

ALUMINUM ELECTROLYTIC CAPACITORS

LXU series Super ULTRA .Low impedance, High Ripple Current
超低阻抗, 高紋波

FEATURES

- Enabled high ripple current by a reduction of impedance at high frequency range
 高頻低阻, 高紋波
- Load life:105°C 5000~6000 hours
 壽命: 105°C 5000~6000 小時

SPECIFICATIONS

Item 項目	Performance Characteristics 特性							
Operating Temperature Range 工作溫度範圍	-55°C~105°C							
Rated Voltage Range 額定電壓範圍	6.3~50W.V.							
Capacitance Range 靜電容量範圍	10~5600 μ F							
Capacitance Tolerance 靜電容量誤差	$\pm 20\%$ (20°C, 120Hz)							
Leakage Current 洩漏電流	$I=0.01CV$ or $3\mu A$ whichever is greater.(After 2 minutes) $I=0.01CV$ or $3\mu A$ 取較大值.(2 分鐘後) $I=$ Leakage Current(μA), $C=$ Nominal Capacitance(μF), $V=$ Rated Voltage(V) $I=$ 洩漏電流 (μA), $C=$ 額定容量(μF), $V=$ 額定電壓(V)							
Dissipation Factor ($\tan \delta$) 散逸因素 (損失角正切值)	When nominal capacitance is over 1000 μ F, $\tan \delta$ shall be added 0.02 to the listed value with increase of every 1000 μ F. 額定容量超過 1000 μ F 時, 額定容量每增加 1000 μ F, 以下損失角增加 0.02.							
	Rated voltage 額定電壓 (V)	6.3	10	16	25	35	50	MAX
	Tan δ 損失角正切值	0.22	0.19	0.16	0.14	0.12	0.10	(20°C 120Hz)
Low Temperature Stability Impedance Ratio(MAX) 低溫特性阻抗比率	Rated Voltage 額定電壓(V)	6.3	10	16	25	35	50	MAX (120Hz)
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	
	Z(-55°C)/Z(+20°C)	3	3	3	3	3	3	

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Load Life 負荷壽命	After life test at conditions stated in the table below, the capacitors shall meet the following requirement. 依據以下壽命要求印加額定紋波電流後，電容需符合以下要求。			
	Capacitance Change 容量變化率	within $\pm 25\%$ of the initial value 初始值 $\pm 25\%$ 以內	Case Dia	Life Time(hrs)
	Dissipation Factor 散逸因素	Not more than 200% of the specified value. 不超出規格值的 2 倍	$\varphi D \leq 6.3$	5000
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值。	$\varphi D \geq 8$	6000
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。			
	Capacitance Change 容量變化率	within $\pm 25\%$ of the initial value 初始值 $\pm 25\%$ 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		
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值。		
Standard 參照標準	According to JIS C 5101 依據 JIS C 5101 標準			

Frequency coefficient

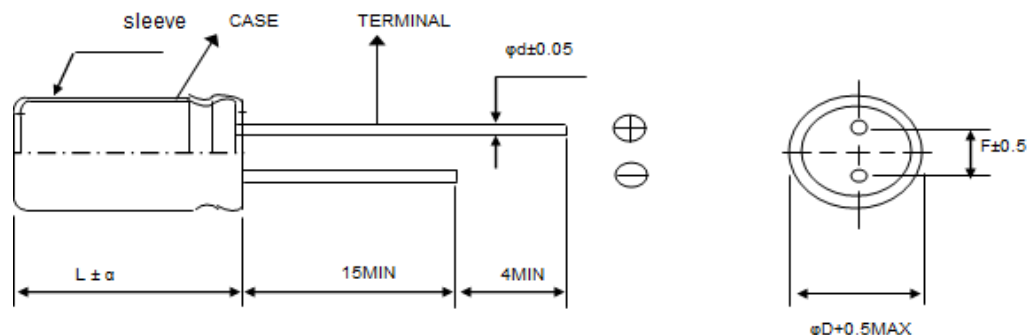
頻率系數

Frequency(Hz) Cap(uF)	60(50)	120	1K	10K	100K \leq
1-33	0.45	0.55	0.75	0.90	1.00
47-330	0.60	0.70	0.85	0.95	1.00
470-1000	0.65	0.75	0.90	0.98	1.00
1200-6800	0.75	0.80	0.95	1.00	1.00

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DIMENSIONS 尺寸(mm)



