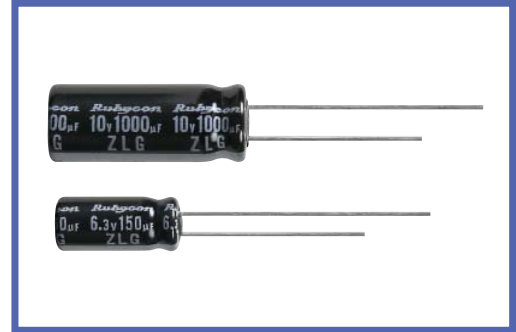


ZLG SERIES

Load Life: 105°C 1000~5000hours. Ultra Low impedance.

◆FEATURES

- Extremely reduced impedance at high frequency range than ZL series.
- Load Life : 105°C 1000~5000hours.
- 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=Rated Capacitance(µF) V=Rated Voltage(V)																					
Dissipation Factor(MAX) (tanδ)	<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 nominal 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								
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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, 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>φ D ≤ 6.3</td> <td>2000</td> </tr> <tr> <td>φ D = 8</td> <td>3000</td> </tr> <tr> <td>φ D = 10</td> <td>4000</td> </tr> <tr> <td>φ D ≥ 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>φ D ≤ 6.3</td> <td>2000</td> </tr> <tr> <td>φ D = 8</td> <td>3000</td> </tr> <tr> <td>φ D = 10</td> <td>4000</td> </tr> <tr> <td>φ D ≥ 12.5</td> <td>5000</td> </tr> </table>	Case Size	Life Time (hrs)	L = 7	1000	L ≥ 11	φ D ≤ 6.3	2000	φ D = 8	3000	φ D = 10	4000	φ D ≥ 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>φ D ≤ 6.3</td> <td>2000</td> </tr> <tr> <td>φ D = 8</td> <td>3000</td> </tr> <tr> <td>φ D = 10</td> <td>4000</td> </tr> <tr> <td>φ D ≥ 12.5</td> <td>5000</td> </tr> </table>	Case Size		Life Time (hrs)	L = 7	1000	L ≥ 11		φ D ≤ 6.3	2000	φ D = 8	3000	φ D = 10	4000	φ D ≥ 12.5	5000					
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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>(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	
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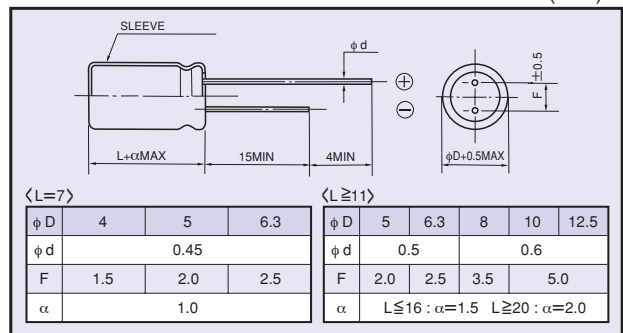
◆MULTIPLIER FOR RIPPLE CURRENT

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)



◆PART NUMBER



◆ STANDARD SIZE

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

◆ STANDARD SIZE

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