

ZLJ SERIES

NEW

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

◆ FEATURES

- Load Life : 105°C 7000~10000hours.



◆ 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 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>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tanδ</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table> (20°C,120Hz) When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.	Rated Voltage (V)	10	16	25	35	50	tanδ	0.19	0.16	0.14	0.12	0.10								
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Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. <table border="1"><tr><td>Capacitance Change</td><td>Within ±25% of the initial value.(10V: ±30%)</td><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td><td>5×11,6.3×11</td><td>7000</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td><td>8×11.5,10×12.5</td><td>9000</td></tr><tr><td></td><td></td><td>8×16,8×20</td><td>10000</td></tr><tr><td></td><td></td><td>10×16,10×20,10×25</td><td></td></tr></table>	Capacitance Change	Within ±25% of the initial value.(10V: ±30%)	Case Size	Life Time (hrs)	Dissipation Factor	Not more than 200% of the specified value.	5×11,6.3×11	7000	Leakage Current	Not more than the specified value.	8×11.5,10×12.5	9000			8×16,8×20	10000			10×16,10×20,10×25	
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"><tr><td>Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</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></tr><tr><td>Z(-40°C)/Z(20°C)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)	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		
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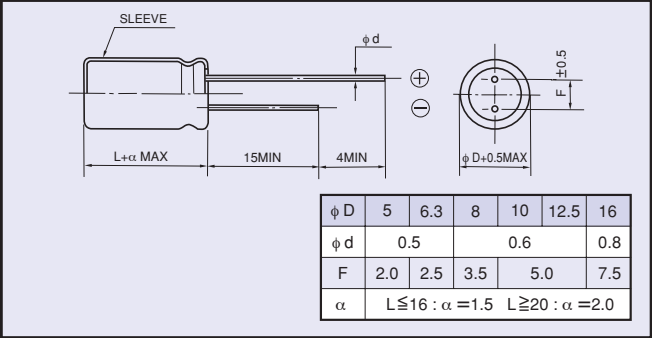
◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

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

◆ DIMENSIONS

(mm)



◆ PART NUMBER

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

◆ 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
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