

ALUMINUM ELECTROLYTIC CAPACITORS

SB

Low leakage current
Series

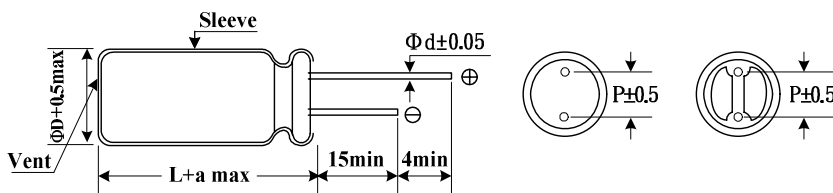
- Features: 105°C 1000 hours
- Recommended Applications:
in where low leakage current is essential as in coupling of pre-amplifiers
Remaining of very low leakage current even after prolonged storage
- Corresponding product to RoHS



Specifications

Item	Characteristics									
Operating Temperature Range	-40 ~ +105℃									
Rated Voltage Range	6.3 ~ 100VDC									
Rated Capacitance Range	1 ~ 4700 μ F									
Capacitance Tolerance	± 20 % at 120Hz , 20℃									
Leakage Current (MAX) (20℃)	I=0.002CV or 0.4 μ A ,whichever is greater. (After rated voltage applied for 2 minutes)									
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	WV	6.3	10	16	25	35	50	63	80	100
	tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.10
	When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.									
Low Temperature Stability Impedance Ratio (MAX)	WV Z(120Hz)	6.3	10	16	25	35	50	63	80	100
	Z(-25℃)/ Z(+20℃	4	3	2	2	2	2	2	1.5	1.5
	Z(-40℃)/ Z(+20℃	8	6	4	4	3	3	3	2	2
Endurance	After applying rated voltage for 1000 hours at 105℃ , the capacitors shall meet the following requirements.									
	Capacitance Change		Within ± 25 % of initial value							
	Dissipation Factor		Not more than 200% of specified value							
	Leakage Current		Not more than the specified value							
Shelf Life	After 500 hrs at 105℃ without applying rated voltage									
	Capacitance Change		Within ± 25 % of initial value							
	Dissipation Factor		Not more than 200% of specified value							
	Leakage Current		Not more than 200% of specified value							

Diagram of Dimensions



ϕD	4	5	6.3	8	10	13	16	18	22
P	1.5	2	2.5	3.5	5	5	7.5	7.5	10
ϕd	0.45	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
a	1.0	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	50	120	300	1K	10K
6.3 ~ 25 V	0.85	1.00	1.04	1.08	1.19
35 ~ 50 V	0.80	1.00	1.30	1.40	1.43
63 ~ 100 V	0.77	1.00	1.34	1.43	1.48

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■Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage					
	6.3V (8)		10V (13)		16V (20)	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1						
2.2						
3.3						
4.7						
10					5x11	40
22			5x11	50	5x11	55
33	5x11	55	5x11	60	5x11	70
47	5x11	65	5x11	75	5x11	85
100	5x11	95	5x11	110	6.3x11	140
220	6.3x11	165	6.3x11	180	8x11	230
330	6.3x11	195	8x11	250	8x11	280
470	8x11	270	8x11	300	10x12.5	400
1000	10x12.5	465	10x17	600	10x17	660
2200	13x20	925	13x20	1000	13x25	1210
3300	13x20	1100	13x25	1300	16x26	1610
4700	16x26	1600	16x26	1700	16x32	2020
6800	16x26	1810	16x32	2100	18x36	2520
10000	16x32	2210	18x36	2630	18x40	2910
15000	18x36	2760				

☆ Size: D φ x L (mm) ☆ Ripple Current: (mA/rms). 105℃, 120Hz

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■Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage					
	25V (32)		35V (44)		50V (63)	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1					5x11	10
2.2					5x11	20
3.3					5x11	30
4.7	5x11	30	5x11	35	5x11	35
10	5x11	40	5x11	45	5x11	55
22	5x11	60	5x11	65	5x11	75
33	5x11	75	5x11	80	6.3x11	100
47	5x11	90	6.3x11	110	6.3x11	120
100	6.3x11	140	8x11	180	8x11	200
220	8x11	250	10x12.5	320	10x17	400
330	10x12.5	360	10x17	450	10x20	520
470	10x17	490	10x20	570	13x20	730
1000	13x20	880	13x25	1060	16x26	1330
2200	16x26	1550	16x32	1700	18x36	2100
3300	16x32	1860	18x36	2200		
4700	18x36	2380	18x40	2610		
6800	18x40	2770				
10000						
15000						

☆ Size: D φ x L (mm) ☆ Ripple Current: (mA/rms). 105℃, 120Hz

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■Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage					
	63V (79)		80V (100)		100V (125)	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1					5x11	10
2.2					5x11	20
3.3					5x11	30
4.7	5x11	35			5x11	40
10	5x11	50	6.3x11	60	6.3x11	65
22	6.3x11	80	8x11	110	8x11	115
33	6.3x11	100	8x11	130	10x12.5	160
47	8x11	140	10x12.5	180	10x17	230
100	10x12.5	230	10x17	310	13x20	410
220	10x20	430	13x20	560	16x26	750
330	13x20	610	13x25	750	16x26	920
470	13x25	800	16x26	10x20	16x32	1200
1000	16x32	1460	18x36	1830		
2200						
3300						
4700						
6800						
10000						
15000						

☆ Size: D φ x L (mm) ☆ Ripple Current: (mA/rms). 105℃, 120Hz