

ZLH SERIES

UPGRADE

105°C Miniaturized, Long Life, Low impedance.

◆ FEATURES

- Achieved endurance improvement and miniaturization of ZL series, as well as high frequency impedance reduction.
- Load Life : 105°C 6000~10000hours.



◆ SPECIFICATIONS

Items	Characteristics																																															
Category Temperature Range	−40~+105°C																																															
Rated Voltage Range	6.3~50V.DC																																															
Capacitance Tolerance	±20% (20°C, 120Hz)																																															
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																																															
Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td colspan="4">(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</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 colspan="4"></td> </tr> </table> <p>When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.</p>										Rated Voltage(V)	6.3	10	16	25	35	50	(20°C, 120Hz)				tan δ	0.22	0.19	0.16	0.14	0.12	0.10																				
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Endurance	<p>After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td colspan="9">Within ±25% of the initial value. (6.3v,10v : ±30%)</td> </tr> <tr> <td>Dissipation Factor</td> <td colspan="9">Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td colspan="9">Not more than the specified value.</td> </tr> </table> <table border="1"> <tr> <td>Case size</td> <td>Life Time</td> </tr> <tr> <td>φ D≤ 6.3</td> <td>6000</td> </tr> <tr> <td>φ D= 8</td> <td>8000</td> </tr> <tr> <td>φ D≥ 10</td> <td>10000</td> </tr> </table>										Capacitance Change	Within ±25% of the initial value. (6.3v,10v : ±30%)									Dissipation Factor	Not more than 200% of the specified value.									Leakage Current	Not more than the specified value.									Case size	Life Time	φ D≤ 6.3	6000	φ D= 8	8000	φ D≥ 10	10000
Capacitance Change	Within ±25% of the initial value. (6.3v,10v : ±30%)																																															
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td colspan="4">(120Hz)</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 colspan="4"></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 colspan="4"></td> </tr> </table>										Rated Voltage(V)	6.3	10	16	25	35	50	(120Hz)				Z(−25°C)/Z(20°C)	2	2	2	2	2	2					Z(−40°C)/Z(20°C)	3	3	3	3	3	3									
Rated Voltage(V)	6.3	10	16	25	35	50	(120Hz)																																									
Z(−25°C)/Z(20°C)	2	2	2	2	2	2																																										
Z(−40°C)/Z(20°C)	3	3	3	3	3	3																																										

◆ I MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

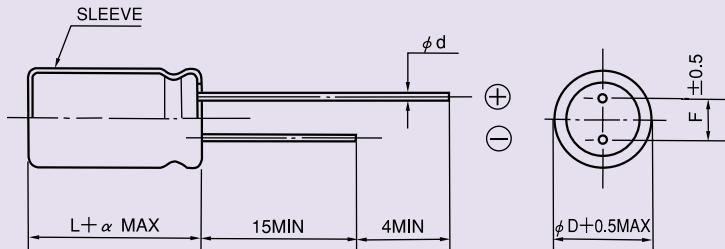
	Frequency (Hz)	120	1k	10k	100k≤
Coefficient	27~33 μF	0.42	0.70	0.90	1.00
	39~270 μF	0.50	0.73	0.92	1.00
	330~680 μF	0.55	0.77	0.94	1.00
	820~1800 μF	0.60	0.80	0.96	1.00
	2200~8200 μF	0.70	0.85	0.98	1.00

◆ PART NUMBER

□□□	ZLH	□□□□□	□
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance
		Option	
		Lead Forming	D×L ケースサイズ Case Size

◆DIMENSIONS

(mm)



ϕD	5	6.3	8	10	12.5	16
ϕd	0.5		0.6		0.8	
F	2.0	2.5	3.5	5.0		7.5
α	L≤16 : $\alpha = 1.5$	L≥20 : $\alpha = 2.0$				

