

# ALUMINUM ELECTROLYTIC CAPACITORS

**LXU 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 5000~6000 hours



## SPECIFICATIONS

Item	Characteristics						
Operating Temperature Range	-55°C~105°C						
Rated Voltage Range	6.3~35W.V.						
Capacitance Range	47~2700 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	MAX
	Tan δ	0.22	0.19	0.16	0.14	0.12	(20°C 120Hz)
Low Temperature Stability Impedance Ratio	Rated Voltage(V)	6.3	10	16	25	35	MAX (120Hz)
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	
	Z(-55°C)/Z(+20°C)	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	5000
	Leakage Current	Not more than the specified value.				Φ D = 8 / 10	6000
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

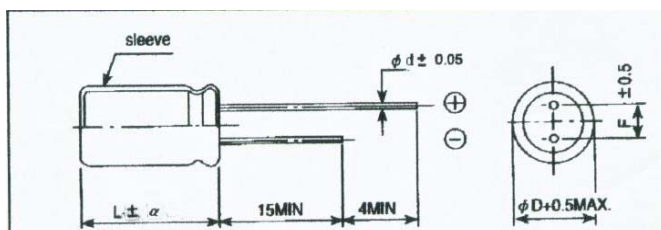
### Frequency coefficient

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

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## DIMENSIONS (mm)



$\phi D$	5	6.3	8	10
$\phi d$	0.5		0.6	
F	2.0	2.5	3.5	5.0
$\alpha$	$L \leq 16: \alpha = 1.5, L \geq 20: \alpha = 2.0$			

## 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
220	5x11	345	0.240	0.48
330	6.3x11	450	0.175	0.35
470	6.3x11	540	0.110	0.22
680	8x11.5	750	0.085	0.17
820	8x11.5	945	0.062	0.124
1000	10x12.5	1130	0.053	0.106
1200	10x12.5	1330	0.045	0.09
1500	8x20	1500	0.033	0.066
1800	10x16	1760	0.032	0.064
2200	10x20	1960	0.020	0.04
2700	10x23	2250	0.019	0.038

Rated voltage 10V(1A)				
Nominal capacitance ( $\mu F$ )	Size $\Phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
150	5x11	345	0.240	0.48
220	6.3x11	450	0.175	0.35
330	6.3x11	540	0.110	0.220
470	8x11.5	740	0.086	0.172
680	8x11.5	945	0.062	0.124
820	8x11.5	1130	0.053	0.106
1000	10x12.5	1330	0.045	0.09
1200	10x12.5	1540	0.038	0.076
1500	10x16	1760	0.032	0.064
1800	10x20	1960	0.020	0.04
2200	10x23	2250	0.019	0.038

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

Rated voltage 16V(1C)				
Nominal capacitance ( $\mu$ F)	Size $\Phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
100	5x11	345	0.240	0.48
150	6.3x11	440	0.175	0.35
220	6.3x11	540	0.11	0.22
330	8x11.5	740	0.086	0.172
470	8x11.5	945	0.062	0.124
680	10x12.5	1330	0.045	0.09
820	10x12.5	1540	0.038	0.076
1000	10x16	1760	0.032	0.064
1200	10x16	1860	0.026	0.052
1500	10x20	1960	0.020	0.040
1800	10x25	2220	0.018	0.038

Rated voltage 25V(1E)				
Nominal Capacitance ( $\mu$ F)	Size $\Phi$ DXL(mm)	Ripple Current	Impedance $\Omega$ (MAX)	
			20°C,100kHz	-10°C,100kHz
47	5x11	250	0.300	0.600
68	5x11	345	0.240	0.48
100	6.3x11	440	0.175	0.35
150	6.3x11	540	0.110	0.220
220	8x11.5	740	0.086	0.172
330	8x11.5	945	0.062	0.124
390	8x16	1250	0.053	0.106
470	10x12.5	1330	0.045	0.090
560	8x20	1500	0.033	0.066
680	10x16	1760	0.032	0.064
820	10x20	1960	0.020	0.040
1000	10x23	2250	0.019	0.038
1200	10x23	2360	0.018	0.036



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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
47	5x11	345	0.240	0.480
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
330	10x12.5	1330	0.045	0.090
390	8x20	1500	0.033	0.066
470	10x16	1760	0.032	0.064
560	10x20	1960	0.020	0.040
680	10x23	2250	0.019	0.038
820	10x23	2360	0.018	0.036