

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

## LW, SW For Welding Machine Series

- For welding machine applications
- Charge and discharge characteristic : 100000 times at 5 ~ 35°C
- LW series with lug terminal type, SW series with screw terminal type
- Complied to the RoHS directive

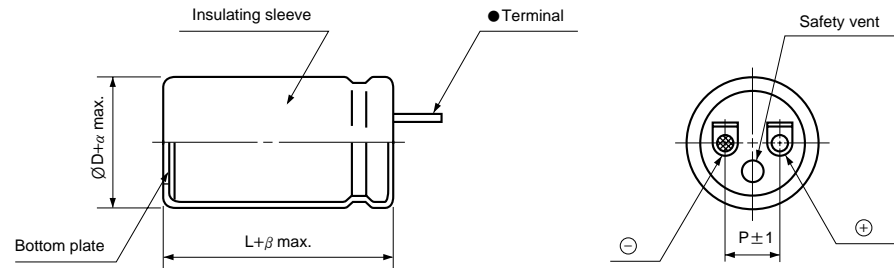


Item	Characteristics	
Operating temperature range	-25 ~ +85°C	
Capacitance tolerance	-10 ~ +50% at 120Hz, 20°C	
Leakage current max.	$I=3\sqrt{CV}$ ( $\mu A$ ) (after 5 minutes)	
Dissipation factor max.	0.20 max.at 120Hz, 20°C	
Charge and discharge characteristics	After charge and discharge for 100000 cycles at 5~35°C with application of the rate voltage, the capacitors shall be satisfied the following specifications.	
	Leakage current	Less than 150% of specified value
	Capacitance change	Within $\pm 15\%$ of initial value
	tan $\delta$	Less than 150% of specified value
	Conditions :	Charge resistance : 4 $\Omega$ Charge time : 1 sec Discharge resistance : 0.12 $\Omega$ Discharge time : 0.5sec

### DRAWING

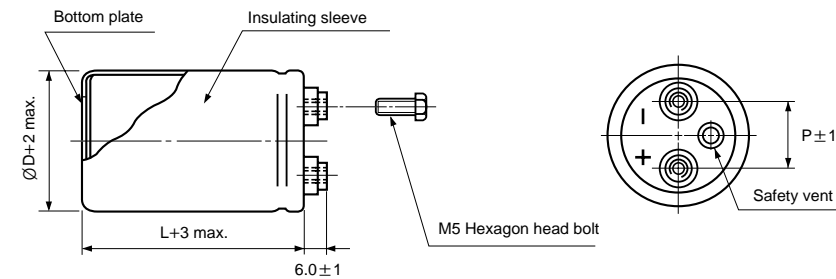
Unit : mm

#### LW series



ØD	35	40	51
P	14	18	18
α	1	2	2
β	2	3	3

#### SW series



ØD	51	63.5	76.2
P	22	28.6	31.8

### DIMENSIONS

ØD×L (mm)

WV SERIES µF	315		475	
	LW	SW	LW	SW
225			51×100	51×100
330	35×100			
470	51×100			76.2×120
1000		63.5×140		76.2×160
1500		76.2×120		
2200		76.2×160		

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS



## GT Screw Terminal Type, Standard Series

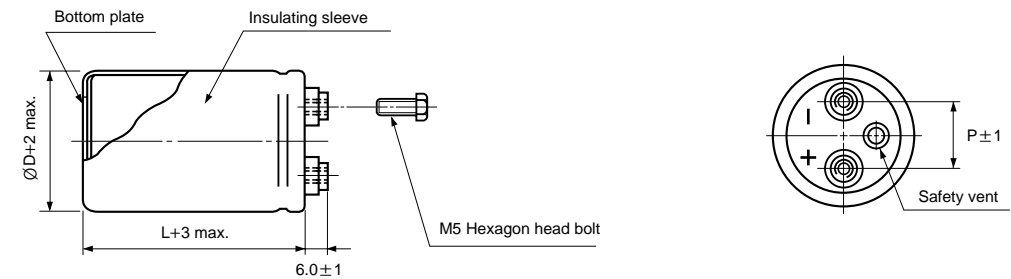
- Ideally suited for use as input and output filter capacitors in power supplies
- Suited for smoothing circuits for general purpose inverters and control circuits for F.A. machines
- Designed for use as input filter capacitor for current U.P.S.
- Complied to the RoHS directive



