

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series** Super ULTRA .Low impedance, High Ripple Current

## FEATURES

- Enabled high ripple current by a reduction of impedance at high frequency range
- Load life:105°C 2000~5000 hours

## SPECIFICATIONS

Item	Characteristics							
Operating Temperature Range	-55°C~105°C							
Rated Voltage Range	6.3~50W.V.							
Capacitance Range	1.0~6800 μF							
Capacitance Tolerance	±20%(20°C,120Hz)							
Leakage Current (MAX)	I=0.01CV or 3uA whichever is greater.(After 2 minutes) I=Leakage Current(uA) , C=Nominal Capacitance(uF) , V=Rated Voltage(V)							
Dissipation Factor (tan δ)	When nominal capacitance is over 1000uF, tan δ shall be added 0.02 to the listed value with increase of every 1000uF							
	Rated voltage (V)	6.3	10	16	25	35	50	MAX
	Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	(20°C 120Hz)
Low Temperature Stability Impedance Ratio	Rated Voltage(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	
Load Life	After life test at conditions stated in the table below, the capacitors shall meet the following requirement							
	Capacitance Change	within ±25% of the initial value					Case Dia	Life Time(hrs)
	Dissipation Factor	Not more than 200% of the specified value.					Φ D ≤ 6.3	2000
	Leakage Current	Not more than the specified value.					Φ D = 8	3000
Φ D = 10							4000	
						Φ D ≥ 12.5	5000	
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

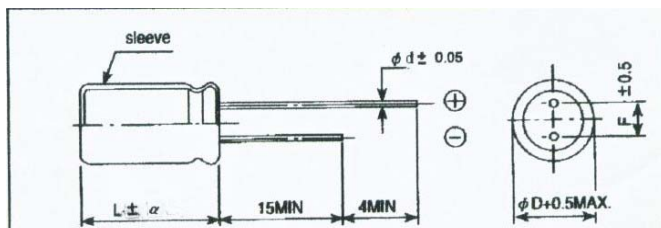
### Frequency coefficient

Frequency(Hz) Cap(uF)	60(50)	120	1K	10K	100K ≤
1.0-33	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

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series** Super ULTRA .Low impedance, High Ripple Current

## DIMENSIONS (mm)



$\phi D$	5	6.3	8	10	12.5	16	18
$\phi d$	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0		7.5	
$\alpha$	L ≤ 16: $\alpha = 1.5$ , L ≥ 20: $\alpha = 2.0$						

## STANDARD SIZE ,MAXIUM PERMISSIBLE RIPPLE CURRENT,IMPEDANCE

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

Rated voltage 6.3V(OJ)				
Nominal capacitance ( $\mu F$ )	Size $\phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
150	5X11	260	0.29	0.95
220	6.3x11	327	0.215	0.705
330	6.3X11	410	0.12	0.40
560	8X11.5	760	0.072	0.22
820	8X16	995	0.056	0.17
	10x12.5	990	0.056	0.17
1000	8X16	1222	0.049	0.15
	10x12.5	1200	0.050	0.16
1200	8X20	1250	0.041	0.13
	10x16	1260	0.041	0.13
1500	10X20	1820	0.023	0.069
2200	10X23	2150	0.022	0.066
2700	10X23	2255	0.022	0.060
3300	12.5X20	2360	0.021	0.053
3900	12.5X25	2780	0.020	0.044
4700	12.5X30	3290	0.016	0.041
	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

**LXY series** Super ULTRA .Low impedance, High Ripple Current

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

Rated voltage 10V(1A)				
Nominal capacitance ( $\mu$ F)	Size $\Phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
47	5x11	230	0.35	1.18
100	5X11	260	0.29	0.95
220	6.3X11	405	0.13	0.41
270	6.3X11	450	0.13	0.39
330	8X11.5	671	0.086	0.267
470	8X11.5	760	0.072	0.22
560	8X11.5	877	0.064	0.195
680	8x11.5	935	0.060	0.183
1000	8X16	1122	0.049	0.15
1000	10X12.5	1230	0.046	0.14
1500	10X20	1985	0.023	0.068
2200	10X23	2225	0.022	0.057
3300	10x28	2290	0.022	0.055
3900	12.5X30	3290	0.016	0.041
4700	12.5X35	3400	0.015	0.039
5600	16X25	3470	0.015	0.041

