

Aluminum Electrolytic Capacitors

YUSCON®

SW Series

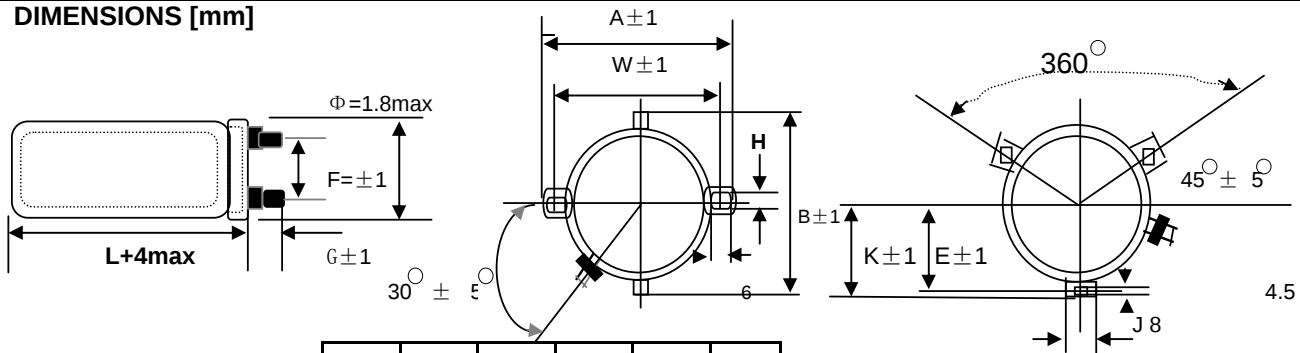
- Endurance with ripple current: 85 °C 2000 hours
- Rohs compliance.



◆ SPECIFICATIONS

Item	Characteristics
Category Temperature Range	-40~+85°C(10~100VDC) -25~+85°C(160~250VDC)
Voltage Range	10 ~ 250V.DC
Capacitance Tolerance	±20%(M) 20 °C, 120Hz
Leakage Current	I=0.02CV or 5mA whichever is smaller. (at 20 °C after 5min.) Where, I : Max. Leakage Current (µ A) 、 C : Nominal Capacitance (µ F) 、 V : Rated Voltage (V) I : LC (µ A) 、 C : CAP. (µ F) 、 V : WV (Vdc) 20 °C
Dissipation Factor(tan δ) (at 120Hz,20°C)	Shall not exceed the values shown in the STANDARD RATINGS
Low Temp. Impedance Stability at 120Hz	Capacitance change: C(-25°C) /C(+20°C) ≧ 0.7
High Temp. Load Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 85°C. Capacitance change ≧ ±20% of the initial measured value tan δ ≧ 200% of the initial specified value DC Leakage Current ≧ the initial specified value
High Temp. Non-Load Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. Capacitance Change ≧ ±20% of the initial measured value tan δ ≧ 150% of the initial specified value DC Leakage Current ≧ the initial specified value

◆ DIMENSIONS [mm]



Φ 35to Φ 63.5:G=6

Φ 76to Φ 89:G=5

ΦD	A	B	W	H	F
35	58	44	48	3.5	12.7
50	78	64	68	4.5	22.4
63.5	90	76	80	4.5	28
76	104.5	90	93.5	4.5	31.5

ΦD	E	K	J	F
50	32.5	37	14	22.4
63.5	38.1	43.5	14	28
76	44.5	50	14	31.5
89	50.8	56.5	16	31.5

Rated Voltage (VDC)	Case Diameter (mm)	Frequency(Hz)					
10 to 50	Φ 35 to Φ 89	50	120	300	1K	10K	50K
63 & 80	Φ 35	0.95	1.00	1.03	1.05	1.09	1.12
	Φ 50 to Φ 89	0.90	1.00	1.06	1.10	1.18	1.22
	Φ 50 to Φ 89	0.95	1.00	1.03	1.05	1.09	1.12
100	Φ 35	0.82	1.00	1.12	1.22	1.30	1.33
	Φ 50	0.90	1.00	1.06	1.10	1.18	1.22
	Φ 63.5 to Φ 89	0.95	1.00	1.03	1.05	1.09	1.12
160 to 250	Φ 35	0.80	1.00	1.19	1.34	1.46	1.52
	Φ 50 & Φ 63.5	0.81	1.00	1.14	1.26	1.36	1.41
	Φ 76 & Φ 89	0.82	1.00	1.12	1.22	1.30	1.33

