LSW SERIES

105℃ Standard, Screw Terminal Type

◆FEATURES

- Load Life : 105℃ 3000 hours.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	−40～+105℃	−25～+105℃
Rated Voltage Range	10～100V.DC	160～400V.DC
Capacitance Tolerance	±20% (20℃, 120Hz)	

Dissipation Factor(MAX) (tan δ) (20℃, 120Hz)

WV \ øD	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

WV \ øD	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

Leakage Current(MAX)

I=0.02CV or 5mA whichever is smaller. (After 5 minutes application of rated voltage)

I= Leakage Current (μ A) V= Rated Voltage (V) C= Rated Capacitance (μ F)

Endurance

After applying rated voltage with rated ripple current for 3000hrs at 105℃, the capacitors shall meet the following requirements.

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.

Shelf Life

After storage for 500 hours with no voltage applied at 105℃, the capacitors shall be subjected to the voltage treatment in JIS C 5102 and shall be meet the following requirements.

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.

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	400	1k	10k≦
Coefficient	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

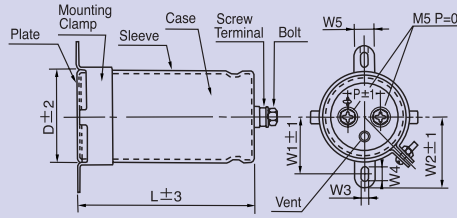
◆PART NUMBER

□□□	LSW	□□□□□	□	□□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

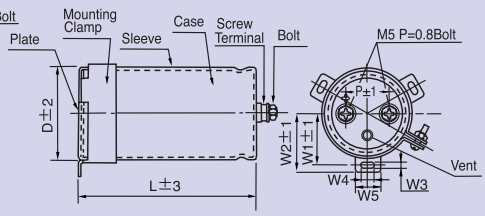
◆DIMENSIONS

(mm)

〈I type〉



〈Y type〉



	øD	W1	W2	W3	W4	W5	P
I type	36	24.0	30.0	3.5	7	10	12.7
	51	34.0	40.0	3.5	6.0	12	21.8
	64	40.0	45.0	4.5	7.0	12	28.2
	77	47.0	53.0	4.5	6.0	12	31.4
	90	54.0	60.0	4.5	6.0	14	31.4
Y type	51	32.5	37.5	4.5	6.0	12	21.8
	64	38.0	43.0	4.5	8.0	14	28.2
	77	43.5	49.0	4.5	7.0	14	31.4
	90	50.8	56.0	4.5	8.0	16	31.4

※ Please notice the following conditions for use.
(1) Maximum screw terminal tightening torque; 33kg·cm 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
8200							36×50	2.8	36×63	3.9	36×83	4.3	36×98	5.1
10000							36×50	3.8	36×83	4.2	36×83	4.7	36×118	5.8
12000							36×63	4.3	36×83	5.0	36×98	5.6	51×83	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
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
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
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
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
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
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
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
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
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
560					36×50	1.4	36×63	1.6	36×83	1.6	36×98	1.7	36×98	1.7
680					36×50	1.5	36×83	1.7	36×98	1.9	36×98	1.9	51×83	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
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
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
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
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
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
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
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
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
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
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						
10000	51×98	6.7	77×101	7.9	77×121	9.5	90×141	9.9						
12000	51×98	7.3	77×121	9.0	77×141	10.5	90×141	10.8						
15000	51×118	8.6	77×141	11.3	90×141	12.5								
18000	64×99	8.9	90×141	13.0	90×141	13.3								
22000	64×119	10.3	90×141	14.3										
27000	64×139	12.1												
33000	77×121	14.1												
39000	77×141	16.5												
47000	77×141	18.3												
56000	90×141	19.2												
68000	90×151	20.1												

Ripple Current (A r.m.s./120Hz, 105℃)
Case Size ø D×L(mm)