ALUMINUM ELECTROLYTIC CAPACITORS

LTA series 105℃ LONG LIFE, HIGH RELIABILITY

FEATURES

- 105℃ Long Life 3000~4000hours
- High Reliability
- High quality

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	－25℃～＋105℃
Rated Voltage Range	160~450W.VV
Capacitance Range	0.47~330uF
Capacitance Tolerance	±20% (120Hz , 20℃)
Leakage Current (MAX)	CV≦1000: I=0.1CV + 40uA(2minutes) / I=0.03CV + 15uA(5minutes); CV＞1000: I=0.04CV +100uA(2minutes) / I=0.02CV +25uA(5minutes); I=Leakage Current(μA) , C=Nominal Capacitance(μF) , V=Rated Voltage(V)

Dissipation Factor (tan δ)

Rated voltage (V)	160	200	250	350	400	450	MAX, (20℃ 120Hz)
Tan δ	0.20	0.20	0.20	0.24	0.24	0.24	

Low Temperature Stability Impedance Ratio

Rated Voltage(V)	160	200	250	350	400	450	
Z(-25℃)/Z(+20℃)	3	3	3	6	6	6	MAX
Z(-40℃)/Z(+20℃)	4	4	4	8	8	10	(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
Capacitance Change	Within ±25% of initial value.
tan δ	Not more than 200% of the specified value

Case Dia	Life Time(hrs)
φD≦8	3000
φD=10	3000
φD≧12.5	4000

Shelf Life

After leaving capacitors under no load at 105℃ 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

Printed with black color letter on orange sleeve according to JIS C 5141

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz) / Cap(uF)	60(50)	120	500	1k	10k≦
0.47-82	0.8	1.0	1.25	1.30	1.50
100-330	0.8	1.0	1.10	1.15	1.20

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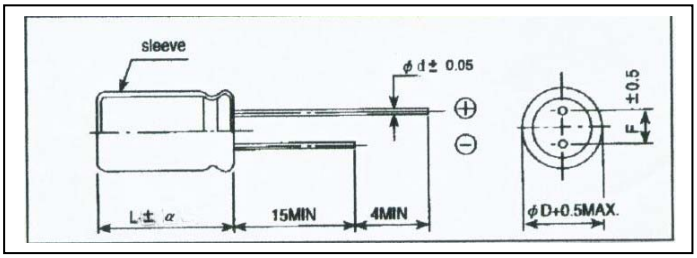
DIMENSIONS (mm)



φD	6.3	8	10	12.5	16	18
φd	0.5	0.6			0.8	
F	2.5	3.5	5.0		7.5	
α	L≦16: α=1.5 , L≧20: α=2.0					

STANDARD SIZES AND PERMISSIBLE RIPPLE CURRENT

Size φDxL(mm) Ripple Current(mA. 105℃,120HZ) r.m.s

W.V / Cap(μF)		160		200		250		350		400		450	
		SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
0.47	R47					6.3x11	9	6.3x11	11				
1	010					6.3x11	13	6.3x11	16	6.3x11	20	6.3x11 (8x11.5)	29
2.2	2R2					6.3x11	23	6.3x11 (8x11.5)	25	6.3x11 8x11.5 (10x12.5)	26 29 29	10x12.5	45
3.3	3R3			6.3x11	26	6.3x11 (8x11.5)	35	8x11.5 (10x12.5)	40	10x12.5	45	10x12.5 (10x16)	65
4.7	4R7	6.3x11	35	6.3x11 (8x11.5)	40	8x11.5	50	10x12.5	60	10x16	65	10x16 (10x20)	85
10	100	8x11.5	60	10x12.5	70	10x12.5 (10x16)	75	10x20	80	10x16 (12.5x20)	85	12.5x20	140
22	220	10x16 10x20	110 120	10x20	125	10x20 (12.5x20) 16x16	130 130 140	12.5x20 (12.5x25)	135	12.5x20 (12.5x25)	140	16x25	200
33	330	10x20	145	10x20 (12.5x20)	165	12.5x20	170	16x25	195	12.5x25 16x20 (16x25)	200 195 200	16x31.5	250
47	470	10x20 (12.5x20)	195	12.5x20	200	12.5x25	220	16x25 (16x31.5)	230	16x25 (16x31.5)	250	16x35.5	282
56	560	12.5x20	211	12.5x20	233	12.5x25	244	16x31.5	255	16x31.5	282	16x35.5	325
68	680	12.5x20	233	12.5x25	253	16x25	275	16x31.5	288	18x25 18x31.5	290 325	18x31.5	375
82	820	12.5x25	258	16x25	290	16x25	312	18x31.5	325	18x31.5	375	18x35.5	440
100	101	12.5x25	290	16x25	335	16x31.5	360	18x31.5 (18x35.5)	375	18x31.5 (18x35.5)	440 480	18x35.5	510
120	121	16x25	330	16x31.5	385	18x31.5	415	18x35.5	430	18x35.5	510		
220	221	16x31.5 (16x35.5)	540	16x35.5 (18x35.5)	580	18x35.5	710						
330	331	18x35.5	700	18x35.5	785	18x40	885						

- **18x31.5 Is available for marked, when specified.**