Aluminum Electrolytic Capacitors **XL** Series

Features

- Low Impedance, High Ripple Current
- Long Life of 2000 ~ 3000 Hours at 105℃.

Specification

Items	Performance
Capacitance Tolerance	±20% (at 120Hz, 25℃)
Rated Voltage Range	6.3 to 50 VDC
Capacitance Range	100 to 4700uF
Operating Temperature Range	-40 to + 105℃
Leakage Current (at 25℃)	I≦0.01 CV or 3 (uA), whichever is greater. After 3 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)
Dissipation Factor (Tan δ at 120Hz, 25℃)	For capacitance ＞1000uF, add 0.02 per 1000uF increase.
Low Temperature characteristics (at 120Hz)	Impedance ration max.
Load Life	Application of W.V. at +105℃, the capacitor shall meet the following limits. Capacitance change : ≦±25% of initial value Dissipation factor : ≦200% of initial specified value Leakage Current : ≦Initial specified value Life Time : 3000 hours for φD＞10 2000 hours for φD =10, 1500 hours for φD=8
Shelf Life	After storage for 500 hours at 105℃, with no voltage applied and being stabilixed at + 25℃, Capacitor shall meet the limit specifed in load life.
Ripple Current & Frequency Multipliers	
Ripple Current & Temperature Multipliers	
Standards	Satisfied Characteristic W of JIS C

Rate Voltage	6.3	10	16	25	35	50
Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.1

Rate Voltage	6.3	10	16	25	35	50
-25℃/25℃	3	3	2	2	2	2
-40℃/25℃	6	6	4	4	3	3

Freq.(Hz) / W.V.	120	1K	10K	100Kup
6.3 to 10	0.60	0.70	0.90	0.90
16 to 25	0.50	0.70	0.80	0.90
35 up	0.40	0.60	0.80	0.90

Temperature (℃)	85	105
Multiplier	1.10	0.90

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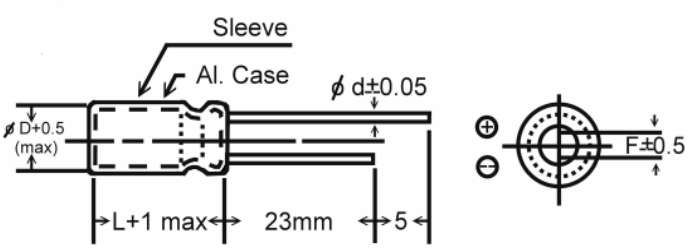

D	8	10	13
P	3.5	5.0	5.0
d	0.5	0.6	

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC / uF	6.3V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz	VDC / uF	10V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz
1000	8x12	610	0.085	470	8x11	610	0.085
	8x14	840	0.065	1000	8x20	1100	0.050
	8x20	1100	0.050		10x13	900	0.045
1200	10x16	1250	0.050		10x16	1200	0.045
1500	10x20	1700	0.030	1200	10x20	1650	0.030
2200	10x20	1700	0.030	1500	10x20	1650	0.030
	10x25	2000	0.030		10x25	2000	0.030
2700	10x25	2000	0.030	2200	10x25	2000	0.030
3300	13x21	2100	0.028		13x21	2100	0.030
3900	13x26	2500	0.028	3300	13x26	2500	0.030
4700	13x30	3000	0.028	3900	13x30	3000	0.030
				4700	13x36	3100	0.030

VDC / uF	16V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz	VDC / uF	25V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz
330	8x12	610	0.085	220	8x12	600	0.085
470	8x20	840	0.05	330	8x14	840	0.065
	10x13	900	0.06		10x13	900	0.060
1000	10x20	1650	0.03		10x16	1100	0.055
1200	10x25	2000	0.03	470	8x20	1100	0.050
1500	13x21	2100	0.03		10x16	1250	0.050
2200	10x25	2000	0.03	1000	10x25	2000	0.030
	13x26	2500	0.03		13x21	2100	0.030
2700	13x30	3000	0.03	1500	13x26	2500	0.030
3300	13x36	3100	0.025	2200	13x36	3100	0.030

VDC / uF	35V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz	VDC / uF	50V ψDxL (mm)	Ripple Current (mA/rms,105℃)	Impedance (Ωmax.) 25℃,100KHz
220	8x14	840	0.065	100	8x12	450	0.250
	10x13	900	0.065	220	10x16	850	0.050
330	10x16	1250	0.05		10x20	1100	0.050
470	10x20	1650	0.03	330	10x25	1650	0.035
1000	13x26	2500	0.03	470	10x30	1650	0.035
1200	13x30	3000	0.03		13x21	1900	0.035
1500	13x36	3100	0.025				