



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



ZLG SERIES
Load Life: 105°C 1000~5000hours. Ultra Low impedance.
◆FEATURES

- Extremely reduced impedance at high frequency range than ZL series.
- Load Life : 105°C 1000~5000 hours.
- RoHS compliance.


◆SPECIFICATIONS

Items	Characteristics																					
Category Temperature Range	-40~+105°C																					
Rated Voltage Range	6.3~35V.DC																					
Capacitance Tolerance	±20%(20°C,120Hz)																					
Leakage Current(MAX)	I=0.03CV or 3µA whichever is greater.(After 2 minutes) I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(V)																					
(tanδ) 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>(20°C,120Hz)</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></td> </tr> </table> <p>When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>	Rated Voltage (V)	6.3	10	16	25	35	(20°C,120Hz)	tanδ	0.22	0.19	0.16	0.14	0.12								
Rated Voltage (V)	6.3	10	16	25	35	(20°C,120Hz)																
tanδ	0.22	0.19	0.16	0.14	0.12																	
Endurance	<p>After life test with rated ripple current at conditions stated in the table below at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> <td rowspan="3"> <table border="1"> <tr> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> <tr> <td>L=7</td> <td>1000</td> </tr> <tr> <td rowspan="4">L≥11</td> <td>φD≤6.3</td> <td>2000</td> </tr> <tr> <td>φD= 8</td> <td>3000</td> </tr> <tr> <td>φD= 10</td> <td>4000</td> </tr> <tr> <td>φD≥12.5</td> <td>5000</td> </tr> </table> </td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>	Capacitance Change	Within ±25% of the initial value.	<table border="1"> <tr> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> <tr> <td>L=7</td> <td>1000</td> </tr> <tr> <td rowspan="4">L≥11</td> <td>φD≤6.3</td> <td>2000</td> </tr> <tr> <td>φD= 8</td> <td>3000</td> </tr> <tr> <td>φD= 10</td> <td>4000</td> </tr> <tr> <td>φD≥12.5</td> <td>5000</td> </tr> </table>	Case Size	Life Time (hrs)	L=7	1000	L≥11	φD≤6.3	2000	φD= 8	3000	φD= 10	4000	φD≥12.5	5000	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.	
Capacitance Change	Within ±25% of the initial value.	<table border="1"> <tr> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> <tr> <td>L=7</td> <td>1000</td> </tr> <tr> <td rowspan="4">L≥11</td> <td>φD≤6.3</td> <td>2000</td> </tr> <tr> <td>φD= 8</td> <td>3000</td> </tr> <tr> <td>φD= 10</td> <td>4000</td> </tr> <tr> <td>φD≥12.5</td> <td>5000</td> </tr> </table>	Case Size		Life Time (hrs)	L=7	1000	L≥11		φD≤6.3	2000	φD= 8	3000	φD= 10	4000	φD≥12.5	5000					
Case Size	Life Time (hrs)																					
L=7	1000																					
L≥11	φD≤6.3	2000																				
	φD= 8	3000																				
	φD= 10	4000																				
	φD≥12.5	5000																				
Dissipation Factor	Not more than 200% of the specified value.																					
Leakage Current	Not more than the specified value.																					
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>(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></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	(120Hz)	Z(-25°C)/Z(20°C)	2	2	2	2	2		Z(-40°C)/Z(20°C)	12	12	10	8	6	
Rated Voltage (V)	6.3	10	16	25	35	(120Hz)																
Z(-25°C)/Z(20°C)	2	2	2	2	2																	
Z(-40°C)/Z(20°C)	12	12	10	8	6																	

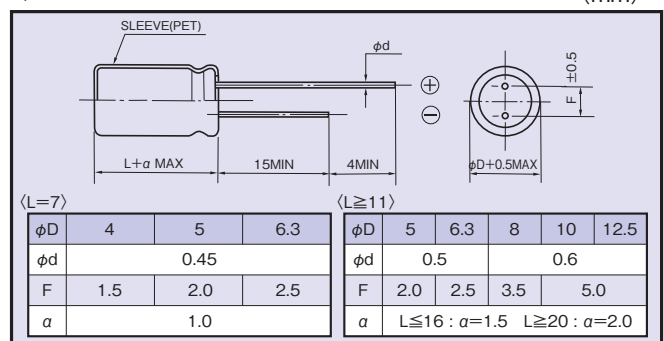
◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Frequency (Hz)		120	1k	10k	100k≤
Coefficient	4.7~10µF	0.24	0.53	0.80	1.00
	22~33µF	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
	820~1500µF	0.60	0.80	0.96	1.00
	2200~3900µF	0.70	0.85	0.98	1.00

