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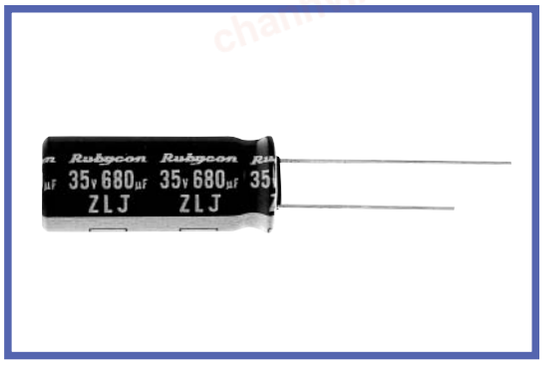
Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **ZLJ**

ZLJ SERIES

105°C Miniaturized, Long Life, Low impedance, High ripple.



◆FEATURES

- Load Life : 105°C 7000~10000hours.
- RoHS compliance

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105°C
Rated Voltage Range	10～50V.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)
(tanδ) Dissipation Factor(MAX)	(20°C, 120Hz) When nominal capacitance is over 1000 μF, tan δ 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)

Rated Voltage (V)	10	16	25	35	50
tan δ	0.19	0.16	0.14	0.12	0.10

Capacitance Change	Within ±25% of the initial value.(10V: ±30%)
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time (hrs)
5X11,6.3X11	7000
8X11.5,10X12.5	9000
8X16,8X20 10X16,10X20,10X25	10000

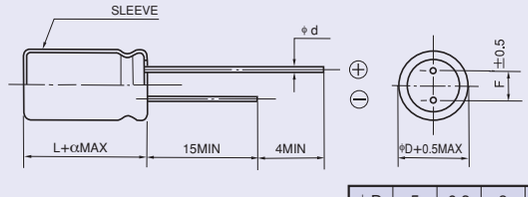
Rated Voltage (V)	10	16	25	35	50
Z(−25°C)/Z(20°C)	2	2	2	2	2
Z(−40°C)/Z(20°C)	3	3	3	3	3

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		120	1k	10k	100k ≦
Coefficient	27 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
	820～1800 μF	0.60	0.80	0.96	1.00
	2200 μF	0.70	0.85	0.98	1.00

◆DIMENSIONS (mm)



φD	5	6.3	8	10
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

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

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◆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
10 (1A)	150	5×11	450	0.40	1.2
	330	6.3×11	700	0.17	0.51
	560	8×11.5	1200	0.075	0.23
	680	8×16	1600	0.059	0.18
	820	10×12.5	1700	0.053	0.16
	1000	8×20	1960	0.041	0.13
	1200	10×16	2000	0.038	0.12
	1800	10×20	2500	0.028	0.084
	2200	10×25	2900	0.024	0.072
16 (1C)	120	5×11	450	0.40	1.2
	270	6.3×11	700	0.17	0.51
	470	8×11.5	1200	0.075	0.23
	560	8×16	1600	0.059	0.18
	680	10×12.5	1700	0.053	0.16
	820	8×20	1960	0.041	0.13
	1000	10×16	2000	0.038	0.12
	1500	10×20	2500	0.028	0.084
	1800	10×25	2900	0.024	0.072
25 (1E)	68	5×11	450	0.40	1.2
	150	6.3×11	700	0.17	0.51
	330	8×11.5	1200	0.075	0.23
	390	8×16	1600	0.059	0.18
	470	10×12.5	1700	0.053	0.16
	560	8×20	1960	0.041	0.13
	680	10×16	2000	0.038	0.12
	1000	10×20	2500	0.028	0.084
	1200	10×25	2900	0.024	0.072
35 (1V)	47	5×11	450	0.40	1.2
	100	6.3×11	700	0.17	0.51
	180	8×11.5	1200	0.075	0.23
	220	8×16	1600	0.059	0.18
	270	10×12.5	1700	0.053	0.16
	330	8×20	1960	0.041	0.13
	390	10×16	2000	0.038	0.12
	560	10×20	2500	0.028	0.084
	680	10×25	2900	0.024	0.072
50 (1H)	27	5×11	310	0.48	1.5
	56	6.3×11	500	0.22	0.66
	100	8×11.5	950	0.12	0.36
	120	8×16	1230	0.082	0.25
	150	10×12.5	1280	0.073	0.22
	180	8×20	1580	0.058	0.18
	220	10×16	1650	0.053	0.16
	330	10×20	2060	0.038	0.12
	390	10×25	2420	0.032	0.10