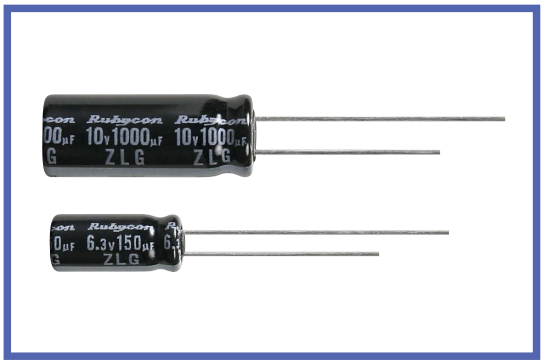
ZLG SERIES

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



◆FEATURES

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

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	－40～＋105℃
Rated Voltage Range	6.3～35V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	I=0.03CV or 3 μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tanδ)	(20℃,120Hz) When nominal capacitance is over 1000 μF, tanδ shall be added 0.02 to the listed value with increase of every 1000 μF.
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (V)	6.3	10	16	25	35
tanδ	0.22	0.19	0.16	0.14	0.12

Endurance

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
L≧11	φD≦6.3	2000
	φD= 8	3000
	φD= 10	4000
	φD≧12.5	5000

Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage (V)	6.3	10	16	25	35
Z(－25℃)/Z(20℃)	2	2	2	2	2
Z(－40℃)/Z(20℃)	12	12	10	8	6

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

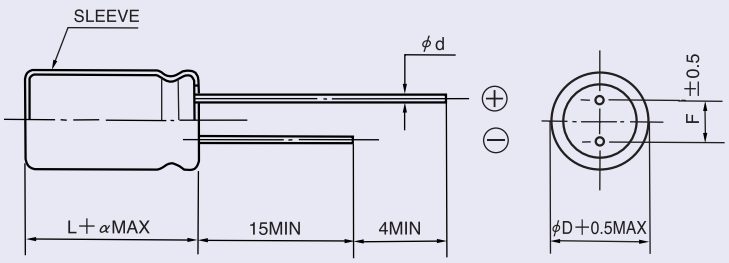
Frequency (Hz)		120	1k	10k	100k≦
Coefficient	4.7～10 μF	0.24	0.53	0.80	1.00
	22～33 μF	0.42	0.70	0.90	1.00
	39～270 μF	0.50	0.73	0.92	1.00
	330～680 μF	0.55	0.77	0.94	1.00
	820～1800 μF	0.60	0.80	0.96	1.00
	2200～3900 μF	0.70	0.85	0.98	1.00

◆PART NUMBER

□□□	ZLG	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆DIMENSIONS

(mm)



〈L=7〉

φD	4	5	6.3
φd	0.45		
F	1.5	2.0	2.5
α	1.0		

〈L≧11〉

φD	5	6.3	8	10	12.5
φd	0.5		0.6		
F	2.0	2.5	3.5	5.0	
α	L≦16 : α =1.5 L≧20 : α =2.0				

◆STANDARD SIZE

Rated voltage 6.3V(0J)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (ΩMAX)	
			20℃, 100kHz	—10℃, 100kHz
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

Rated voltage 10V(1A)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (ΩMAX)	
			20℃, 100kHz	—10℃, 100kHz
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

Rated voltage 16V(1C)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (ΩMAX)	
			20℃, 100kHz	—10℃, 100kHz
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

Rated voltage 25V(1E)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (ΩMAX)	
			20℃, 100kHz	—10℃, 100kHz
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

Rated voltage 35V(1V)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (ΩMAX)	
			20℃, 100kHz	—10℃, 100kHz
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