ϕD	5	6.3	8	10	12/12.5/13	16	18
ϕd	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0		7.5	
α	$L \leq 19: \alpha = 1.5, L \geq 20: \alpha = 2.0$						

STANDARD SIZE , RIPPLE CURRENT, IMPEDANCE

尺寸, 紋波電流及阻抗標準

Ripple Current (mA 105°C, 100KHz) r.m.s

Rated voltage 6.3V(OJ)				
Nominal capacitance (μF)	Size $\phi D \times L$ (mm)	Ripple Current (mA)	Impedance Ω (MAX)	
			25°C, 100KHz	-10°C, 100KHz
220	5x11	345	0.240	0.480
330	6.3x11	450	0.175	0.350
470	6.3x11	540	0.110	0.220
680	8x11.5	750	0.085	0.170
820	8x11.5	945	0.062	0.124
1000	8x15	1050	0.058	0.115
	10x12.5	1130	0.053	0.106
1200	8x15	1150	0.052	0.103
	10x12.5	1330	0.045	0.090
1500	8x20	1500	0.033	0.066
1800	10x16	1760	0.032	0.064
2200	10x20	1960	0.023	0.040
	10x23	2070	0.023	0.040
2700	10x23	2250	0.023	0.040

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Rated voltage 10V(1A)				
Nominal capacitance (μF)	Size φDxL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C,100KHz	-10°C,100KHz
82	5x11	385	0.430	0.680
100	5x11	420	0.300	0.550
150	5x11	345	0.240	0.480
220	6.3x11	450	0.175	0.350
330	6.3x11	540	0.110	0.220
470	6.3x11	650	0.085	0.425
	8x11.5	740	0.086	0.430
680	8x11.5	945	0.062	0.124
	8x16	1030	0.055	0.110
820	8x11.5	1130	0.053	0.106
1000	8x15	1200	0.053	0.106
	8x20	1250	0.052	0.100
	10x12.5	1330	0.045	0.090
1200	10x12.5	1540	0.038	0.076
1500	8x20	1300	0.045	0.090
	10x16	1760	0.032	0.064
1800	10x20	1960	0.025	0.050
2200	10x23	2250	0.023	0.043
3300	10x20	2250	0.035	0.072
	12.5x20	2480	0.030	0.060
	12.5x25	2530	0.026	0.055
3900	12.5x25	2780	0.024	0.045
4700	12.5x30	2850	0.018	0.035

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Rated voltage 16V(1C)				
Nominal capacitance (μF)	Size φDXL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C,100KHz	-10°C,100KHz
100	5x11	345	0.240	0.480
	6.3x7	400	0.200	0.400
120	6.3x11	415	0.200	0.400
150	6.3x11	440	0.175	0.350

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220	6.3x11	540	0.110	0.220
330	6.3x11	580	0.110	0.220
	8x11.5	740	0.086	0.172
470	6.3x16	950	0.080	0.156
	8x11.5	945	0.062	0.124
	8x16	1000	0.058	0.115
560	8x11.5	1050	0.055	0.100
680	8x15	1137	0.045	0.090
	8x20	1180	0.045	0.090
	10x12.5	1330	0.045	0.090
820	8x16	1390	0.038	0.076
	10x12.5	1540	0.038	0.076
1000	8x16	1600	0.045	0.090
	8x20	1650	0.040	0.078
	10x12.5	1650	0.039	0.072
	10x16	1760	0.032	0.064
	10x20	1800	0.030	0.060
1200	8x20	1760	0.043	0.086
	10x16	1860	0.026	0.052
1500	8x25	1850	0.040	0.078
	10x16	1930	0.026	0.050
	10x20	1960	0.028	0.055
	12.5x20	2090	0.024	0.045
1800	10x23	2220	0.018	0.090
2200	10x20	2200	0.030	0.060
	10x30	2350	0.026	0.052
	12.5x16	2250	0.030	0.060
	12.5x20	2250	0.028	0.055
3300	12.5x30	2760	0.022	0.040
	12.5x35	2800	0.022	0.040
3900	12.5x25	3100	0.025	0.048
5600	10x50	3350	0.030	0.060
	12.5x35	3500	0.025	0.050

