

ZL SERIES

105°C High Ripple Current, Low Impedance

• Load Life : 105°C 1000~5000 hours.

RoHS
compliance

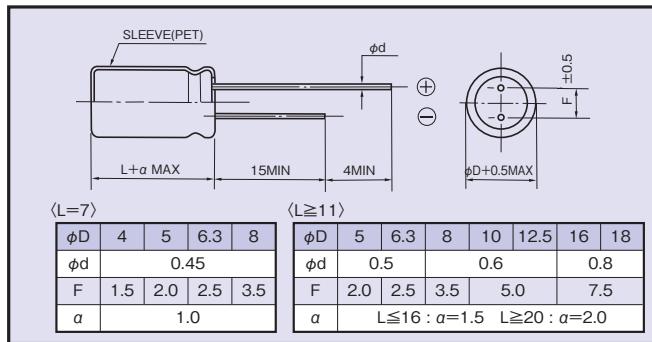
◆SPECIFICATIONS

Items	Characteristics																																																																																																		
Category Temperature Range	−40~+105°C																																																																																																		
Rated Voltage Range	6.3~100Vdc																																																																																																		
Capacitance Tolerance	±20%(20°C,120Hz)																																																																																																		
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																																																																																																		
Dissipation Factor(MAX) (tanδ)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</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</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>0.09</td> <td>0.08</td> </tr> </table> (20°C,120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.									Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																																																																								
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Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td colspan="8">Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td colspan="8">Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td colspan="8">Not more than the specified value.</td> </tr> </table> <table border="1"> <tr> <td>Case Size</td> <td colspan="8">Life Time (hrs)</td> </tr> <tr> <td>L=7</td> <td colspan="8">1000</td> </tr> <tr> <td>φD≤6.3</td> <td colspan="8">2000</td> </tr> <tr> <td>φD= 8</td> <td colspan="8">3000</td> </tr> <tr> <td>L≥11</td> <td colspan="8">4000</td> </tr> <tr> <td>φD= 10</td> <td colspan="8">5000</td> </tr> <tr> <td>φD≥12.5</td> <td colspan="8"></td> </tr> </table>									Capacitance Change	Within ±25% of the initial value.								Dissipation Factor	Not more than 200% of the specified value.								Leakage Current	Not more than the specified value.								Case Size	Life Time (hrs)								L=7	1000								φD≤6.3	2000								φD= 8	3000								L≥11	4000								φD= 10	5000								φD≥12.5								
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage (Vdc)</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>Z(−25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(−40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> (120Hz)									Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	Z(−25°C)/Z(20°C)	2	2	2	2	2	2	2	2	Z(−40°C)/Z(20°C)	3	3	3	3	3	3	3	3																																																															
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◆MULTIPLIER FOR RIPPLE CURRENT

	Frequency(Hz)	120	1k	10k	100k≤
Coefficient	5.6~68μF	0.40	0.70	0.90	1.00
	82~270μF	0.50	0.73	0.92	1.00
	330~680μF	0.55	0.77	0.94	1.00
	820~1800μF	0.60	0.80	0.96	1.00
	2200~6800μF	0.70	0.85	0.98	1.00

◆DIMENSIONS (mm)



◆PART NUMBER

□□□ ZL □□□□□□ M □□□ DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆OPTION

	Code
PET Sleeve	EFC

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi\text{D}\times\text{L}(\text{mm})$	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ($\Omega \text{ MAX}$)		Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi\text{D}\times\text{L}(\text{mm})$	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ($\Omega \text{ MAX}$)	
				20°C, 100kHz	-10°C, 100kHz					20°C, 100kHz	-10°C, 100kHz
6.3	39	4×7	130	0.85	2.6	16	18	4×7	130	0.92	2.8
	68	5×7	210	0.43	1.3		33	5×7	210	0.45	1.4
	150	6.3×7	300	0.23	0.69		56	5×11	250	0.30	1.0
	150	5×11	250	0.30	1.0		68	6.3×7	300	0.24	0.72
	220	8×7	380	0.15	0.45		120	8×7	380	0.15	0.45
	330	6.3×11	405	0.13	0.41		120	6.3×11	405	0.13	0.41
	560	8×11.5	760	0.072	0.22		330	8×11.5	760	0.072	0.22
	820	8×16	995	0.056	0.17		470	8×16	995	0.056	0.17
	1000	10×12.5	1030	0.053	0.16		470	10×12.5	1030	0.053	0.16
	1200	8×20	1250	0.041	0.13		680	8×20	1250	0.041	0.13
	1200	10×16	1430	0.038	0.12		680	10×16	1430	0.038	0.12
	1500	10×20	1820	0.023	0.069		1000	10×20	1820	0.023	0.069
	2200	10×23	2150	0.022	0.066		1200	10×23	2150	0.022	0.066
	3300	12.5×20	2360	0.021	0.053		1500	12.5×20	2360	0.021	0.053
	3900	12.5×25	2770	0.018	0.045		2200	12.5×25	2770	0.018	0.045
	4700	12.5×30	3290	0.016	0.041		2700	12.5×30	3290	0.016	0.041
	5600	12.5×35	3400	0.015	0.039		2700	16×20	3140	0.018	0.045
	5600	16×20	3140	0.018	0.045		3300	12.5×35	3400	0.015	0.039
	6800	16×25	3460	0.016	0.043		3900	16×25	3460	0.016	0.043
10	27	4×7	130	0.89	2.7	25	15	4×7	130	0.94	2.9
	56	5×7	210	0.44	1.4		27	5×7	210	0.46	1.4
	100	5×11	250	0.30	1.0		47	5×11	250	0.30	1.0
	120	6.3×7	300	0.23	0.69		56	6.3×7	300	0.24	0.72
	180	8×7	380	0.15	0.45		100	8×7	380	0.15	0.45
	220	6.3×11	405	0.13	0.41		100	6.3×11	405	0.13	0.41
	470	8×11.5	760	0.072	0.22		220	8×11.5	760	0.072	0.22
	680	8×16	995	0.056	0.17		330	8×16	995	0.056	0.17
	680	10×12.5	1030	0.053	0.16		330	10×12.5	1030	0.053	0.16
	1000	8×20	1250	0.041	0.13		470	8×20	1250	0.041	0.13
	1000	10×16	1430	0.038	0.12		470	10×16	1430	0.038	0.12
	1200	10×20	1820	0.023	0.069		680	10×20	1820	0.023	0.069
	1500	10×23	2150	0.022	0.066		820	10×23	2150	0.022	0.066
	2200	12.5×20	2360	0.021	0.053		1000	12.5×20	2360	0.021	0.053
	3300	12.5×25	2770	0.018	0.045		1500	12.5×25	2770	0.018	0.045
	3900	12.5×30	3290	0.016	0.041		1800	12.5×30	3290	0.016	0.041
	3900	16×20	3140	0.018	0.045		1800	16×20	3140	0.018	0.045
	4700	12.5×35	3400	0.015	0.039		2200	12.5×35	3400	0.015	0.039
	5600	16×25	3460	0.016	0.043		2700	16×25	3460	0.016	0.043



RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

ZL

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi\text{DXL}(\text{mm})$	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ($\Omega \text{ MAX}$)		Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi\text{DXL}(\text{mm})$	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ($\Omega \text{ MAX}$)	
				20°C, 100kHz	-10°C, 100kHz					20°C, 100kHz	-10°C, 100kHz
35	10	4x7	130	0.96	2.9	63	15	5x11	165	0.88	3.5
	18	5x7	210	0.47	1.5		33	6.3x11	265	0.35	1.4
	33	5x11	250	0.30	1.0		56	8x11.5	500	0.22	0.88
	39	6.3x7	300	0.25	0.75		82	8x16	665	0.16	0.64
	56	8x7	380	0.16	0.48		82	10x12.5	685	0.15	0.60
	56	6.3x11	405	0.13	0.41		120	8x20	820	0.12	0.48
	150	8x11.5	760	0.072	0.22		120	10x16	945	0.11	0.44
	220	8x16	995	0.056	0.17		180	10x20	1100	0.080	0.32
	220	10x12.5	1030	0.053	0.16		180	12.5x16	1135	0.082	0.27
	270	8x20	1250	0.041	0.13		220	10x23	1300	0.073	0.29
	330	10x16	1430	0.038	0.12		270	12.5x20	1495	0.060	0.20
	470	10x20	1820	0.023	0.069		330	12.5x25	1850	0.043	0.14
	560	10x23	2150	0.022	0.066		470	12.5x30	2250	0.039	0.13
	680	12.5x20	2360	0.021	0.053		470	16x20	1990	0.045	0.14
	1000	12.5x25	2770	0.018	0.045		560	12.5x35	2450	0.033	0.11
	1200	12.5x30	3290	0.016	0.041		560	16x25	2550	0.032	0.096
	1200	16x20	3140	0.018	0.045		680	12.5x40	2780	0.029	0.096
	1500	12.5x35	3400	0.015	0.039		680	18x20	2450	0.038	0.10
	1800	16x25	3460	0.016	0.043		820	16x31.5	2810	0.026	0.078
50	5.6	4x7	130	1.0	3.0		820	18x25	2780	0.031	0.084
	10	5x7	210	0.50	1.5		1000	16x35.5	2835	0.021	0.063
	22	6.3x7	300	0.26	0.78		1000	18x31.5	3270	0.025	0.068
	22	5x11	238	0.34	1.18		1200	16x40	3340	0.019	0.057
	33	8x7	380	0.17	0.51		1200	18x35.5	3310	0.020	0.054
	56	6.3x11	385	0.14	0.50		1500	18x40	3420	0.018	0.049
	100	8x11.5	724	0.074	0.22	100	6.8	5x11	125	1.4	5.6
	120	8x16	950	0.061	0.18		15	6.3x11	205	0.57	2.3
	150	10x12.5	979	0.061	0.18		27	8x11.5	355	0.36	1.4
	180	8x20	1190	0.046	0.14		39	8x16	450	0.25	1.0
	220	10x16	1370	0.042	0.12		47	10x12.5	450	0.24	0.96
	270	10x20	1580	0.030	0.090		56	8x20	565	0.19	0.76
	330	10x23	1870	0.028	0.085		68	10x16	580	0.18	0.72
	470	12.5x20	2050	0.027	0.068		82	10x20	750	0.13	0.52
	560	12.5x25	2410	0.023	0.059		82	12.5x16	735	0.13	0.43
	680	12.5x30	2860	0.021	0.052		100	10x23	880	0.12	0.48
	820	12.5x35	2960	0.019	0.051		120	12.5x20	1045	0.094	0.31
	820	16x20	2730	0.023	0.059		180	12.5x25	1195	0.071	0.23
	1000	16x25	3010	0.021	0.056		220	12.5x30	1410	0.063	0.21
							220	16x20	1295	0.071	0.21
							270	12.5x35	1560	0.052	0.17
							270	16x25	1600	0.053	0.16
							270	18x20	1470	0.069	0.19
							330	12.5x40	1700	0.046	0.15
							390	16x31.5	1750	0.041	0.12
							390	18x25	1620	0.049	0.13
							470	16x35.5	1890	0.033	0.10
							470	18x31.5	1775	0.039	0.11
							560	16x40	2080	0.030	0.090
							560	18x35.5	2060	0.031	0.084
							680	18x40	2570	0.028	0.076

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