

ALUMINUM ELECTROLYTIC CAPACITORS

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

■ **FEATURES**

■ **特性**

- Enabled high ripple current by a reduction of impedance at high frequency range
 高頻低阻, 高紋波
- Load life:105°C 2000~5000 hours
 壽命: 105°C 2000~5000 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	6.3~63W.V.								
Capacitance Range 靜電容量範圍	1~6800 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 1000uF, $\tan \delta$ shall be added 0.02 to the listed value with increase of every 1000uF 額定容量超過 1000 μF 時, 額定容量每增加 1000 μF , 以下損失角增加 0.02.								
	Rated voltage 額定電壓 (V)	6.3	10	16	25	35	50	63	MAX
	Tan δ 損失角正切值	0.22	0.19	0.16	0.14	0.12	0.10	0.09	(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	63	MAX (120Hz)
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	2	
	Z(-55°C)/Z(+20°C)	3	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	$\varphi D \leq 6.3$	2000
	Leakage Current 洩漏電流	Not more than the specified value. 不超出規格值.	$\varphi D = 8$ $\varphi D = 10$ $\varphi D \geq 12$	3000 4000 5000
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

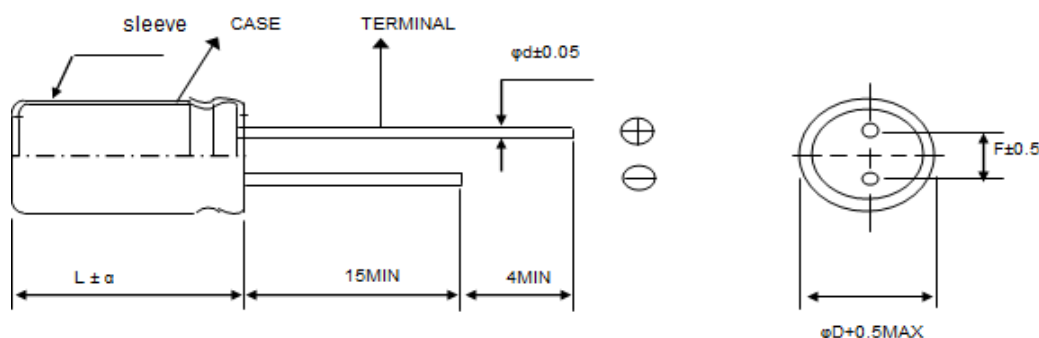
頻率系數

Frequency(Hz) Cap(μF)	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
22	4x5	18	4.800	24.00
33	4x7	46	3.300	16.50
	5x5	40	3.360	16.80
47	4x7	72	3.300	16.50
	5x5	76	3.360	16.80
100	5x11	240	0.350	0.950
	6.3x5	190	0.400	2.000
120	5x11	255	0.290	0.950
150	5x11	260	0.290	0.950
	6.3x7	230	0.350	1.180
220	5x11	318	0.235	0.769
	6.3x7	313	0.370	1.850
	6.3x11	327	0.215	0.705
	8x7	300	0.260	0.780
330	6.3x11	410	0.120	0.400
470	6.3x11	490	0.110	0.360
	8x7	466	0.260	0.510
560	8x11.5	760	0.072	0.220
820	8x11.5	890	0.063	0.210

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	8x16	995	0.056	0.170
	10x12.5	990	0.056	0.170
1000	8x11.5	990	0.061	0.190
	8x16	1222	0.049	0.150
	8x20	1235	0.045	0.140
	10x12.5	1200	0.050	0.160
1200	8x16	1240	0.049	0.120
	8x20	1250	0.041	0.110
	10x16	1260	0.041	0.110
1500	8x20	1300	0.040	0.106
	10x12.5	1500	0.050	0.160
	10x16	1443	0.038	0.095
	10x20	1820	0.023	0.068
	10x23	1985	0.022	0.068
	10x25	2000	0.021	0.062
1800	8x20	1300	0.040	0.120
	10x16	1625	0.030	0.095
2200	8x20	1300	0.040	0.106
	10x16	1897	0.037	0.092
	10x18	2000	0.033	0.400
	10x20	2050	0.024	0.073
	10x23	2150	0.022	0.068
2700	10x23	2255	0.022	0.068
3300	10x25	2600	0.025	0.068
	12.5x20	2360	0.030	0.076
	12.5x25	2600	0.025	0.060
3900	12.5x25	2780	0.020	0.044
4700	12.5x20	1890	0.029	0.088
	16x20	3070	0.017	0.042
5600	12.5x35	3400	0.015	0.039
	16x20	3140	0.018	0.045
6800	16x25	3470	0.015	0.041

