

ZLH SERIES

105°C Miniaturized, Long Life, Low Impedance

• Load Life : 105°C 6000~10000 hours.

RoHS
compliance

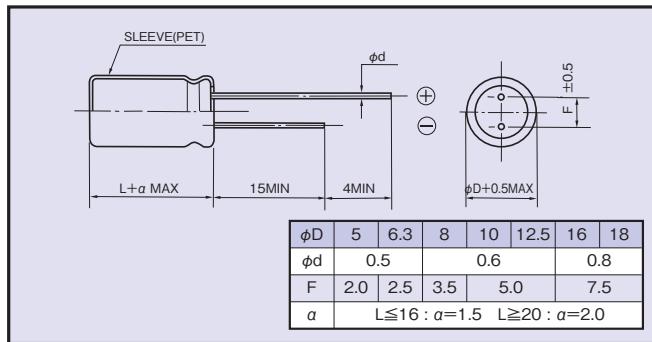
◆SPECIFICATIONS

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)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	80	100															
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08															
	(20°C,120Hz) When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.																								
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>Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%)</td> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>φD≤ 6.3</td> <td>6000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>φD= 8</td> <td>8000</td> </tr> <tr> <td></td> <td></td> <td>φD≥ 10</td> <td>10000</td> </tr> </table>									Capacitance Change	Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%)	Case Size	Life Time (hrs)	Dissipation Factor	Not more than 200% of the specified value.	φD≤ 6.3	6000	Leakage Current	Not more than the specified value.	φD= 8	8000			φD≥ 10	10000
Capacitance Change	Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%)	Case Size	Life Time (hrs)																						
Dissipation Factor	Not more than 200% of the specified value.	φD≤ 6.3	6000																						
Leakage Current	Not more than the specified value.	φD= 8	8000																						
		φD≥ 10	10000																						
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	80	100															
	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	2	2	2															
	Z(-40°C)/Z(20°C)	3	3	3	3	3	3	3	3	3															

◆MULTIPLIER FOR RIPPLE CURRENT

	Frequency(Hz)	120	1k	10k	100k≤
Coefficient	8.2~33μF	0.42	0.70	0.90	1.00
	47~270μF	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
	2200~8200μF	0.70	0.85	0.98	1.00

◆DIMENSIONS (mm)



◆PART NUMBER

□□□ ZLH □□□□□
 Rated Voltage Series Capacitance M Option □□ DXL Case Size

◆OPTION

	Code
PET Sleeve	EFC

◆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
6.3	220	5×11	345	0.22	0.80	25	68	5×11	345	0.22	0.80
	470	6.3×11	540	0.094	0.35		150	6.3×11	540	0.094	0.35
	820	8×11.5	945	0.056	0.19		330	8×11.5	945	0.056	0.19
	1200	8×16	1250	0.045	0.15		390	8×16	1250	0.045	0.15
	1200	10×12.5	1330	0.039	0.14		470	10×12.5	1330	0.039	0.14
	1500	8×20	1500	0.029	0.11		560	8×20	1500	0.029	0.11
	1800	10×16	1760	0.028	0.10		680	10×16	1760	0.028	0.10
	2200	10×20	1960	0.020	0.060		820	10×20	1960	0.020	0.060
	2700	10×23	2250	0.018	0.054		1000	10×23	2250	0.018	0.054
	3900	12.5×20	2480	0.017	0.043		1500	12.5×20	2480	0.017	0.043
	4700	12.5×25	2900	0.015	0.038		1800	12.5×25	2900	0.015	0.038
	5600	12.5×30	3450	0.013	0.033		2200	12.5×30	3450	0.013	0.033
	6800	16×20	3250	0.015	0.038		2200	16×20	3250	0.015	0.038
	6800	12.5×35	3570	0.012	0.031		2700	12.5×35	3570	0.012	0.031
	8200	16×25	3630	0.013	0.035		3300	16×25	3630	0.013	0.035
10	150	5×11	345	0.22	0.80	35	47	5×11	345	0.22	0.80
	330	6.3×11	540	0.094	0.35		100	6.3×11	540	0.094	0.35
	680	8×11.5	945	0.056	0.19		220	8×11.5	945	0.056	0.19
	1000	8×16	1250	0.045	0.15		270	8×16	1250	0.045	0.15
	1000	10×12.5	1330	0.039	0.14		330	10×12.5	1330	0.039	0.14
	1500	8×20	1500	0.029	0.11		390	8×20	1500	0.029	0.11
	1500	10×16	1760	0.028	0.10		470	10×16	1760	0.028	0.10
	1800	10×20	1960	0.020	0.060		560	10×20	1960	0.020	0.060
	2200	10×23	2250	0.018	0.054		680	10×23	2250	0.018	0.054
	3300	12.5×20	2480	0.017	0.043		1000	12.5×20	2480	0.017	0.043
	3900	12.5×25	2900	0.015	0.038		1200	12.5×25	2900	0.015	0.038
	4700	12.5×30	3450	0.013	0.033		1500	12.5×30	3450	0.013	0.033
	4700	16×20	3250	0.015	0.038		1500	16×20	3250	0.015	0.038
	5600	12.5×35	3570	0.012	0.031		1800	12.5×35	3570	0.012	0.031
	6800	16×25	3630	0.013	0.035		2200	16×25	3630	0.013	0.035
16	100	5×11	345	0.22	0.80	50	27	5×11	238	0.34	1.18
	220	6.3×11	540	0.094	0.35		56	6.3×11	385	0.14	0.50
	470	8×11.5	945	0.056	0.19		100	8×11.5	724	0.074	0.22
	680	8×16	1250	0.045	0.15		120	8×16	950	0.061	0.18
	680	10×12.5	1330	0.039	0.14		150	10×12.5	979	0.061	0.18
	1000	8×20	1500	0.029	0.11		180	8×20	1190	0.046	0.14
	1000	10×16	1760	0.028	0.10		220	10×16	1370	0.042	0.12
	1500	10×20	1960	0.020	0.060		270	10×20	1580	0.030	0.090
	1800	10×23	2250	0.018	0.054		330	10×23	1870	0.028	0.085
	2200	12.5×20	2480	0.017	0.043		470	12.5×20	2050	0.027	0.068
	2700	12.5×25	2900	0.015	0.038		560	12.5×25	2410	0.023	0.059
	3300	12.5×30	3450	0.013	0.033		680	12.5×30	2860	0.021	0.052
	3300	16×20	3250	0.015	0.038		820	12.5×35	2960	0.019	0.051
	3900	12.5×35	3570	0.012	0.031		820	16×20	2730	0.023	0.059
	4700	16×25	3630	0.013	0.035		1000	16×25	3010	0.021	0.056



RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

ZLH

◆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
63	18	5×11	173	0.88	3.5	100	8.2	5×11	163	1.4	5.6
	47	6.3×11	278	0.35	1.4		18	6.3×11	267	0.57	2.3
	82	8×11.5	525	0.22	0.88		33	8×11.5	462	0.36	1.4
	100	8×16	688	0.16	0.64		47	8×16	585	0.25	1.0
	120	10×12.5	725	0.15	0.60		56	10×12.5	624	0.23	0.96
	150	8×20	861	0.12	0.48		68	8×20	735	0.19	0.76
	180	10×16	998	0.11	0.44		82	10×16	780	0.17	0.72
	270	10×20	1200	0.078	0.31		100	10×20	1040	0.12	0.52
	270	12.5×16	1200	0.082	0.27		100	12.5×16	975	0.13	0.43
	330	10×23	1410	0.069	0.28		120	10×23	1170	0.11	0.47
	390	12.5×20	1570	0.060	0.19		150	12.5×20	1430	0.085	0.31
	470	12.5×25	1990	0.043	0.14		220	12.5×25	1620	0.060	0.23
	560	12.5×30	2410	0.035	0.13		270	12.5×30	1950	0.051	0.21
	560	16×20	2100	0.043	0.14		270	16×20	1750	0.058	0.21
	680	12.5×35	2620	0.033	0.11		330	12.5×35	2140	0.043	0.17
	820	12.5×40	2940	0.027	0.090		390	12.5×40	2340	0.036	0.15
	820	16×25	2730	0.032	0.096		390	16×25	2210	0.044	0.16
	820	18×20	2500	0.038	0.10		390	18×20	1950	0.054	0.18
	1200	16×31.5	2990	0.024	0.068		470	16×31.5	2400	0.033	0.12
	1200	18×25	2800	0.031	0.084		470	18×25	2270	0.038	0.13
	1500	16×35.5	3040	0.021	0.057		560	16×35.5	2600	0.029	0.10
	1500	18×31.5	3300	0.025	0.068		560	18×31.5	2470	0.031	0.11
	1800	16×40	3570	0.019	0.057		680	16×40	2860	0.027	0.090
	1800	18×35.5	3570	0.020	0.054		680	18×35.5	2860	0.027	0.084
	2200	18×40	3670	0.018	0.049		820	18×40	3510	0.026	0.076
80	12	5×11	163	1.4	5.6						
	33	6.3×11	267	0.57	2.3						
	56	8×11.5	462	0.36	1.4						
	68	8×16	585	0.25	1.0						
	82	10×12.5	624	0.23	0.96						
	100	8×20	735	0.19	0.76						
	120	10×16	780	0.17	0.72						
	180	10×20	1040	0.12	0.52						
	180	12.5×16	975	0.13	0.43						
	220	10×23	1170	0.11	0.47						
	270	12.5×20	1430	0.085	0.31						
	330	12.5×25	1620	0.060	0.23						
	390	12.5×30	1950	0.051	0.21						
	390	16×20	1750	0.058	0.21						
	470	12.5×35	2140	0.043	0.17						
	560	12.5×40	2340	0.036	0.15						
	560	16×25	2210	0.044	0.16						
	560	18×20	1950	0.054	0.18						
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