

ALUMINUM ELECTROLYTIC CAPACITORS

LTA series

105°C LONG LIFE, HIGH RELIABILITY

105°C 長壽命, 高信賴度

FEATURES 特性

- 105°C Long Life 3000 hours
105°C 長壽命 3000 小時
- High Reliability
高信賴度
- High Quality
高品質

SPECIFICATIONS

Item 項目	Performance Characteristics 特性									
Operating Temperature Range 工作溫度範圍	-40℃~+105℃									
Rated Voltage Range 額定電壓範圍	160~500W.VV									
Capacitance Range 靜電容量範圍	0.47~470uF									
Capacitance Tolerance 靜電容量誤差	±20% (120Hz , 20℃)									
Leakage Current 洩漏電流	Nominal Capacitance ≤ 10 μ F I=0.02CV +25uA(After 2 minutes) 額定容量 ≤ 10 μ F I=0.02CV +25uA(2 分鐘後) Nominal Capacitance > 10 μ F I=0.02CV(After 2 minutes) 額定容量 > 10 μ F I=0.02CV(2 分鐘後)) I=Leakage Current(μ A) , C=Nominal Capacitance(μ F) , V=Rated Voltage(V) I=洩漏電流 (μ A) , C=額定容量(μ F) , V=額定電壓(V)									
Dissipation Factor (tan δ) 散逸因素 (損失角正切值)	Rated voltage (V) 額定電壓(V)	160	200	250	350	400	420	450	500	MAX, (20℃ 120Hz)
	Tan δ 損失角正切值	0.15	0.15	0.15	0.20	0.20	0.20	0.20	0.20	
Low Temperature Stability Impedance Ratio(MAX) 低溫特性阻抗比率	Rated voltage (V) 額定電壓(V)	160~200		250	400	450	500	MAX		
	Z(-25℃)/Z(+20℃)	3		5	8	8	8	(120Hz)		
	Z(-40℃)/Z(+20℃)	8		8	17	17	17			

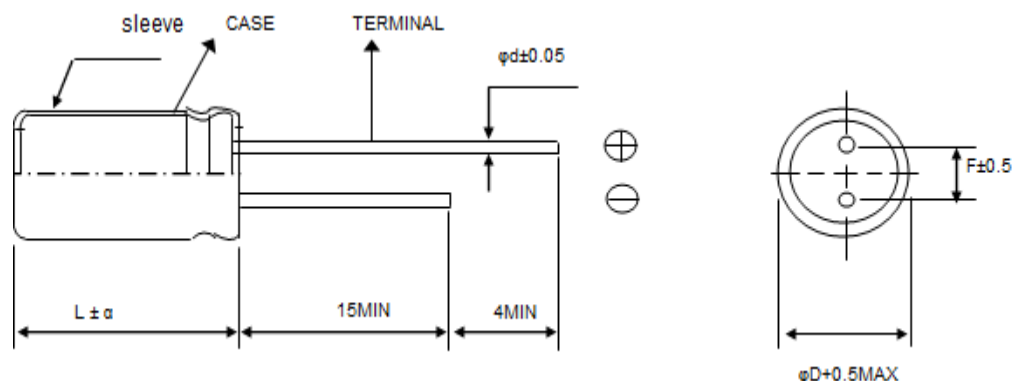
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Load Life 負荷壽命	After 3000 hours' application of rated voltage at 105°C, capacitors meet the characteristics requirement listed below: 在 105°C 下印加額定電壓 3000 小時後, 電容特性需滿足以下要求.	
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.
	Capacitance Change 容量變化率	within $\pm 20\%$ of the initial value 初始值 $\pm 20\%$ 以內
	Dissipation Factor 散逸因素	Not more than 200% of the specified value 不超出規格值的 2 倍
Shelf Life 放置壽命	After leaving capacitors under no load at 105°C for 1000 hours, the capacitors shall meet the following requirements. 電容放置在 105°C 無印加電壓的情況下儲存 1000 小時後, 電容需符合以下要求。	
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.
	Capacitance Change 容量變化率	within $\pm 20\%$ of the initial value 初始值 $\pm 20\%$ 以內
	Dissipation Factor 散逸因素	Not more than 200% of the specified value 不超出規格值的 2 倍
Standard 參照標準	According to JIS C-5101 依據 JIS C-5101	

Frequency coefficient

Frequency(Hz)	60(50)	120	500	1k	10k $\leq$
Cap(uF)					
0.47-82	0.80	1.00	1.25	1.30	1.50
100-470	0.80	1.00	1.10	1.15	1.20

DIMENSIONS 尺寸(mm)



φD	6.3	8	10	12/12.5/13	16	18
φd	0.5	0.6			0.8	
F	2.5	3.5	5.0		7.5	
α	L ≤ 19: α =1.5 , L ≥ 20: α =2.0					

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STANDARD SIZES AND RIPPLE CURRENT