ALUMINUM ELECTROLYTIC CAPACITORS

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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
6.8	4x5	50	4.800	24.00
10	4x5	71	4.800	24.00
22	4x7	103	3.300	16.50
	5x5	117	3.360	16.80
33	5x5	130	3.360	16.80
47	5x5	220	3.360	16.80
	5x7	225	0.400	1.200
	5x11	230	0.350	1.180
100	5x7	255	0.600	3.000
	5x11	260	0.290	0.950
	6.3x5	270	0.400	2.000
120	6.3x5	269	0.279	0.926
	6.3x7	288	0.258	0.850
180	5x11	260	0.290	0.963
220	6.3x7	350	0.270	0.600
	6.3x11	410	0.120	0.400
	8x7	565	0.112	0.357
270	6.3x11	450	0.130	0.390
330	6.3x11	493	0.120	0.360
	8x11.5	671	0.086	0.267
	8x20	960	0.064	0.198
470	6.3x11	582	0.101	0.315
	8x7	765	0.082	0.243
	8x10	760	0.080	0.240
	8x11.5	760	0.072	0.186
	8x16	935	0.060	0.172
560	6.3x16	720	0.130	0.315
	8x11.5	877	0.064	0.195
	10x12.5	895	0.063	0.190
680	6.3x16	760	0.120	0.315
	8x9	850	0.130	0.330

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	8x11.5	935	0.060	0.183
	8x16	1000	0.055	0.160
	10x12.5	1030	0.052	0.150
820	8x11.5	942	0.059	0.180
	10x12.5	1050	0.050	0.165
1000	8x12	1050	0.060	0.150
	8x16	1122	0.049	0.150
	8x20	1300	0.040	0.120
	10x12.5	1230	0.046	0.140
	10x16	1450	0.037	0.110
1200	10x20	1830	0.024	0.068
1500	8x20	1450	0.036	0.112
	10x16	1700	0.035	0.094
	10x20	1985	0.023	0.068
	12.5x16	2030	0.025	0.074
1800	10x20	2030	0.023	0.068
2200	10x20	2090	0.022	0.057
	10x23	2225	0.022	0.057
	10x28	2245	0.022	0.057
	12.5x20	2360	0.020	0.051
3300	10x23	2257	0.022	0.057
	10x28	2290	0.022	0.057
	12.5x20	2730	0.019	0.050
	12.5x25	2780	0.017	0.044
3900	12.5x30	3290	0.016	0.041
	16x20	3180	0.017	0.043
4700	12.5x20	3200	0.030	0.054
	12.5x35	3400	0.024	0.070
5600	16x25	3470	0.021	0.041

ALUMINUM ELECTROLYTIC CAPACITORS

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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
10	4x5	98	4.800	24.00
22	4x7	186	3.300	16.50
	5x5	200	3.360	16.80
33	5x5	230	3.360	16.80
	5x7	240	0.600	3.000
47	5x7	240	0.600	3.000
	5x11	245	0.310	1.045
	6.3x5	240	0.400	2.000
56	5x11	260	0.290	0.950
100	5x11	300	0.290	0.950
	6.3x5	220	0.400	2.000
	6.3x11	440	0.140	0.430
120	6.3x5	230	0.350	1.180
	6.3x7	288	0.255	0.850
	6.3x11	410	0.120	0.400
	8x7	327	0.220	0.710
150	6.3x11	550	0.110	0.360
220	6.3x11	582	0.100	0.320
	8x11.5	700	0.093	0.270
330	8x8	720	0.100	0.320
	8x11.5	770	0.072	0.220
470	8x11.5	877	0.064	0.200
	8x15	936	0.061	0.180
	10x12.5	1030	0.052	0.150
560	8x11.5	900	0.070	0.350
680	8x11.5	950	0.070	0.350
	8x16	1080	0.051	0.085
	8x20	1300	0.045	0.072
	10x12.5	1230	0.046	0.075
	10x16	1450	0.037	0.066
	10x20	1609	0.025	0.051
820	8x16	1122	0.048	0.085
	8x20	1320	0.041	0.080



