

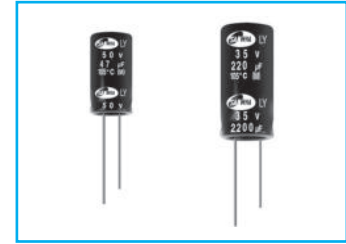
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

LY Miniature, Long Life, For LED Lighting Series

- Miniature, long life
- For LED Lighting
- High reliability withstanding 10000 hours load life at 105°C
- Complied to the RoHS directive

LL Long Life **S** Solvent Proof

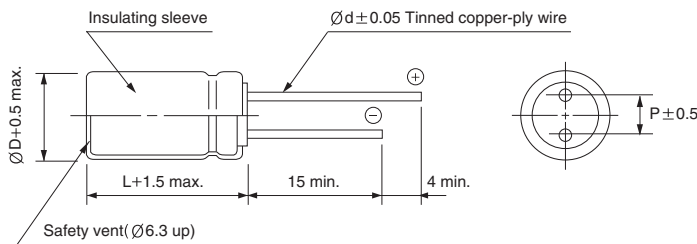
WF Long life **LY**



Item	Characteristics																
Operating temperature range	-25 ~ +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% at 120Hz, 20°C																
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <tr> <td>WV</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>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.22</td> <td>0.19</td> <td>0.17</td> <td>0.15</td> </tr> </table>	WV	10	16	25	35	50	63	100	tanδ	0.45	0.35	0.30	0.22	0.19	0.17	0.15
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Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</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>Z-25°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>4</td> <td>4</td> </tr> </table>	WV	10	16	25	35	50	63	100	Z-25°C/Z+20°C	8	6	4	4	3	4	4
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Z-25°C/Z+20°C	8	6	4	4	3	4	4										
Load life (after application of the rated voltage for 10000 hours at 105°C)	<table border="1"> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> <tr> <td>Capacitance change</td> <td>Within ±25% of the initial value</td> </tr> <tr> <td>tanδ</td> <td>Less than 200% of the specified value</td> </tr> </table>	Leakage current	Less than specified value	Capacitance change	Within ±25% of the initial value	tanδ	Less than 200% of the specified value										
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Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4																

● DRAWING

Unit : mm



ØD	5	6.3	8
P	2.0	2.5	3.5
Ød	0.5	0.5	0.6

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV Item µF	10		16		25		35		50		63		100	
	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz	ØD×L (mm)	Ripple current (mA rms) 105°C 100kHz
1.0									5×11	32				
2.2									5×11	42				
3.3									5×11	84				
4.7									5×11	96				
10									5×11	108			6.3×11	205
22									5×11	132	6.3×11	265	8×11.5	240
33					5×11	156	5×11	175	6.3×11	228	6.3×11	265	8×11.5	240
47			5×11	175	5×11	175	6.3×11	252	6.3×11	228	8×11.5	270		
100	5×11	175	6.3×11	252	6.3×11	252	8×11.5	396	8×11.5	324				
220	6.3×11	252	8×11.5	396	8×11.5	396	8×15	430						
330	8×11.5	396	8×11.5	396										

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

µF	Frequency	120Hz	1kHz	10kHz	50kHz	100kHz ≤
~ 33		0.42	0.70	0.90	0.95	1.00
47 ~		0.55	0.73	0.92	0.96	1.00