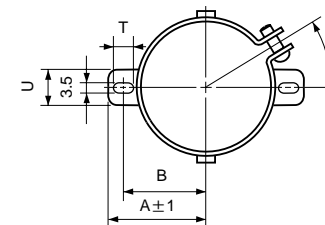
Item	Characteristics																																																												
Operating temperature range	WV ≤ 350 : -40 ~ 85°C, WV > 350 : -25 ~ +85°C																																																												
Capacitance tolerance	±20% at 120Hz, 20°C																																																												
Leakage current max.	$I=3\sqrt{CV}$ ( $\mu A$ ) (after 5 minutes)																																																												
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>ØD \ WV</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160 ~250</th> <th>350 ~450</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>0.70</td> <td>0.45</td> <td>0.45</td> <td>0.30</td> <td>0.25</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>51</td> <td>1.00</td> <td>0.60</td> <td>0.60</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.20</td> <td>0.15</td> <td>0.25</td> </tr> <tr> <td>63.5</td> <td>1.30</td> <td>0.80</td> <td>0.70</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.25</td> <td>0.20</td> <td>0.25</td> </tr> <tr> <td>76.2</td> <td>2.00</td> <td>1.20</td> <td>0.90</td> <td>0.70</td> <td>0.50</td> <td>0.45</td> <td>0.35</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>89</td> <td>2.50</td> <td>1.40</td> <td>1.00</td> <td>0.80</td> <td>0.60</td> <td>0.50</td> <td>0.40</td> <td>0.30</td> <td>0.25</td> </tr> </tbody> </table>	ØD \ WV	16	25	35	50	63	80	100	160 ~250	350 ~450	35	0.70	0.45	0.45	0.30	0.25	0.25	0.20	0.15	0.25	51	1.00	0.60	0.60	0.45	0.35	0.30	0.20	0.15	0.25	63.5	1.30	0.80	0.70	0.50	0.40	0.35	0.25	0.20	0.25	76.2	2.00	1.20	0.90	0.70	0.50	0.45	0.35	0.25	0.25	89	2.50	1.40	1.00	0.80	0.60	0.50	0.40	0.30	0.25
	ØD \ WV	16	25	35	50	63	80	100	160 ~250	350 ~450																																																			
	35	0.70	0.45	0.45	0.30	0.25	0.25	0.20	0.15	0.25																																																			
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	63.5	1.30	0.80	0.70	0.50	0.40	0.35	0.25	0.20	0.25																																																			
76.2	2.00	1.20	0.90	0.70	0.50	0.45	0.35	0.25	0.25																																																				
89	2.50	1.40	1.00	0.80	0.60	0.50	0.40	0.30	0.25																																																				
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value																																																											
	Capacitance change	WV ≤ 250 : Within $\pm 15\%$ of the initial value WV ≥ 350 : Within $\pm 20\%$ of the initial value																																																											
	tan $\delta$	WV ≤ 250 : Less than 175% of the specified value WV ≥ 350 : Less than 300% of the specified value																																																											
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tan $\delta$ are same as load life value.																																																												

### DRAWING

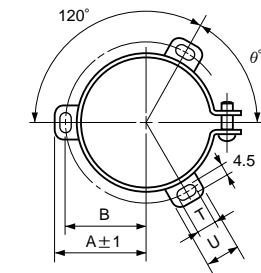
Unit : mm



#### TWO LEGS ANGLE



#### THREE LEGS ANGLE



#### TWO LEGS ANGLE SIZE TABLE

ØD	B	A	T	U	θ°	P
35	24	29	7	10	30	12.7
51	33.6	39.9	6	14	30	22
63.5	40.8	46.8	6	14	30	28.6

#### THREE LEGS ANGLE SIZE TABLE

ØD	B	A	T	U	θ°	P
51	32.9	38.9	7	12	60	22
63.5	38.4	45.3	7	14	60	28.6
76.2	44.5	51.5	8	16	60	31.8
89	50.8	61	8	16	60	31.8

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	16		25		35		50	
10000							35×60	6.2
15000					35×50	5.8	35×80	8.5
22000			35×60	7.5	35×68	7.9	35×100	11.3
33000	35×60	7.4	35×80	10.3	35×100	11.3	35×120	15.0
47000	35×80	9.9	35×100	13.5	35×120	14.6	51×100	15.2
68000	35×100	13.1	51×80	14.5	51×100	15.9	51×120	19.7
100000	51×80	13.7	51×100	19.2	51×120	20.7	63.5×120	24.2
150000	51×100	18.3	51×140	27.1	63.5×120	25.1	76.2×120	25.9
220000	51×140	25.4	63.5×120	28.4	76.2×120	27.7	76.2×160	35.1
330000	63.5×120	27.3	76.2×120	29.3	76.2×160	37.9		
470000	76.2×120	27.1	76.2×160	39.2				
680000	76.2×160	36.5						

