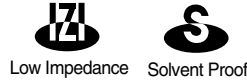
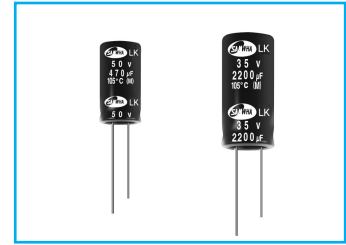
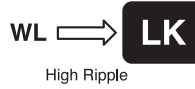


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

LK High Ripple Current Series



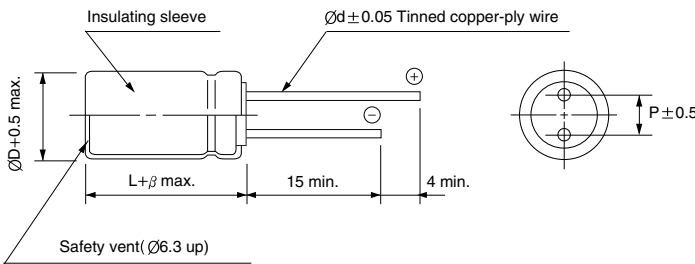
- Low impedance compared with WL series
- Enabled high ripple current by a reduction of impedance at high frequency
- High reliability withstanding 5000 hours load life at 105°C (2000 ~ 4000 hours for smaller case sizes as specified below)
- Complied to the RoHS directive



Item	Characteristics																	
Operating temperature range	-40 ~ +105°C																	
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes) I = 0.03CV or 4μA whichever is greater (after 1 minute)																	
Capacitance tolerance	±20% (20°C, 120Hz)																	
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000μF : tanδ increases by 0.02 for each 1000μF from below value.																	
	<table border="1"> <tr> <td>WV</td> <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> <td>tanδ</td> <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>	WV	6.3	10	16	25	35	50	63	100	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09
WV	6.3	10	16	25	35	50	63	100										
tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08										
Low temperature characteristics (Impedance ratio at 120Hz)	Z-40°C / Z+20°C																	
	Z-25°C / Z+20°C																	
Load life (after application of the rated voltage for 5000 hours at 105°C)	Leakage current																	
	Capacitance change																	
	tanδ																	
	∅5, 6.3 : 2000 hours, ∅8 : 3000 hours, ∅10 : 4000 hours																	
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.																	

● DRAWING

Unit : mm



∅D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
∅d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.5			2.0			

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF \ Frequency(Hz)	120	1k	10k	100k≤
~ 33	0.32	0.60	0.80	1.00
39 ~ 270	0.40	0.63	0.82	1.00
330 ~ 680	0.45	0.67	0.84	1.00
820 ~ 1800	0.50	0.70	0.86	1.00
2200 ~ 6800	0.60	0.75	0.88	1.00

LK series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item μF	6.3			10			16			25		
	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
33										5×11	0.800	200
47							5×11	0.800	200	5×11	0.550	200
100	5×11	0.850	200	5×11	0.600	200	8×11.5	0.350	550	8×11.5	0.240	550
150	8×11.5	0.490	550	8×11.5	0.350	550	8×11.5	0.240	550	10×12.5	0.160	927
220	8×11.5	0.300	550	8×11.5	0.240	550	10×12.5	0.160	927	10×12.5	0.130	927
330	8×11.5	0.240	550	10×12.5	0.160	927	10×12.5	0.130	927	10×16	0.095	1100
470	10×12.5	0.140	927	10×12.5	0.130	927	10×16	0.095	1100	10×20	0.075	1280
680	10×16	0.110	1100	10×16	0.095	1100	10×20	0.075	1280	10×25	0.055	1495
1000	10×20	0.075	1280	10×20	0.075	1280	10×25	0.055	1495	12.5×25	0.043	2100
1500	10×25	0.055	1495	10×25	0.055	1495	12.5×25	0.043	2100	16×25	0.034	2607
2200	12.5×25	0.043	2100	12.5×25	0.043	2100	12.5×30	0.034	2480	16×31.5	0.032	2840
3300	12.5×30	0.034	2480	16×25	0.034	2607	16×31.5	0.032	2840	16×35.5	0.029	3017
4700	16×31.5	0.032	2840	16×31.5	0.032	2840	16×35.5	0.029	3017	18×40	0.027	3379
6800	16×35.5	0.029	3017	16×35.5	0.029	3017	18×40	0.027	3379			

WV Item μF	35			50			63			100		
	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz	∅D×L (mm)	Impedance (Ω)max. 20°C 100kHz	Ripple current (mA rms) 105°C 100kHz
1.0				5×11	4.00	36						
2.2				5×11	3.50	54				5×11	5.00	38
3.3				5×11	3.00	66				5×11	5.00	44
4.7				5×11	2.20	74				5×11	5.00	53
10				5×11	2.000	115	5×11	1.06	135	6.3×11	2.00	89
22	5×11	2.000	200	5×11	1.800	160	6.3×11	0.520	215	8×11.5	1.200	159
33	5×11	1.500	200	6.3×11	1.200	285	8×11.5	0.350	320	10×12.5	0.800	221
47	8×11.5	0.700	550	8×11.5	0.700	550	8×11.5	0.250	365	10×16	0.600	350
100	10×12.5	0.200	927	10×12.5	0.200	927	10×20	0.120	750	12.5×20	0.300	405
150	10×12.5	0.160	927	10×16	0.120	1100	10×25	0.090	950	12.5×25	0.250	541
220	10×16	0.120	1100	10×20	0.095	1280	12.5×20	0.065	1140	16×25	0.150	885
330	10×20	0.095	1280	10×25	0.075	1495	12.5×25	0.049	1420	16×31.5	0.100	991
470	10×25	0.075	1495	12.5×25	0.055	2100	16×25	0.042	1700	18×40	0.068	1401
680	12.5×25	0.055	2100	16×25	0.043	2770	16×31.5	0.032	2050			
1000	12.5×30	0.043	2480	16×31.5	0.034	2840	18×35.5	0.029	2280			
1500	16×31.5	0.034	2840	16×35.5	0.032	3017						
2200	16×35.5	0.032	3017	18×40	0.029	3379						
3300	18×40	0.029	3379									