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series Super ULTRA .Low impedance, High Ripple Current**

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

Rated voltage 16V(1C)				
Nominal capacitance (μF)	Size ΦDXL(mm)	Ripple Current	Impedance Ω (MAX)	
			20°C,100kHz	-10°C,100kHz
56	5X11	260	0.29	0.95
120	6.3X11	410	0.12	0.41
220	6.3X11	582	0.10	0.32
330	8X11.5	770	0.072	0.22
470	8X16	1000	0.056	0.17
680	8X20	1250	0.041	0.13
820	8X20	1320	0.041	0.13
820	10X16	1525	0.035	0.108
1000	10X20	1820	0.023	0.069
1500	10X20	2150	0.022	0.066
1800	10X23	2255	0.022	0.060
2200	10X28	2510	0.020	0.052
	12.5X25	2770	0.018	0.045
2700	12.5X30	3290	0.016	0.041
	16X20	3140	0.018	0.045
3300	12.5X35	3400	0.017	0.044
3900	16X25	3460	0.016	0.043

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series** Super ULTRA .Low impedance, High Ripple Current

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

Rated voltage 25V(1E)				
Nominal Capacitance (μF)	Size ΦDXL(mm)	Ripple Current	Impedance Ω (MAX)	
			20°C,100kHz	-10°C,100kHz
10	5X11	185	0.45	1.49
47	5X11	250	0.30	1.0
100	6.3X11	405	0.13	0.41
120	6.3X11	582	0.101	0.315
220	8X11.5	760	0.072	0.22
330	8X16	995	0.056	0.17
330	10X12.5	1030	0.053	0.16
470	10X16	1430	0.038	0.12
680	10X20	1820	0.023	0.069
820	10X20	1985	0.023	0.068
1000	10X20	2065	0.022	0.067
	12.5X20	2360	0.021	0.053
1500	12.5X25	2770	0.018	0.045
1800	16X20	3140	0.018	0.045
2200	12.5X25	3085	0.018	0.042
2700	16X25	3460	0.016	0.043

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series** Super ULTRA .Low impedance, High Ripple Current

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

Rated voltage 35V(1V)				
Nominal capacitance ( $\mu$ F)	Size $\Phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
10	5x11	145	0.4	1.40
33	5X11	260	0.29	0.95
47	6.3x11	350	0.19	0.57
56	6.3X11	405	0.13	0.41
100	6.3X11	582	0.101	0.315
150	8X11.5	760	0.072	0.22
220	8X16	995	0.056	0.17
330	8X16	1212	0.047	0.145
470	10X20	1820	0.023	0.069
560	10X23	2150	0.022	0.066
680	12.5X20	2360	0.021	0.053
1000	12.5X25	2770	0.018	0.045
1200	12.5X30	3290	0.016	0.041
1500	12.5X35	3400	0.015	0.039
1800	16X25	3460	0.016	0.043
2200	16X25	3550	0.015	0.040

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXY series** Super ULTRA .Low impedance, High Ripple Current

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

Rated voltage 50V(1H)				
Nominal capacitance (μF)	Size ΦDXL(mm)	Ripple Current	ImpedanceΩ (MAX)	
			20°C,100kHz	-10°C,100kHz
1	5X11	25	3.0	10.5
10	5X11	145	0.4	1.40
22	5X11	240	0.33	1.10
47	5X11	311	0.24	1.15
56	6.3X11	385	0.14	0.50
100	8X11.5	724	0.074	0.22
120	8X16	950	0.061	0.18
150	10X12.5	979	0.061	0.18
220	10X16	1370	0.042	0.12
270	10X20	1580	0.030	0.090
330	10X23	1870	0.028	0.085
470	12.5X20	2050	0.027	0.068
560	12.5X25	2410	0.023	0.059
680	12.5X30	2860	0.021	0.052
820	12.5X35	2960	0.019	0.051
820	16X20	2730	0.023	0.059
1000	16X25	3010	0.021	0.056