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	10x16	1525	0.035	0.062
1000	8x16	1130	0.048	0.078
	10x12.5	1700	0.040	0.070
	10x16	1820	0.034	0.060
	10x20	1820	0.024	0.050
1200	10x16	2000	0.028	0.057
	10x20	1958	0.024	0.050
	10x23	2170	0.022	0.052
	10x25	2200	0.021	0.050
1500	8x25	2150	0.041	0.080
	10x20	2150	0.022	0.052
	12.5x16	2300	0.021	0.051
	12.5x20	2360	0.020	0.048
1800	10x23	2255	0.022	0.052
	12.5x16	2300	0.021	0.050
2200	10x20	2300	0.030	0.060
	10x23	2375	0.022	0.052
	12.5x20	2630	0.0185	0.036
	12.5x25	2770	0.018	0.036
2700	12.5x20	2700	0.025	0.056
	12.5x30	3290	0.016	0.041
	16x20	3140	0.018	0.045
3300	10x25	2750	0.028	0.057
	10x30	2800	0.025	0.056
	12.5x30	3345	0.020	0.040
	12.5x35	3400	0.020	0.040
3900	10x40	3110	0.020	0.040
	12.5x30	3400	0.022	0.052
	16x25	3460	0.023	0.055
4700	10x40	3400	0.025	0.056
	16x31.5	3530	0.022	0.052
5600	12.5x30	3650	0.020	0.040

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Rated Voltage 25V(1E)				
Nominal Capacitance (μF)	Size φDXL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C ,100KHz	-10°C ,100KHz
4.7	4x7	103	3.300	16.50
10	4x5	166	4.800	24.00
	5x5	175	3.360	16.80
	5x11	185	0.450	1.490
22	5x5	195	3.360	16.80
	5x7	200	0.600	1.200
33	5x7	200	0.600	3.000
	6.3x5	140	0.400	2.000
47	5x11	250	0.300	1.000
	6.3x5	145	0.400	2.000
	8x7	690	0.260	1.300
56	6.3x7	200	0.330	1.400
68	5x11	275	0.250	0.498
100	6.3x11	405	0.130	0.410
	8x7	780	0.260	1.300
120	6.3x11	582	0.101	0.315
150	6.3x11	670	0.130	0.410
	8x11.5	671	0.087	0.268
180	8x9	700	0.083	0.447
	8x11.5	716	0.080	0.400
220	8x9	710	0.077	0.310
	8x11.5	760	0.072	0.220
	8x16	878	0.064	0.195
330	8x11.5	877	0.064	0.320
	8x16	995	0.056	0.170
	10x12.5	1030	0.053	0.160
390	8x16	1050	0.052	0.170
	8x20	1157	0.050	0.130
470	8x12	1100	0.055	0.200
	8x14	1100	0.052	0.170
	8x20	1250	0.041	0.130
	10x12.5	1230	0.046	0.140
	10x16	1430	0.038	0.120



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560	8x20	1342	0.036	0.100
680	8x16	1400	0.040	0.116
	8x20	1435	0.035	0.110
	10x15	1625	0.031	0.095
	10x20	1820	0.026	0.069
	12.5x16	2037	0.022	0.065
820	10x16	1900	0.035	0.077
	10x20	1985	0.023	0.068
	12.5x16	2255	0.022	0.060
1000	10x20	2065	0.026	0.069
	10x23	2180	0.022	0.067
	12.5x15	2300	0.030	0.078
	12.5x20	2360	0.021	0.053
1200	12.5x25	2524	0.020	0.048
1500	10x28	2400	0.021	0.055
	12.5x20	2630	0.0185	0.050
	12.5x25	2770	0.018	0.045
1800	16x20	3140	0.018	0.045
	12.5x30	3290	0.016	0.041
2200	12.5x25	3085	0.020	0.048
	12.5x35	3400	0.015	0.039
	12.5x40	3535	0.013	0.034
2700	16x25	3460	0.016	0.043
3300	12.5x30	3540	0.013	0.034
3900	16x25	3640	0.014	0.036

