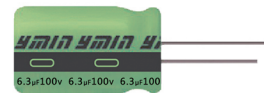


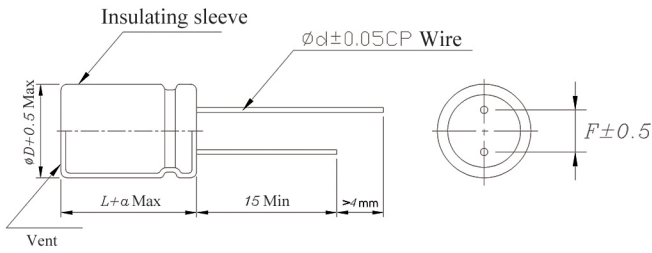
LKJ

- ◆ 105°C 5000~10000 Hours
- ◆ Used For Smart Meter
- ◆ Long Life, Low ESR, Small Size
- ◆ RoHS Compliant



■ Specification

Items	Characteristics																											
Operation Temperature Range	-55°C ~ +105°C																											
Rated Voltage	6.3 ~ 100V.DC																											
Capacitance Tolerance	±20% (20±2°C 120Hz)																											
Leakage Current(µA)	CV≤1000 I≤0.01CV or 3µA whichever is greater C:rated capacitance(µF) V:rated voltage(V) 2 minutes reading																											
	CV>1000 I≤0.006CV +4µA C:rated capacitance(µF) V:rated voltage(V) 2 minutes reading																											
Dissipation Factor (25±2°C 120Hz)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage(V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>tgδ</th> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table>										Rated Voltage(V)	6.3	10	16	25	35	50	63	100	tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100																			
tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
For those with rated capacitance larger than 1000µF, when the rated capacitance is increased by 1000µF, then tgδ will be increased by 0.02																												
Temperature Characteristics (120Hz)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage(V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>Z(-40°C)/Z(20°C)</th> <td>7</td> <td>5</td> <td>5</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>										Rated Voltage(V)	6.3	10	16	25	35	50	63	100	Z(-40°C)/Z(20°C)	7	5	5	4	4	4	4	4
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100																			
Z(-40°C)/Z(20°C)	7	5	5	4	4	4	4	4																				
Endurance	After standard test time with applying the rated voltage with the rated ripple current in the oven at 105°C, the following specification shall be satisfied after 16 hours at 25±2°C.																											
	Capacitance change					within±20% of the initial value																						
	Dissipation Factor					Not more than 200% of the specified value																						
	Leakage current					Not more than the specified value																						
	Load life(hours)					Not more than the specified value		6.3 ~ 10V		16 ~ 100V																		
								Load life		Load life																		
					ΦD=5		5000hrs		5000hrs																			
					ΦD=6.3,8		6000hrs		7000hrs																			
					ΦD≥10		8000hrs		10000hrs																			
Shelf Life At High Temperature	After leaving capacitors under no load at 105°C for 1000 hours, the following specification shall be satisfied at 25±2°C.																											
	Capacitance change					within±20% of the initial value																						
	Dissipation Factor					Not more than 200% of the specified value																						
	Leakage current					Not more than 200% of the specified value																						

Standard Size (Unit: mm)


$L \leq 16$	$a = 1.5$
$L > 16$	$a = 2.0$

D	5	6.3	8	10	12.5	16	18
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

Remark: capacitors with diameter more than 6.3 have safety vent

Ripple Current Correction Factor
① Frequency Correction Factor

6.3WV ~ 50WV

Frequency(Hz)		120	1K	10K	100K ≤
Coefficient	0.47 ~ 10 μ F	0.42	0.60	0.80	1.00
	22 ~ 33 μ F	0.55	0.75	0.90	1.00
	47 ~ 330 μ F	0.70	0.85	0.95	1.00
	470 ~ 1000 μ F	0.75	0.90	0.98	1.00
	2200 ~ 15000 μ F	0.80	0.95	1.00	1.00

63WV ~ 100WV

Frequency(Hz)	120	1K	10K	100K ≤
Coefficient	0.42	0.60	0.80	1.00

② Temperature Correction Factor

Environment Temperature(°C)	50	70	85	105
Correction Factor	2.1	1.8	1.4	1.0

■ Standard Size

Voltage (V)	6.3			10			16			25			
	Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)
33											5×11	0.40	250
47								5×11	0.40	250	5×11	0.40	250
100		5×11	0.90	150	5×11	0.90	150	5×11	0.40	250	5×11	0.40	250
220		5×11	0.40	250	5×11	0.40	250	6.3×11	0.22	400	6.3×11	0.22	400
330		6.3×11	0.22	340	6.3×11	0.22	400	6.3×11	0.22	400	8×11.5	0.13	640
470		6.3×11	0.22	400	6.3×11	0.22	400	8×11.5	0.13	640	10×12.5	0.080	865
1000		8×11.5	0.13	640	10×12.5	0.080	865	10×16	0.062	1210	10×20	0.046	1400
2200		10×16	0.038	1300	10×20	0.046	1400	12.5×20	0.041	1900	12.5×25	0.032	2230
3300		10×20	0.046	1400	12.5×20	0.041	1900	12.5×25	0.032	2230	16×25	0.021	2930
4700		12.5×25	0.032	2230	12.5×25	0.032	2230	16×25	0.021	2930	16×31.5	0.019	3450
6800		12.5×25	0.032	2230	16×25	0.021	2930	16×31.5	0.019	3450			
10000		16×25	0.021	2930	16×31.5	0.019	3450						
15000		16×35.5	0.015	3610									

Voltage (V)	35			50			63			100			
	Items Capacitance (μF)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)	Size D×L(mm)	Impedance (Ω max/100KHz 20±2°C) /105°C100KHz)	Ripple Current (mA/r.m.s /105°C100KHz)
0.47					5×11	5.50	17				5×11	6.00	15
1.0					5×11	4.00	30				5×11	4.50	20
2.2					5×11	2.50	43				5×11	3.00	30
3.3					5×11	2.20	53				5×11	2.70	40
4.7					5×11	1.90	88				5×11	2.50	65
10					5×11	1.50	100	5×11	0.88	173	5×11	1.40	163
22					5×11	0.90	150	5×11	0.88	173	6.3×11	0.57	267
33		5×11	0.40	250	5×11	0.70	250	6.3×11	0.35	278	8×11.5	0.36	462
47		5×11	0.40	250	6.3×11	0.40	250	6.3×11	0.35	278	8×16	0.25	585
100		6.3×11	0.22	400	8×11.5	0.25	400	10×12.5	0.15	725	10×20	0.12	1040
220		8×11.5	0.13	640	10×16	0.12	770	10×20	0.078	1200	12.5×25	0.060	1620
330		10×12.5	0.080	865	10×20	0.078	1050	12.5×20	0.060	1570	16×25	0.044	2210
470		10×16	0.062	1210	12.5×20	0.062	1300	12.5×25	0.043	1990			
1000		12.5×20	0.041	1900	16×25	0.034	1850	16×25	0.032	2730			
2200		16×25	0.038	2930	16×35.5	0.019	3150						
3300		16×31.5	0.019	3450									