

Rubycon LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS **LSW**

LSW SERIES



105°C Standard, Screw Terminal Type

◆FEATURES

- Load Life : 105°C 3000 hours.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics																																																																										
Category Temperature Range	-40~+105°C	-25~+105°C																																																																									
Rated Voltage Range	10~100V.DC	160~400V.DC																																																																									
Capacitance Tolerance	±20% (20°C, 120Hz)																																																																										
Dissipation Factor(MAX) (tan δ)	<table border="1"> <thead> <tr> <th>WV \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.75</td> <td>1.0</td> <td>1.3</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>16</td> <td>0.6</td> <td>0.7</td> <td>0.8</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>25</td> <td>0.4</td> <td>0.5</td> <td>0.7</td> <td>0.8</td> <td>0.8</td> </tr> <tr> <td>35</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.7</td> <td>0.7</td> </tr> <tr> <td>50</td> <td>0.25</td> <td>0.3</td> <td>0.5</td> <td>0.6</td> <td>0.6</td> </tr> </tbody> </table>	WV \ φD	36	51	64	77	90	10	0.75	1.0	1.3	1.5	1.5	16	0.6	0.7	0.8	1.0	1.0	25	0.4	0.5	0.7	0.8	0.8	35	0.3	0.5	0.6	0.7	0.7	50	0.25	0.3	0.5	0.6	0.6	<table border="1"> <thead> <tr> <th>WV \ φD</th> <th>36</th> <th>51</th> <th>64</th> <th>77</th> <th>90</th> </tr> </thead> <tbody> <tr> <td>63</td> <td>0.2</td> <td>0.25</td> <td>0.3</td> <td>0.4</td> <td>0.4</td> </tr> <tr> <td>80</td> <td>0.2</td> <td>0.2</td> <td>0.25</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <td>100</td> <td>0.15</td> <td>0.2</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>160~250</td> <td>0.15</td> <td>0.15</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>315~400</td> <td>0.2</td> <td>0.2</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>	WV \ φD	36	51	64	77	90	63	0.2	0.25	0.3	0.4	0.4	80	0.2	0.2	0.25	0.3	0.3	100	0.15	0.2	0.25	0.25	0.25	160~250	0.15	0.15	0.2	0.2	0.2	315~400	0.2	0.2	0.25	0.25	0.25	(20°C, 120Hz)
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Leakage Current(MAX)	I=0.02CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage) I=Leakage Current(μA) V=Rated Voltage(V) C=Rated Capacitance(μF)																																																																										
Endurance	After applying rated voltage with rated ripple current for 3000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±15% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 175% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within ±15% of the initial value.	Dissipation Factor	Not more than 175% of the specified value.	Leakage Current	Not more than the specified value.																																																																			
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Shelf Life	After storage for 500 hours with no voltage applied at 105°C, the capacitors shall be subjected to the voltage treatment in JIS C 5102 and shall be meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±15% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 150% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within ±15% of the initial value.	Dissipation Factor	Not more than 150% of the specified value.	Leakage Current	Not more than the specified value.																																																																			
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◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

周波数 (Hz) Frequency	60(50)	120	400	1k	10k≤
10~50WV	0.80	1.00	1.03	1.05	1.08
63~100WV	0.80	1.00	1.05	1.07	1.10
160~400WV	0.80	1.00	1.10	1.13	1.18

◆PART NUMBER



◆DIMENSIONS

φ D	W1	W2	W3	W4	W5	P
36	24.0	30.0	3.5	7	10	12.7
51	32.5	37.5	4.5	6	12	21.8
64	38.0	43.0	4.5	8	14	28.2
77	43.5	49.0	4.5	7	14	31.4
90	50.8	56.0	4.5	8	16	31.4



※ Please notice the following conditions for use.

- (1) Maximum screw terminal tightening torque; 33kg·Ecm or less.
- (2) Maximum ripple current shall be 50Arms or less because of the rated current of M5 screw terminal.

