

ALUMINUM ELECTROLYTIC CAPACITORS



SB & SB-H Series

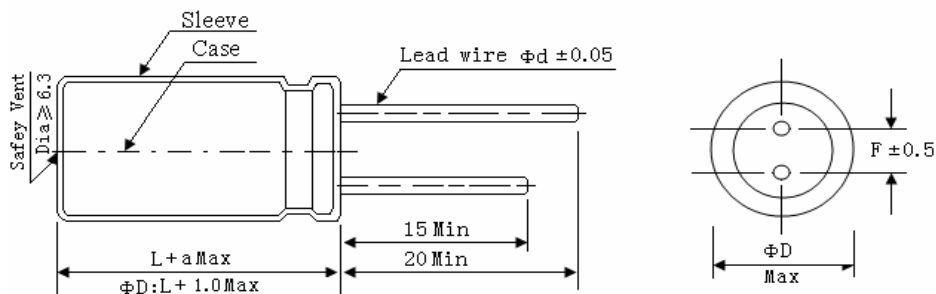
Standard miniature series with 5mm height at 85 °C & 105 °C.



SPECIFICATIONS

Item	Performance Characteristics																															
Series	SB	SB-H																														
Category Temperature Range	-40 ~ +85 °C	-40 ~ +105 °C																														
Working Voltage Range	4 ~ 50 Vdc																															
Capacitance Range	0.1 ~ 470 μF																															
Capacitance Tolerance	±20% (at 25 °C and 120Hz)																															
Dissipation Factor (tanδ) (at 25 °C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tanδ(Max)</td> <td>0.37</td> <td>0.28</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table>								Rated Voltage (V)	4	6.3	10	16	25	35	50	tanδ(Max)	0.37	0.28	0.22	0.18	0.16	0.14	0.12								
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Leakage Current	I=0.01CV or 3μA whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes.																															
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25 °C after the rated voltage applied for 1,000 hours at 85 °C (SB), or 1,000 hours at 105 °C (SB-H). <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td colspan="7">≅ ±25% of the initial value (4V:±30%)</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td colspan="7">≅ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="7">≅ specified value</td> </tr> </tbody> </table>								Capacitance change	≅ ±25% of the initial value (4V:±30%)							Dissipation factor(tanδ)	≅ 200% of the specified value							Leakage current	≅ specified value						
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Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25 °C after the rated voltage applied for 500 hours at 85 °C (SB), or 500 hours at 105 °C (SB-H) without voltage applied. <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td colspan="7">≅ ±25% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td colspan="7">≅ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="7">≅ 200% of the specified value</td> </tr> </tbody> </table>								Capacitance change	≅ ±25% of the initial value							Dissipation factor(tanδ)	≅ 200% of the specified value							Leakage current	≅ 200% of the specified value						
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Others	Conforms to JIS-C-5101-4 (1998), characteristic W.																															

DIMENSIONS (mm)



φD	4	5	6.3	8
φD	φD +0.5 Max			
φd	0.45	0.45	0.45	0.45
F	1.5	2.0	2.5	3.5

ALUMINUM ELECTROLYTIC CAPACITORS



SB Series

Case size & Permissible rated ripple current (mA rms) at 85°C/120Hz:

uF \ Vdc	4		6.3		10		16	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
0.1								
0.22								
0.33								
0.47								
1.0								
2.2								
3.3								
4.7								
10								
22							4×5	32
33					5×5	38	5×5	42
47	5×5	35	5×5	41	5×5	45	6.3×5	58
100	6.3×5	63	6.3×5	70	6.3×5	73	6.3×5	80
220	6.3×5	70	6.3×5	95	8×5	120	8×5	125
330	8×5	80	8×5	150				
470	8×5	150						

uF \ Vdc	25		35		50	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
0.1					4×5	1
0.22					4×5	2
0.33					4×5	2.8
0.47					4×5	4
1.0					4×5	8.4
2.2					4×5	13
3.3					4×5	17
4.7			4×5	18	5×5	20
10	4×5	24	5×5	29	6.3×5	33
22	5×5	37	6.3×5	46	8×5	55
33	6.3×5	45	6.3×5	50	8×5	65
47	6.3×5	60	8×5	68		
100	8×5	90				

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	60	120	1K	10K	100K
4 ~ 25	0.75	1.00	1.10	1.13	1.20
35 ~ 50	0.80	1.00	1.15	1.20	1.25