



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

KXL Series

• 105°C 1,000~2,000Hrs assured.

Solvent-proof

- Low impedance.
- General
- For SMPS, IP-Board, Adaptor
- RoHS compliant.

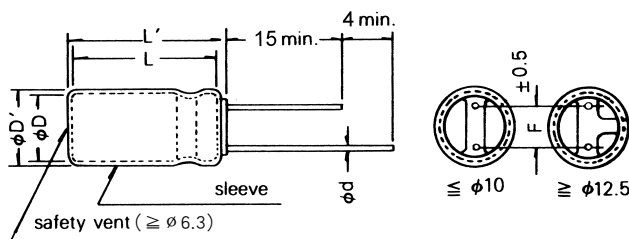


SPECIFICATIONS

Item	Characteristics																		
Rated Voltage Range	6.3 ~ 100 V _{DC}																		
Operating Temperature Range	-55 ~ +105°C																		
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)																		
Leakage Current	I = 0.03CV (μA) or 4μA, whichever is greater Where, I: Max. leakage current (μA) C: Nominal capacitance (μF) V: Rated voltage(V _{DC}) (at 20°C, 1 minute)																		
Dissipation Factor (Tan δ)	<table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.07</td> </tr> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)</p>	Rated voltage(V _{DC})	6.3	10	16	25	35	50	63	100	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07
Rated voltage(V _{DC})	6.3	10	16	25	35	50	63	100											
Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07											
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25~100</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table> <p>(at 120Hz)</p>	Rated Voltage(V _{DC})	6.3	10	16	25~100	Z(-25°C)/Z(20°C)	4	3	2	2	Z(-40°C)/Z(20°C)	8	6	4	3			
Rated Voltage(V _{DC})	6.3	10	16	25~100															
Z(-25°C)/Z(20°C)	4	3	2	2															
Z(-40°C)/Z(20°C)	8	6	4	3															
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for the specified period of time.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≦ ±20% of the initial value</td> </tr> <tr> <td>Tanδ</td> <td>≦ 200% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≦ The initial specified value</td> </tr> </table> <table border="1"> <tr> <td>∅ D</td> <td>Time</td> </tr> <tr> <td>~ ∅ 8</td> <td>1,000 hours</td> </tr> <tr> <td>∅ 10~</td> <td>2,000 hours</td> </tr> </table>	Capacitance change	≦ ±20% of the initial value	Tanδ	≦ 200% of the initial specified value	Leakage current	≦ The initial specified value	∅ D	Time	~ ∅ 8	1,000 hours	∅ 10~	2,000 hours						
Capacitance change	≦ ±20% of the initial value																		
Tanδ	≦ 200% of the initial specified value																		
Leakage current	≦ The initial specified value																		
∅ D	Time																		
~ ∅ 8	1,000 hours																		
∅ 10~	2,000 hours																		
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. (Where, 500 Hours ≦ 8 ∅)</p> <p>Capacitance change ≦ ±20% of the initial value Tanδ ≦ 200% of the initial specified value Leakage current ≦ The initial specified value</p>																		
Others	Satisfied characteristics W of KS C 6421																		

DIMENSIONS OF KXL Series

Unit (mm)



Marking : DARK BROWN SLEEVE, SILVER INK

∅ D	5	6.3	8	10	12.5	16	18
∅ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

∅ D ≤ 8, ∅ D' ≤ +0.5, L' ≤ L + 1.5
∅ D > 8, ∅ D' ≤ +0.5, L' ≤ L + 2.0

RATINGS OF KXL Series

μF \ Vdc	6.3 (0J)			10 (1A)			16 (1C)		
	∅ D×L	IMP	Ripple	∅ D×L	IMP	Ripple	∅ D×L	IMP	Ripple
10							5×11	2.2	71
22				5×11	1.6	97	5×11	1.6	107
33	5×11	1.6	107	5×11	1.6	119	5×11	1.6	127
47	5×11	1.6	129	5×11	1.6	139	5×11	1.6	168
68	5×11	1.6	148	5×11	1.6	161	5×11	1.6	189
100	5×11	1.6	172	5×11	1.6	188	6.3×11	0.78	238
220	6.3×11	0.78	290	6.3×11	0.78	322	8×11.5	0.38	414
330	6.3×11	0.78	356	8×11.5	0.38	465	8×11.5	0.38	508
470	8×11.5	0.38	503	8×11.5	0.38	556	10×12.5	0.30	703
680	10×12.5	0.30	703	10×16	0.22	751	10×16	0.22	751
1,000	10×12.5	0.30	703	10×16	0.22	751	10×20	0.16	1,031
2,200	12.5×20	0.12	1,139	12.5×20	0.12	1,139	12.5×25	0.080	1,331
3,300	12.5×25	0.080	1,331	12.5×25	0.080	1,331	16×25	0.070	1,839
4,700	16×25	0.070	1,839	16×25	0.070	1,839	16×31.5	0.055	2,371
6,800	16×25	0.070	1,839	16×31.5	0.055	2,371			
10,000	16×31.5	0.055	2,371						