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Rated voltage 25V(1E)				
Nominal Capacitance (μF)	Size φDxL(mm)	Ripple Current (mA)	Impedance(MAX)	
			25°C,100KHz	-10°C,100KHz
22	6.3x7	250	0.500	1.100
33	5x11	250	0.400	0.830
39	5x11	250	0.370	0.750
	6.3x7	280	0.420	0.860
47	5x11	280	0.300	0.600
	6.3x11	300	0.260	0.550
68	5x11	345	0.240	0.480
	6.3x11	380	0.200	0.395
100	5x11	400	0.200	0.395
	6.3x11	440	0.175	0.350
150	6.3x11	540	0.110	0.220
220	6.3x11	600	0.105	0.200
	8x11.5	740	0.086	0.172
	10x12.5	800	0.082	0.158
330	8x11.5	945	0.062	0.124
	10x12.5	1100	0.058	0.120
390	8x16	1250	0.053	0.106
470	8x15	1300	0.045	0.090
	8x20	1300	0.045	0.090
	10x12.5	1330	0.045	0.090
	10x16	1330	0.045	0.090
560	8x20	1500	0.033	0.066
	10x12.5	1430	0.042	0.086
680	8x16	1580	0.040	0.082
	10x12.5	1650	0.033	0.066
	10x16	1760	0.034	0.068
	10x20	1900	0.032	0.063
	12.5x16	1860	0.029	0.055
820	8x20	1800	0.032	0.063
	10x16	1890	0.030	0.056
	10x20	1960	0.023	0.046

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1000	8x23	1950	0.050	0.100
	10x16	2050	0.030	0.066
	10x20	2105	0.022	0.044
	12.5x16	2290	0.029	0.055
1200	10x16	2230	0.027	0.052
	10x23	2300	0.019	0.038
1500	10x20	2200	0.030	0.066
	12.5x20	2470	0.025	0.056
	13x16	2350	0.026	0.058
1800	12.5x20	2500	0.028	0.054
	12.5x25	2500	0.022	0.045
2200	10x30	2500	0.024	0.053
	12.5x25	2600	0.024	0.053
	12.5x30	2684	0.018	0.040
4700	18x25	3100	0.013	0.028

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Rated voltage 35V(1V)				
Nominal capacitance (μF)	Size φDxL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C,100KHz	-10°C,100KHz
22	5x7	190	0.480	0.920
33	5x11	245	0.300	0.680
47	5x11	345	0.240	0.480
	6.3x11	345	0.200	0.400
68	6.3x11	440	0.175	0.350
100	6.3x11	540	0.110	0.220
150	8x11.5	740	0.086	0.172
220	8x11.5	945	0.062	0.124
	8x16	1150	0.053	0.100
	10x12.5	1200	0.052	0.100
270	8x15	1250	0.050	0.096
330	8x16	1300	0.065	0.132
	10x12.5	1330	0.045	0.090
	10x16	1370	0.042	0.086

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390	8x20	1500	0.033	0.066
	10x16	1700	0.032	0.062
	10x20	1960	0.032	0.062
470	8x20	1700	0.040	0.080
	10x16	1800	0.037	0.064
560	8x20	1750	0.036	0.062
	10x16	1900	0.033	0.066
	10x20	1960	0.025	0.050
680	10x16	2000	0.030	0.060
	10x23	2250	0.025	0.050
	12.5x16	1960	0.030	0.060
820	10x20	2300	0.024	0.120
	10x23	2360	0.024	0.120
1000	10x20	2375	0.032	0.064
	12.5x16	2400	0.028	0.055
	12.5x25	2500	0.025	0.050
1200	12.5x25	2650	0.030	0.060
	12.5x30	2700	0.027	0.054
1500	12.5x30	3000	0.018	0.037
	16x20	3200	0.018	0.037
1800	12.5x35	3250	0.020	0.040

LXU series

Rated voltage 50V(1H)				
Nominal capacitance (μF)	Size φDxL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C,100KHz	-10°C,100KHz
10	5x11	250	0.400	0.900
	6.3x11	260	0.370	0.760
22	5x11	310	0.330	0.700
25	5x11	330	0.240	0.520
47	6.3x11	550	0.250	0.550
	8x11.5	630	0.200	0.430
56	6.3x11	560	0.180	0.380
68	8x11.5	680	0.160	0.330
100	8x11.5	720	0.130	0.280
	8x16	750	0.110	0.250



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390	10x20	2000	0.035	0.070
470	10x20	2100	0.033	0.068
560	10x23	2200	0.030	0.062
	10x28	2350	0.028	0.055