<Screw specificatio

Plus hexagon-headed screw

M5x0.8x10

Maximum screw tightening torque:3.23Nm

SW Series

WV() Cap.(μF) - SV	10	16	25	35	50	63	80
	13	20	32	44	63	79	100
3300							35×50 2.50 0.15
3900							
4700							
5600						35×50 3.00 0.20	
6800							35×80 3.70 0.20
8200							
10000					35×50 4.1 0.25	35×80 4.0 0.25	35×100 4.90 0.20
12000							35×120 5.40 0.20
15000				35×50 3.9 0.30		35×100 5.3 0.25	50×80 6.00 0.25
18000					35×80 5.2 0.25	35×120 6.2 0.25	
22000					35×100 5.9 0.30	50×80 6.5 0.30	50×100 7.10 0.30
27000		35×50 4.2 0.45			35×120 6.6 0.35		50×120 8.60 0.30
33000				35×80 6.0 0.40		50×100 8.1 0.35	63.5×100 9.30 0.35
39000	35×50 4.7 0.6		35×80 6.2 0.40	35×100 7.0 0.40	50×80 7.4 0.40	50×120 9.6 0.35	
47000			35×100 7.4 0.40	35×120 8.0 0.45		63.5×100 10.2 0.40	63.5×120 12.0 0.35
56000		35×80 6.5 0.60	35×120 8.3 0.45		50×100 9.8 0.40		
68000				50×80 9.0 0.50	50×120 11.1 0.45	63.5×120 13.3 0.40	76×120 15.4 0.35
82000	35×80 7.4 0.60	35×100 8.0 0.70	50×80 9.7 0.50	50×100 10.3 0.55	63.5×100 12.2 0.50		76×140 18.1 0.35
100000	35×100 8 0.70	35×120 9.6 0.70	50×100 10.8 0.55			76×120 17.1 0.45	89×140 21.0 0.40
120000	35×120 9.4 0.70	50×80 9.6 0.80	50×120 12.8 0.60	50×120 12.8 0.60	63.5×120 16 0.50	76×140 19.0 0.50	
150000	35×80 9.8 0.90	50×100 11.2 0.90		63.5×100 14.0 0.70	76×120 18.1 0.60	89×140 22.0 0.55	
180000			63.5×100 14.7 0.75	63.5×120 16.6 0.70	76×140 19.5 0.70		
220000	50×100 12.1 1.00	50×120 14.2 1.00	63.5×120 16.8 0.80	76×100 17.3 0.75			
270000	50×120 13.6 1.20	63.5×100 15.3 1.20	76×100 18.3 0.90	76×120 19.8 0.80	89×140 24.6 0.80		
330000		63.5×120 17.1 1.30	76×120 20.7 1.00	76×140 22.5 0.90			
390000	63.5×100 15.3 1.50	76×100 18.0 1.60	76×140 22.1 1.20				
470000	63.5×120 16.0 2.00	76×120 19.3 1.80		89×140 28.3 1.00			
560000	76×100 17.3 2.50	76×140 20.7 2.00	89×140 25.8 1.50				
680000	76×120 18.7 3.00						

WV() Cap.(μF) - SV	100	160	200	250
	125	200	250	300
560				35×50 1.3 0.15
680				
820			35×50 1.6 0.15	
1000				
1200		35×50 2.0 0.15		35×80 2.3 0.15
1500				35×100 3.0 0.15
1800			35×80 2.8 0.15	35×120 3.3 0.15
2200	35×50 2.5 0.10	35×80 3.4 0.15	35×100 3.6 0.15	50×80 3.7 0.15
2700		35×100 3.7 0.15	35×120 4.0 0.15	
3300		35×120 4.5 0.15	50×80 4.5 0.15	50×100 5.1 0.15
3900				50×120 5.9 0.15
4700	35×80 3.4 0.15	35×80 5.6 0.20	50×100 7.1 0.15	63.5×100 6.9 0.20
5600			50×120 8.2 0.15	
6800	35×100 4.2 0.15	50×100 7.5 0.20		63.5×120 8.7 0.20
8200	35×120 5.0 0.15	50×120 8.1 0.20	63.5×100 10.0 0.20	
10000	35×80 5.2 0.20	63.5×100 9.8 0.20	63.5×120 11.0 0.20	76×120 11.1 0.20
12000		63.5×120 10.8 0.20	76×100 11.5 0.20	76×140 13.0 0.20
15000		76×100 12.7 0.20	76×120 12.8 0.20	89×140 14.9 0.20
18000	50×120 8.1 0.20	76×120 14.0 0.20	76×140 15.0 0.20	
22000	63.5×100 8.6 0.25	76×140 16.6 0.20	89×140 15.6 0.25	
27000	63.5×120 10.3 0.25			
33000	76×100 11.1 0.25	89×140 18.9 0.25		
39000	76×120 12.4 0.25			
47000	76×140 14.3 0.25			
68000	76×140 18.0 0.30			