.5	790 880
68	680	16x25	760	16x25	760	16x31.5	920	18x31.5	850	18x31.5 18x35.5	960 1000	18x31.5	925	18X35.5	1100
82	820									18x40	1125	18X40	975	18x40	1225
100	101	16x31.5	1120	16x31.5	1120	18x31.5	1200	18X35.5	1200	18X40	1250	18x45	1250		
120	121									18x31.5 18X40	1250 1500				
150	151	16x35.5	1360	18x31.5	1360	18x35.5	1500								
220	221	18x31.5	1400	18x35.5	1650										