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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
2.2	4x5	46	4.800	24.00
4.7	4x5	67	4.800	24.00
6.8	4x7	100	3.300	16.50
10	4x7	124	3.300	16.50
	5x5	135	3.360	16.80
	5x11	145	0.400	1.400
22	5x5	235	3.360	16.80
	6.3x5	257	0.400	2.000
33	5x11	260	0.290	0.950
	6.3x5	280	0.400	2.000
39	5x11	310	0.250	0.498
47	5x11	274	0.280	1.045
	6.3x11	350	0.190	0.570
56	6.3x11	405	0.130	0.410
68	6.3x11	450	0.130	0.400
82	6.3x11	510	0.101	0.315
100	6.3x11	582	0.101	0.315
120	6.3x11	665	0.095	0.310
150	8x11.5	760	0.072	0.220
220	6.3x16	850	0.078	0.280
	8x11.5	885	0.071	0.210
	8x16	1000	0.055	0.160
	8x20	1212	0.047	0.145
	10x12.5	1030	0.052	0.150
	10x20	1450	0.040	0.136
270	8x14	1200	0.065	0.180
	8x20	1300	0.040	0.136
330	8x14	1190	0.055	0.165
	8x20	1340	0.040	0.130
	10x12.5	1350	0.052	0.172
	10x16	1450	0.037	0.110
	10x20	1620	0.035	0.100
390	8x20	1380	0.040	0.136
	10x12.5	1350	0.052	0.160

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470	8x20	1650	0.040	0.130
	8x25	1650	0.036	0.120
	10x15	1640	0.037	0.122
	10x20	1820	0.024	0.096
560	10x20	2000	0.024	0.072
	10x23	2150	0.022	0.066
680	10x20	2200	0.025	0.081
	10x28	2400	0.019	0.036
	12.5x16	2255	0.022	0.046
	12.5x20	2360	0.021	0.043
820	12.5x16	2450	0.026	0.065
1000	10x23	2500	0.025	0.072
	12.5x20	2570	0.026	0.075
	12.5x25	2770	0.025	0.072
1200	12.5x30	3290	0.016	0.041
1500	12.5x25	2800	0.025	0.072
	12.5x35	3400	0.015	0.039
	16x20	3350	0.020	0.100
1800	16x25	3460	0.016	0.043
2200	16x25	3550	0.017	0.045
2700	16x25	3640	0.015	0.040
3300	13x35	3550	0.022	0.046

LXY series

Rated Voltage 50V(1H)				
Nominal capacitance (μF)	Size φDXL(mm)	Ripple Current (mA)	ImpedanceΩ(MAX)	
			25°C,100KHz	-10°C,100KHz
2.2	4x5	20	4.800	24.00
	5x5	42	3.360	16.80
3.3	4x5	46	4.800	24.00
4.7	4x7	94	3.300	16.50
	5x5	72	3.360	16.80
	5x11	125	2.500	10.50
5.6	4x7	130	1.700	8.60
6.8	4x7	120	3.300	16.50
	5x11	135	1.200	10.50
	6.3x7	140	0.370	1.850



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10	5x7	156	0.600	3.000
	6.3x5	140	0.400	2.000
	6.3x7	145	0.400	2.000
22	5x11	240	0.330	1.100
	6.3x7	191	1.000	6.850
	8x7	200	0.260	1.300
47	5x11	311	0.240	1.150
	6.3x11	311	0.240	1.150
56	6.3x11	385	0.140	0.500
68	6.3x11	400	0.130	0.480
100	6.3x16	680	0.085	0.350
	8x11.5	724	0.074	0.220
120	8x16	950	0.061	0.180
150	10x12.5	980	0.061	0.180
180	8x20	1200	0.045	0.130
220	8x16	1230	0.050	0.150
	10x16	1370	0.042	0.120
270	10x20	1580	0.030	0.090
330	10x20	1800	0.029	0.087
	10x23	1870	0.028	0.084
470	10x23	2010	0.028	0.084
	12.5x20	2050	0.027	0.068
560	12.5x25	2430	0.023	0.058
	12.5x30	2635	0.022	0.056
680	12.5x20	2750	0.038	0.096
	12.5x30	2860	0.021	0.052
820	12.5x35	2960	0.019	0.050
	16x20	2730	0.023	0.058
1000	12.5x30	3000	0.022	0.058
	16x25	3010	0.021	0.056

ALUMINUM ELECTROLYTIC CAPACITORS

LXY series

Rated Voltage 63V(1J)				
Nominal capacitance (μF)	Size $\phi\text{D}\times\text{L}(\text{mm})$	Ripple Current (mA)	Impedance Ω (MAX)	
			25°C,100KHz	-10°C,100KHz
100	8x16	250	0.420	1.260
120	10x16	327	0.200	0.700
330	10x16	505	0.130	0.526
560	16x25	2750	0.070	0.200
680	12.5x40	2900	0.068	0.192
	16x25	2900	0.056	0.180