◆DIMENSIONS

(mm)


◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

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

◆STANDARD SIZE

Rated Voltage (V·DC)	capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)		Rated Voltage (V·DC)	capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz					20°C, 100kHz	-10°C, 100kHz
6.3 (0J)	33	4×7	230	0.48	1.6	25 (1E)	10	4×7	230	0.52	1.7
	47	5×7	350	0.26	0.86		22	5×7	350	0.27	0.89
	100	6.3×7	480	0.15	0.5		33	6.3×7	480	0.16	0.53
	150	5×11	405	0.15	0.5		47	6.3×7	480	0.15	0.5
	330	6.3×11	760	0.065	0.19		47	5×11	405	0.15	0.5
	560	8×11.5	1000	0.036	0.11		100	6.3×11	760	0.065	0.19
	820	8×16	1250	0.028	0.083		220	8×11.5	1000	0.036	0.11
	1000	10×12.5	1430	0.027	0.070		330	8×16	1250	0.028	0.083
	1200	8×20	1600	0.020	0.056		330	10×12.5	1430	0.027	0.070
	1200	10×16	1820	0.020	0.056		470	8×20	1600	0.020	0.056
	1500	10×20	2180	0.014	0.033		470	10×16	1820	0.020	0.056
	1500	12.5×16	2200	0.018	0.033		680	10×20	2180	0.014	0.033
	2200	10×23	2360	0.013	0.030		680	12.5×16	2200	0.018	0.033
	3300	12.5×20	2480	0.013	0.030		820	10×23	2360	0.013	0.030
3900	12.5×25	2900	0.012	0.024	1000	12.5×20	2480	0.013	0.030		
10 (1A)	22	4×7	230	0.49	1.6	35 (1V)	4.7	4×7	230	0.64	2.1
	33	5×7	350	0.26	0.86		10	5×7	350	0.33	1.1
	47	5×7	350	0.26	0.86		22	6.3×7	480	0.17	0.56
	100	6.3×7	480	0.15	0.5		33	6.3×7	480	0.16	0.53
	100	5×11	405	0.15	0.5		33	5×11	405	0.15	0.5
	220	6.3×11	760	0.065	0.19		56	6.3×11	760	0.065	0.19
	470	8×11.5	1000	0.036	0.11		150	8×11.5	1000	0.036	0.11
	680	8×16	1250	0.028	0.083		220	8×16	1250	0.028	0.083
	680	10×12.5	1430	0.027	0.070		220	10×12.5	1430	0.027	0.070
	1000	8×20	1600	0.020	0.056		270	8×20	1600	0.020	0.056
	1000	10×16	1820	0.020	0.056		330	10×16	1820	0.020	0.056
	1200	10×20	2180	0.014	0.033		470	10×20	2180	0.014	0.033
	1200	12.5×16	2200	0.018	0.033		470	12.5×16	2200	0.018	0.033
	1500	10×23	2360	0.013	0.030		560	10×23	2360	0.013	0.030
2200	12.5×20	2480	0.013	0.030	680	12.5×20	2480	0.013	0.030		
3300	12.5×25	2900	0.012	0.024	1000	12.5×25	2900	0.012	0.024		
16 (1C)	22	5×7	350	0.27	0.89						
	33	5×7	350	0.26	0.86						
	47	6.3×7	480	0.15	0.5						
	56	5×11	405	0.15	0.5						
	120	6.3×11	760	0.065	0.19						
	330	8×11.5	1000	0.036	0.11						
	470	8×16	1250	0.028	0.083						
	470	10×12.5	1430	0.027	0.070						
	680	8×20	1600	0.020	0.056						
	680	10×16	1820	0.020	0.056						
	1000	10×20	2180	0.014	0.033						
	1000	12.5×16	2200	0.018	0.033						
	1200	10×23	2360	0.013	0.030						
	1500	12.5×20	2480	0.013	0.030						
2200	12.5×25	2900	0.012	0.024							