



Aluminum Electrolytic Capacitors

XE Series

Features

- 105°C, high reliability and long life.

Specification

Items	Performance															
Capacitance Tolerance	±20% (at 120Hz, 25°C)															
Rated Voltage Range	6.3 to 100 VDC	160 to 250 VDC	350 to 450 VDC													
Capacitance Range	1 to 15000 uF	1 to 220 uF	1 to 47 uF													
Operating Temperature Range	-40 to +105	-40 to 105	-25 to 105													
Leakage Current (at 25°C)	I ≤ 0.01 CV or 3 (uA), whichever is greater.		I = 0.01 CV + 10 (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°C)	Rate Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	Tan δ (max)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.15	0.15	0.20	0.20	0.20	
	For capacitance > 1000 uF, add 0.02 per 1000 uF increase.															
Low Temperature characteristics (at 120Hz)	Impedance ration max.															
	Rate Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	-25°C/25°C	4	3	3	2	2	2	2	2	4	4	4	8	8	15	
-40°C/25°C	8	6	6	4	4	4	4	4	6	6	6	-	-	-		
Load Life	1000 hours with application of W.V. at +105 .															
	Capacitance change	: ±25% of initial value														
Dissipation factor	: 200% of initial specified value															
Leakage Current	: Initial specified value															
Shelf Life	After storage for 500 hours at 105°C, with no voltage applied and being stabilixed at +25 , Capacitor shall meet the limit specified in load life.															
Ripple Current & Frequency Multipliers	Freq.(Hz)		60	120	1K	10K										
	Cap.(uF)		60	120	1K	10K										
	Under 100		0.60	0.90	1.00	1.10										
	100 to 4700		0.65	0.90	1.00	1.00										
	4700 up		0.70	0.90	1.00	1.00										
≥160V, 1-220		0.70	0.90	1.00	1.00											
Ripple Current & Temperature Multipliers	Temperature (°C)		65	85	105											
	Multiplier		1.3	1.1	0.9											
Standards	Satisfied Characteristic W of JIS C															

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Dimension : D x L (mm)

Ripple Current : mA/rms at 120Hz,105

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC uF	100V		160V		200V		250V		350V		400V		450V	
	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
1							8x12	20	10x13	13	10x13	13	10x16	15
2.2							8x12	25	10x16	20	10x13	25	13x21	25
3.3			8x12	28	8x12	28	10x13	40	10x20	38	13x21	40	13x26	38
4.7			8x12	33	10x13	40	10x13	45	13x21	45	13x21	50	16x26	50
10			10x13	65	10x16	70	10x20	85	13x26	80	13x26	85	16x32	87
22	8x12	100	10x20	110	10x20	120	13x21	130	16x32	140	16x32	140	16x36	105
33	10x13	130	13x21	150	13x26	170	13x26	185	18x36	180	18x36	185	18x40	165
47	10x16	170	13x26	200	13x26	210	16x26	230	18x40	240	18x40	250		
100	13x21	270	16x26	280	16x32	350	16x36	390						
220	16x26	480	18x36	540	18x40	600								
330	16x26	580												
470	16x32	760												