◆STANDARD SIZE

Rated voltage 6.3V(0J)				
Rated capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
220	5×11	345	0.22	0.80
470	6.3×11	540	0.094	0.35
820	8×11.5	945	0.056	0.19
1200	8×16	1250	0.045	0.15
1200	10×12.5	1330	0.039	0.14
1500	8×20	1500	0.029	0.11
1800	10×16	1760	0.028	0.10
2200	10×20	1960	0.020	0.060
2700	10×23	2250	0.018	0.054
3900	12.5×20	2480	0.017	0.043
4700	12.5×25	2900	0.015	0.038
5600	12.5×30	3450	0.013	0.033
6800	16×20	3250	0.015	0.038
6800	12.5×35	3570	0.012	0.031
8200	16×25	3630	0.013	0.035



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ZLH

Rated voltage 10V(1A)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
150	5×11	345	0.22	0.80
330	6.3×11	540	0.094	0.35
680	8×11.5	945	0.056	0.19
1000	8×16	1250	0.045	0.15
1000	10×12.5	1330	0.039	0.14
1500	8×20	1500	0.029	0.11
1500	10×16	1760	0.028	0.10
1800	10×20	1960	0.020	0.060
2200	10×23	2250	0.018	0.054
3300	12.5×20	2480	0.017	0.043
3900	12.5×25	2900	0.015	0.038
4700	12.5×30	3450	0.013	0.033
4700	16×20	3250	0.015	0.038
5600	12.5×35	3570	0.012	0.031
6800	16×25	3630	0.013	0.035

Rated voltage 16V(1C)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
100	5×11	345	0.22	0.80
220	6.3×11	540	0.094	0.35
470	8×11.5	945	0.056	0.19
680	8×16	1250	0.045	0.15
680	10×12.5	1330	0.039	0.14
1000	8×20	1500	0.029	0.11
1000	10×16	1760	0.028	0.10
1500	10×20	1960	0.020	0.060
1800	10×23	2250	0.018	0.054
2200	12.5×20	2480	0.017	0.043
2700	12.5×25	2900	0.015	0.038
3300	12.5×30	3450	0.013	0.033
3300	16×20	3250	0.015	0.038
3900	12.5×35	3570	0.012	0.031
4700	16×25	3630	0.013	0.035

Rated voltage 25V(1E)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
68	5×11	345	0.22	0.80
150	6.3×11	540	0.094	0.35
330	8×11.5	945	0.056	0.19
390	8×16	1250	0.045	0.15
470	10×12.5	1330	0.039	0.14
560	8×20	1500	0.029	0.11
680	10×16	1760	0.028	0.10
820	10×20	1960	0.020	0.060
1000	10×23	2250	0.018	0.054
1500	12.5×20	2480	0.017	0.043
1800	12.5×25	2900	0.015	0.038
2200	12.5×30	3450	0.013	0.033
2200	16×20	3250	0.015	0.038
2700	12.5×35	3570	0.012	0.031
3300	16×25	3630	0.013	0.035



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ZLH

Rated voltage 35V(1V)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
47	5×11	345	0.22	0.80
100	6.3×11	540	0.094	0.35
220	8×11.5	945	0.056	0.19
270	8×16	1250	0.045	0.15
330	10×12.5	1330	0.039	0.14
390	8×20	1500	0.029	0.11
470	10×16	1760	0.028	0.10
560	10×20	1960	0.020	0.060
680	10×23	2250	0.018	0.054
1000	12.5×20	2480	0.017	0.043
1200	12.5×25	2900	0.015	0.038
1500	12.5×30	3450	0.013	0.033
1500	16×20	3250	0.015	0.038
1800	12.5×35	3570	0.012	0.031
2200	16×25	3630	0.013	0.035

Rated voltage 50V(1H)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance(Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
27	5×11	238	0.34	1.18
56	6.3×11	385	0.14	0.50
100	8×11.5	724	0.074	0.22
120	8×16	950	0.061	0.18
150	10×12.5	979	0.061	0.18
180	8×20	1190	0.046	0.14
220	10×16	1370	0.042	0.12
330	10×20	1580	0.030	0.090
330	10×23	1870	0.028	0.085
470	12.5×20	2050	0.027	0.068
560	12.5×25	2410	0.023	0.059
680	12.5×30	2860	0.021	0.052
820	12.5×35	2960	0.019	0.051
820	16×20	2730	0.023	0.059
1000	16×25	3010	0.021	0.056

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