◆ STANDARD SIZE, RATED RIPPLE CURRENT

WV Cap(μF)	10V		16V		25V		35V		50V		63V		80V		
3300														36×50	3.0
3900														36×63	3.3
4700												36×50	3.2	36×83	3.6
5600												36×63	3.5	36×83	3.9
6800							36×50	2.5	36×50	3.6	36×63	3.8	36×83	4.3	4.3
8200							36×50	2.8	36×63	3.9	36×83	4.3	36×98	5.1	5.1
10000							36×50	3.8	36×83	4.2	36×83	4.7	36×118	5.8	5.8
12000							36×63	4.3	36×83	5.0	36×98	5.6	51×83	7.0	7.0
15000						36×50	4.2	36×83	4.7	36×98	5.5	36×118	6.4	51×83	7.6
18000						36×63	4.6	36×83	5.1	36×98	5.7	51×83	7.5	51×98	7.7
22000			36×50	4.0	36×83	5.2	36×98	6.6	36×118	7.5	51×83	7.5	51×118	9.0	9.0
27000	36×50	4.4	36×63	5.0	36×83	5.4	36×118	6.7	51×83	7.5	51×98	8.7	64×99	10.1	10.1
33000	36×63	5.5	36×83	5.2	36×98	6.5	51×83	7.1	51×98	9.3	51×118	10.3	64×119	11.6	11.6
39000	36×63	6.0	36×83	5.8	36×98	7.5	51×83	8.4	51×98	9.4	64×99	11.2	64×139	13.5	13.5
47000	36×83	6.6	36×98	6.8	36×118	8.9	51×98	9.9	51×118	11.7	64×119	12.9	77×101	15.8	15.8
56000	36×83	7.5	36×98	6.9	51×83	10.0	51×98	10.3	64×99	12.4	64×139	15.2	77×121	17.0	17.0
68000	36×98	7.6	36×118	8.4	51×98	10.7	51×118	11.4	64×119	15.1	77×101	16.0	77×141	20.4	20.4
82000	36×118	9.0	51×83	8.4	51×98	12.0	64×99	12.5	77×101	15.5	77×121	17.7	77×151	21.5	21.5
100000	51×83	10.2	51×98	11.3	51×118	13.1	64×119	15.5	77×101	16.3	77×141	21.5	90×151	22.3	22.3
120000	51×83	11.0	51×98	11.4	64×99	13.7	77×101	15.5	77×121	19.1	90×141	22.4			
150000	51×98	13.4	51×118	12.5	64×119	16.4	77×121	17.9	77×141	23.4					
180000	51×118	14.0	64×99	14.2	77×101	16.7	77×141	20.0	90×141	23.7					
220000	64×99	14.5	64×119	16.6	77×121	20.5	77×151	24.1							
270000	64×119	16.0	77×101	17.5	77×141	21.3	90×141	26.5							
330000	77×101	18.0	77×121	24.3	77×151	26.0									
390000	77×101	19.5	77×141	25.2	90×141	27.2									
470000	77×121	20.0	77×151	26.7											
560000	77×141	24.1	90×141	29.1											
680000	90×141	26.5													

WV Cap(μF)	100V		160V		200V		250V		315V		350V		400V		
220											36×50	0.9	36×50	1.0	
270										36×50	1.0	36×50	1.0	36×63	1.0
330										36×50	1.2	36×63	1.2	36×63	1.2
390										36×63	1.3	36×83	1.3	36×83	1.4
470							36×50	1.3	36×83	1.5	36×83	1.5	36×98	1.5	1.5
560					36×50	1.4	36×63	1.6	36×83	1.6	36×98	1.7	36×98	1.7	1.7
680					36×50	1.5	36×83	1.7	36×98	1.9	36×98	1.9	51×83	2.3	2.3
820			36×50	1.4	36×83	1.9	36×83	1.9	36×118	2.2	36×118	2.1	51×98	2.4	2.4
1000			36×63	1.9	36×83	2.2	36×98	2.3	51×83	2.3	51×98	2.5	51×118	2.7	2.7
1200			36×83	2.3	36×83	2.3	36×98	2.4	51×98	2.7	51×98	2.7	51×118	3.0	3.0
1500			36×83	2.6	36×98	2.9	36×118	2.9	51×98	3.1	51×118	3.3	64×99	3.5	3.5
1800			36×83	2.6	36×98	2.9	36×118	3.0	51×118	3.6	64×99	3.8	64×119	3.6	3.6
2200	36×50	2.9	36×98	3.2	36×118	3.3	51×98	3.8	64×99	4.2	64×119	4.6	77×101	4.1	4.1
2700	36×63	3.4	36×118	3.2	51×83	3.8	51×118	4.5	64×119	4.3	77×101	4.6	77×121	4.8	4.8
3300	36×83	3.9	36×118	3.7	51×98	4.7	64×99	5.2	77×101	4.9	77×121	5.3	77×141	5.7	5.7
3900	36×83	4.2	51×98	4.3	51×118	5.4	64×119	5.2	77×121	5.8	77×141	6.2	90×141	6.7	6.7
4700	36×83	4.6	51×98	4.8	64×99	6.2	64×119	5.7	77×121	6.3	90×141	7.4	90×141	7.4	7.4
5600	36×98	4.9	51×118	5.5	64×99	6.3	77×101	6.4	77×141	7.3	90×141	8.1			
6800	36×118	5.5	64×99	6.3	64×119	7.3	77×121	7.6	90×141	8.9					
8200	51×83	6.2	64×119	7.1	77×101	8.5	77×141	8.3							
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47000	77×141	18.3													
56000	90×141	19.2													
68000	90×151	20.1													

↑ Ripple Current (A r.m.s./120Hz, 105°C)
↑ Case Size φ D×L(mm)