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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **ZLG**

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 3 μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
(tanδ) Dissipation Factor(MAX)	(20°C, 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):

Rated Voltage (V)	6.3	10	16	25	35
tan δ	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):

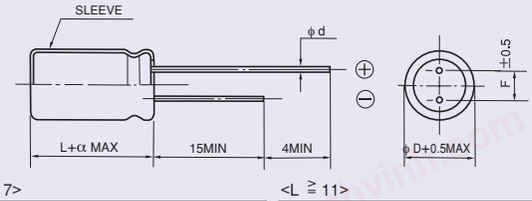
Rated Voltage (V)	6.3	10	16	25	35
Z(−25°C)/Z(20°C)	2	2	2	2	2
Z(−40°C)/Z(20°C)	12	12	10	8	6

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		120	1k	10k	100k≦
Coefficient	4.7~10 μF	0.24	0.53	0.80	1.00
	22~33 μF	0.42	0.70	0.90	1.00
	47~270 μF	0.50	0.73	0.92	1.00
	330~680 μF	0.55	0.77	0.94	1.00
	820~1500 μF	0.60	0.80	0.96	1.00
	2200~3900 μF	0.70	0.85	0.98	1.00

◆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				

◆PART NUMBER

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

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MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ZLG

◆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 (ΩMAX)	
				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

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (ΩMAX)	
				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