尺寸及紋波標準

Size φ DxL(mm) Ripple Current(mA. 105°C,120HZ) r.m.s

W.V		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)		500(2Z)	
Cap(μ F)		Size	Ripple	Size	Ripple	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	6.3x11 8x11.5	29		
2.2	2R2					6.3x11	23	6.3x11 8x11.5	25 25	6.3x11 8x11.5	26 29 29	10x12.5	45	8x11.5 10x12.5	38 45		
3.3	3R3			6.3x11	26	6.3x11 8x11.5	35 35	8x11.5 10x12.5	40 40	6.3x11 10x12.5	35 45	10x12.5 10x16	65 65	10x12.5 10x16	65 65		
4.7	4R7	6.3x11	35	6.3x11 8x11.5	40 40	8x11.5	50	10x12.5	60	6.3x14 8x9 8x11.5 10x12.5 10x16	40 40 45 61 65	8x11.5 10x16 10x20	65 85 85	6.3x18 8x11.5 10x16	60 65 85		
6.8	6R8			8x11.5	50					8x11.5 10x12.5	60 82	10x12.5	110	10x12.5	110		
8.2	8R2									8x14 10x12.5	65 85	10x16	110	10x16	110		
10	100	8x11.5	60	8x11.5 10x12.5	60 70	10x12.5	75	10x20	80	8x11.5 10x12.5 12.5x20	65 70 85	10x20 12.5x20	130 140	10x12.5 12.5x20	100 140		
12	120									8x16 10x12.5	85 80	12.5x16	125	12.5x16	125		
15	150									8x16 10x12.5 12.5x16	90 85 170	12.5x16	130	12.5x16	130	12.5x16	160
22	220	10x16	110	10x16 12.5x16	115 125	10x16 12.5x20 16x16	130 130 140	12.5x20	135	8x18 10x16 12.5x16	90 100 120	12.5x20 12.5x25 16x25	145 160 200	12.5x20 16x25	145 200		
27	270					8x18	130			10x18 13x16	140 140			12.5x20	170		

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Size φ DxL(mm) Ripple Current(mA. 105°C,120HZ) r.m.s

W.V Cap(μ F)		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)		500(2Z)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
33	330	10x20	145	10x20 12.5x20	165 165	10x20 12.5x20	150 170	16x25	195	10x20 12.5x20 13x16 16x20	150 200 180 195	12.5x25 16x20 16x31.5	190 200 250	12.5x20 16x20 16x31.5	165 200 250		
39	390									12.5x18 13x20 16x16	165 150 190	12.5x30	250	10x30 12.5x30 16x18	200 250 215		
47	470	10x20 12.5x20	195 195	12.5x20	200	12.5x25	220	16x25	230	10x30 12.5x20 13x25 16x20 16x25	200 200 230 220 250	16x20 16x35.5 18x25	250 282 285	10x40 16x20 18x25	250 250 285		
56	560	12.5x20	211	10x18 12.5x20	200 233	12.5x25	244	16x31.5	255	10x35 12.5x20 16x18 18x20	230 200 230 250	16x35.5	325	10x40 12.5x28 16x23 18x25	285 225 260 340		
68	680	12.5x20	233	12.5x20	243	16x25	275	16x25 18x31.5	320 375	10x40 12.5x25 14.5x25 16x20 18x20	250 255 280 250 285	12.5x30 14.5x28 16x20 18x20	300 320 290 320	10x50 12x35 16x23 18x25 18x31.5	350 270 320 350 375	16x31.5 18x25	400 390
72	720									16x25	310						
82	820	12.5x25	258	16x25	290	16x25	312	18x31.5	325	12x40 12.5x35 16x20 18x20 18x31.5	320 320 320 335 375	12x40 12.5x35 16x25 18x20	350 360 340 380	12.5x40 16x25 16x30 18x20 18x35.5	300 350 370 370 440		
90	900									13x30	380						
100	101	12.5x20 12.5x25	280 290	16x25	335	16x31.5	360	18x31.5	375	12.5x35 14.5x30 16x25 18x20 18x35.5	350 350 350 375 440	12.5x40 14.5x33 16x25 18x25 18x31.5	350 400 400 430 460	12.5x40 13x50 16x31.5 16.5x30 18x25 18x35.5	385 450 410 410 450 510	16x45 18x35.5 18x45	510 530 580
110	111									12.5x40 13x55 16x30	375 460 400	12.5x45 13x40	410 400				

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Size φ DxL(mm) Ripple Current(mA. 105°C, 120HZ) r.m.s

W.V Cap(μ F)		160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		420(2H)		450(2W)		500(2Z)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
120	121	16x25	330	16x31.5	385	16x25 18x31.5	350 415	18x35.5	430	12.5x45 16x31.5 18x25 18x35.5	450 430 460 510	12.5x45 14.5x35 16x30 18x25 18x35.5	475 440 470 480 560	12.5x50 16x30 18x25 18x35.5	550 500 500 560	18x40	600
130	131													13x60	550		
150	151									16x35.5 18x31.5	500 520	14.5x40 16x35 18x31.5	470 500 580	13x60 16x40 18x31.5 18x35.5	600 580 550 580		
180	181			16x31.5	480					16x40 18x35	620 630	18x40	650	16x45 18x40	600 630		
200	201					16x30	600							16x50	650		
220	221	16x31.5	540	16x35.5 18x30	580 530	18x31.5	650			18x45	800	18x45	780	18x45	800		
240	241													20x50	1000		
270	271			18x35.5	680	18x30	750										
330	331	18x35.5	700	18x30	700	18x40	885										
470	471			18x40	1050												