μF \ Vdc	25 (1E)			35 (1V)			50 (1H)		
	∅ D×L	IMP	Ripple	∅ D×L	IMP	Ripple	∅ D×L	IMP	Ripple
2.2							5×11	5.0	63
3.3							5×11	4.3	77
4.7	5×11	4.0	62	5×11	3.8	87	5×11	3.8	92
6.8	5×11	3.2	70	5×11	3.2	106	5×11	3.2	111
10	5×11	2.2	81	5×11	2.2	124	5×11	2.2	134
22	5×11	1.6	113	5×11	1.6	159	5×11	1.6	172
33	5×11	1.6	156	5×11	1.6	178	6.3×11	0.78	220
47	5×11	1.6	188	6.3×11	0.78	230	6.3×11	0.78	263
68	6.3×11	0.78	216	6.3×11	0.78	273	8×11.5	0.38	374
100	6.3×11	0.78	262	8×11.5	0.38	327	8×11.5	0.38	378
220	8×11.5	0.38	457	10×12.5	0.30	703	10×16	0.22	714
330	10×12.5	0.30	703	10×16	0.22	751	10×20	0.16	1,031
470	10×16	0.22	751	10×20	0.16	1,031	12.5×20	0.12	1,335
680	12.5×16	0.18	950	12.5×20	0.12	1,139	12.5×25	0.080	1,571
1,000	12.5×20	0.12	1,139	12.5×25	0.080	1,331	16×25	0.070	1,696
2,200	16×25	0.070	1,839	16×31.5	0.055	2,371			
3,300	16×31.5	0.055	2,371	18×35.5	0.050	2,484			

μF \ Vdc	63(1J)			100(2A)		
	∅ D×L	IMP	Ripple	∅ D×L	IMP	Ripple
0.47	5×11	65.3	38	5×11	31.2	38
0.68	5×11	47.2	45	5×11	22.1	45
1	5×11	31.5	53	5×11	14.7	53
1.5	5×11	22.4	65	5×11	9.80	65
2.2	5×11	15.2	78	5×11	5.40	78
3.3	5×11	11.1	98	5×11	4.60	98
4.7	5×11	10.8	115	5×11	3.90	115
6.8	5×11	4.30	120	6.3×11	3.20	128
10	5×11	2.90	134	6.3×11	1.70	154
15	6.3×11	2.70	188	8×11.5	1.20	222
22	6.3×11	1.36	228	8×11.5	0.82	270
33	8×11.5	0.66	330	10×12.5	0.41	384
47	10×12.5	0.58	327	10×16	0.37	400
68	10×16	0.36	431	10×20	0.27	470
100	10×20	0.29	570	12.5×20	0.27	670
150	10×25	0.20	765	12.5×25	0.21	894
220	12.5×20	0.16	994	16×25	0.17	1,201
330	12.5×25	0.10	1,327	16×25	0.11	1,471
470	16×31.5	0.091	1,518	16×35.5	0.091	1,681
680	16×35	0.065	2,060	18×40	0.072	2,122
1,000	16×35.5	0.049	2,250	18×40	0.051	2,897

Rated Ripple Current (mArms/ 105°C, 100kHz)
 Impedance (Ω max./ 20°C, 100kHz)
 Case Size ∅ D×L(mm)

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap. (μF)	Freq. (Hz)					
	50	120	300	1k	10k	100k
~4.7	0.30	0.40	0.50	0.70	0.80	1.00
5.6~33	0.40	0.50	0.60	0.80	0.90	1.00
39~330	0.60	0.70	0.80	0.90	0.95	1.00
390~1,000	0.65	0.80	0.90	0.98	1.00	1.00
1,200~10,000	0.80	0.90	0.95	0.98	1.00	1.00

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