

SM Screw Terminal Type Series

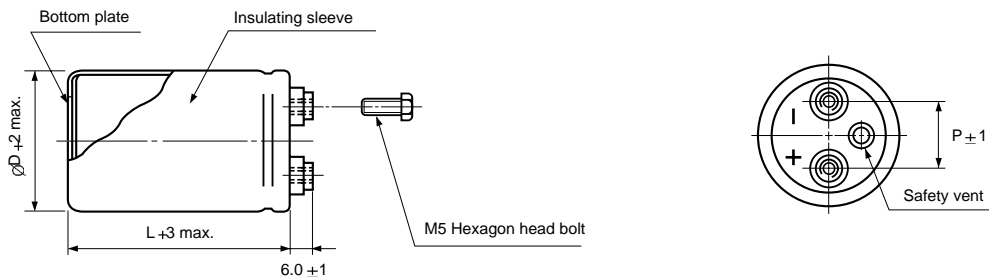
- High ripple current capability
- Ideally suited for use as input and output filter capacitors in power supplies



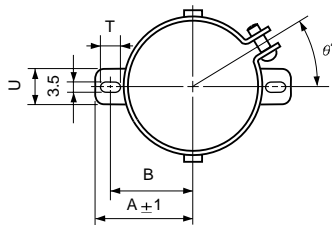
Item	Characteristics									
Operating temperature range	WV ≤ 350 : -40 ~ +85°C, WV > 350 : -25 ~ +85°C									
Capacitance tolerance	±20% at 120Hz, 20°C									
Leakage current max.	I=3√CV (μA) (after 5 minutes)									
Dissipation factor max. (at 120Hz, 20°C)	∅D \ WV	16	25	35	50	63	80	100	160~350	400,450
	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	0.40	0.35	0.25	0.25
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value								
	Capacitance change	Within ± 15% of initial value								
	tan δ	Less than 175% of specified value								
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.									

● DRAWING

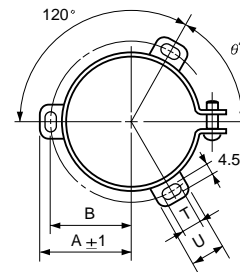
Unit : mm



● TWO LEGS ANGLE



● THREE LEGS ANGLE



● TWO LEGS ANGLE SIZE TABLE

∅D	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

∅D	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

LARGE ALUMINUM ELECTROLYTIC CAPACITORS

SM series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown WV	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						

μF \diagdown WV	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						

μF \diagdown WV	200		250		350		400	
330							35×60	1.2
470					35×60	1.9	35×80	1.7
680			35×50	2.1	35×80	2.6	35×100	2.2
1000	35×60	2.8	35×68	2.9	35×100	3.4	35×120	2.9
1500	35×68	3.6	35×80	3.8	51×80	4.3	51×100	3.7
2200	35×100	5.1	35×120	5.5	51×100	5.7	51×140	5.1
3300	35×120	6.7	51×100	7.0	51×140	8.0	63.5×120	6.2
4700	51×100	8.3	51×140	9.6	63.5×120	8.3	76.2×120	7.7
6800	51×140	11.5	63.5×120	10.0	76.2×120	9.2	76.2×160	10.3
10000	63.5×120	12.1	76.2×120	11.2	76.2×160	12.5		
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 $\varnothing D \times L$ (mm)

μF \diagdown WV	450	
220	35×50	0.9
330	35×60	1.2
470	35×80	1.7
680	35×120	2.4
1000	51×80	2.7
1500	51×120	3.9
2200	63.5×120	5.1
3300	76.2×120	6.4
4700	76.2×160	8.6

● PERMISSIBLE RIPPLE CURRENT MULTIPLIERS

WV \ Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
~ 100	0.8	1	1.1	1.15	1.2
160 ~ 250	0.8	1	1.1	1.15	1.3
315 ~	0.8	1	1.2	1.35	1.4