WV μF	63		80		100		160	
1500							35×60	3.4
2200							35×80	4.6
3300							35×100	6.2
4700					35×60	5.2	51×80	7.7
6800	35×50	5.2	35×60	5.6	35×80	7.0	51×100	10.0
10000	35×60	6.8	35×80	7.6	35×100	9.4	51×140	14.1
15000	35×80	9.3	35×120	11.1	51×80	11.8	63.5×140	16.5
22000	35×120	13.4	51×80	11.7	51×100	15.6	76.2×140	17.6
33000	51×100	14.5	51×120	16.8	51×140	22.0		
47000	51×120	18.6	63.5×100	18.5	63.5×140	25.0		
68000	63.5×100	20.8	63.5×140	25.4	76.2×140	26.2		
100000	76.2×120	25.0	76.2×140	29.7				
150000	76.2×140	32.5						

WV μF	200		250	
330				
470				
680			35×50	2.1
1000	35×60	2.8	35×68	2.9
1500	35×68	3.6	35×80	3.8
2200	35×100	5.1	35×120	5.5
3300	35×120	6.7	51×100	7.0
4700	51×100	8.3	51×140	9.6
6800	51×140	11.5	63.5×120	10.0
10000	63.5×120	12.1	76.2×120	11.2
15000	76.2×120	13.7	76.2×160	15.3
22000	76.2×160	18.6		

← Ripple current (A rms) at 85°C, 120Hz  
 ← Case size ØD×L (mm)

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	Item ØD×L (mm)	350		400		450			
		Ripple current (A rms)		Ripple current (A rms)		Ripple current (A rms)			
		40°C 120Hz	85°C 120Hz	40°C 120Hz	85°C 120Hz	40°C 120Hz	85°C 120Hz		
180						35×60	2.9	1.0	
220				35×50	3.0	1.1	35×60	3.2	1.1
270	35×50	3.3	1.2	35×50	3.3	1.2	35×60	3.6	1.2
330	35×50	3.7	1.3	35×60	3.9	1.4	35×80	4.4	1.5
390	35×60	4.3	1.5	35×60	4.3	1.5	35×80	4.8	1.7
470	35×60	4.7	1.6	35×80	5.3	1.8	35×100	5.8	2.0
560	35×80	5.8	2.0	35×100	6.3	2.2	35×100	6.3	2.2
680	35×80	6.4	2.2	35×100	7.0	2.4	35×120	7.5	2.6
820	35×100	7.7	2.7	35×120	8.3	2.9	51×80	8.0	2.8
1000	35×120	9.2	3.2	51×80	8.8	3.1	51×100	9.6	3.4
1200	51×80	9.7	3.4	51×80	9.7	3.4	51×100	10.6	3.7
1500	51×80	10.8	3.8	51×100	11.8	4.1	51×120	12.7	4.4
1800	51×100	12.9	4.5	51×120	13.9	4.9	63.5×100	13.8	4.8
2200	51×120	15.4	5.4	51×140	16.4	5.7	63.5×120	16.3	5.7
2700	51×140	18.2	6.4	63.5×120	18.1	6.3	63.5×140	19.2	6.7
3300	63.5×120	20.0	7.0	63.5×140	21.3	7.4	76.2×120	20.6	7.2
3900	63.5×140	23.1	8.1	63.5×160	24.4	8.6	76.2×140	23.7	8.3
4700	63.5×160	26.8	9.4	76.2×140	26.0	9.1	76.2×160	27.5	9.6
5600	76.2×140	28.4	10.0	76.2×160	30.0	10.5	89×140	31.3	10.9
6800	76.2×160	33.0	11.6	89×140	34.5	12.1	89×160	36.3	12.7
8200	89×140	37.8	13.2	89×160	39.8	13.9			
10000	89×160	44.0	15.4	89×160	44.0	15.4			

● PERMISSIBLE RIPPLE CURRENT MULTIPLIERS

Frequency	50Hz	120Hz	300Hz	1kHz	3kHz
Coefficient	0.8	1.0	1.1	1.3	1.4

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