

Aluminum Electrolytic Capacitors **XL** Series

Features

- Low Impedance, High Ripple Current
- Load Life of 2000 ~ 3000 Hours at 105°C.

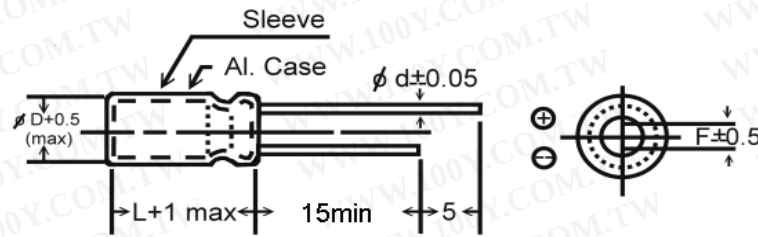
勝特力材料 886-3-5753170
勝特力電子(上海) 86-21-34970699
勝特力電子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Specification

Items	Performance																								
Capacitance Tolerance	±20% (at 120Hz, 25°C)																								
Rated Voltage Range	6.3 to 50 VDC																								
Capacitance Range	100 to 4700uF																								
Operating Temperature Range	-40 to + 105°C																								
Leakage Current (at 25°C)	$I \leq 0.01 CV$ or 3 (uA), whichever is greater.																								
	After 2 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)																								
Dissipation Factor (Tan δ at 120Hz, 25°C)	<table><tr><td>Rate Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tan δ (max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.1</td></tr></table>	Rate Voltage	6.3	10	16	25	35	50	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.1										
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Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.1																			
	For capacitance > 1000uF, add 0.02 per 1000uF increase.																								
Low Temperature characteristics (at 120Hz)	Impedance ration max.																								
	<table><tr><td>Rate Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>-25°C/25°C</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>-40°C/25°C</td><td>6</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table>	Rate Voltage	6.3	10	16	25	35	50	-25°C/25°C	3	3	2	2	2	2	-40°C/25°C	6	6	4	4	3	3			
	Rate Voltage	6.3	10	16	25	35	50																		
-25°C/25°C	3	3	2	2	2	2																			
-40°C/25°C	6	6	4	4	3	3																			
Load Life	Application of W.V. at +105°C, 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 ϕ D > 10 2000 hours for ϕ D =8,10																								
Shelf Life	After storage for 500 hours at 105°C, with no voltage applied and being stabilised at + 25°C, Capacitor shall meet the limit specified in load life.																								
Ripple Current & Frequency Multipliers	<table><tr><td>Freq.(Hz) CAP.(uf)</td><td>60(50)</td><td>120</td><td>1K</td><td>10K</td><td>100K</td></tr><tr><td>under 330</td><td>0.60</td><td>0.70</td><td>0.85</td><td>0.95</td><td>1.00</td></tr><tr><td>470 to 1000</td><td>0.65</td><td>0.75</td><td>0.90</td><td>0.98</td><td>1.00</td></tr><tr><td>1200 up above</td><td>0.75</td><td>0.80</td><td>0.95</td><td>1.00</td><td>1.00</td></tr></table>	Freq.(Hz) CAP.(uf)	60(50)	120	1K	10K	100K	under 330	0.60	0.70	0.85	0.95	1.00	470 to 1000	0.65	0.75	0.90	0.98	1.00	1200 up above	0.75	0.80	0.95	1.00	1.00
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1200 up above	0.75	0.80	0.95	1.00	1.00																				
Ripple Current & Temperature Multipliers	<table><tr><td>Temperature (°C)</td><td>85</td><td>105</td></tr><tr><td>Multiplier</td><td>1.70</td><td>1.00</td></tr></table>	Temperature (°C)	85	105	Multiplier	1.70	1.00																		
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Aluminum Electrolytic Capacitors

XL Series



D	8	10	13
P	3.5	5.0	5.0
d	0.5	0.6	

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC uF	6.3V			VDC uF	10V		
	ϕ DxL (mm)	Ripple Current (mA/rms, 105°C)	Impedance (Ω max.) 25°C, 100KHz		ϕ DxL (mm)	Ripple Current (mA/rms, 105°C)	Impedance (Ω max.) 25°C, 100KHz
1000	8x12	610	0.085	1000	10x13	900	0.045
	8x14	840	0.065		10x16	1200	0.045
1200	10x16	1250	0.050	1200	10x20	1650	0.030
1500	10x20	1700	0.030	1500	10x20	1650	0.030
2200	10x20	1700	0.030		10x25	2000	0.030
	10x25	2000	0.030	2200	10x25	2000	0.030
2700	10x25	2000	0.030		13x21	2100	0.030
3300	13x21	2100	0.028	3300	13x26	2500	0.030
4700	13x26	3000	0.028	4700	13x36	3100	0.030

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

VDC uF	35V			VDC uF	50V		
	ϕ DxL (mm)	Ripple Current (mA/rms, 105°C)	Impedance (Ω max.) 25°C, 100KHz		ϕ DxL (mm)	Ripple Current (mA/rms, 105°C)	Impedance (Ω max.) 25°C, 100KHz
220	10x13	900	0.065	100	8x12	450	0.250
330	10x16	1250	0.05	220	10x20	1100	0.050
470	10x20	1650	0.03	330	10x25	1250	0.045
1000	13x26	2150	0.03	470	13x21	1900	0.035

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