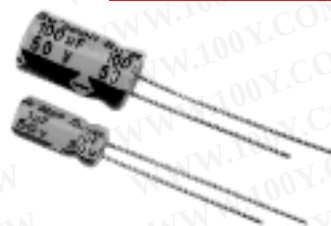


Aluminum Electrolytic Capacitors

SB Series

- Low leakage current product.
- Suitable for prepositive amplifier of high-grade audio and oscillating return of TV set.
- 低漏電產品
- 適用於高級音響的前置放大器及電視機的振蕩迴路。

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
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SPECIFICATION

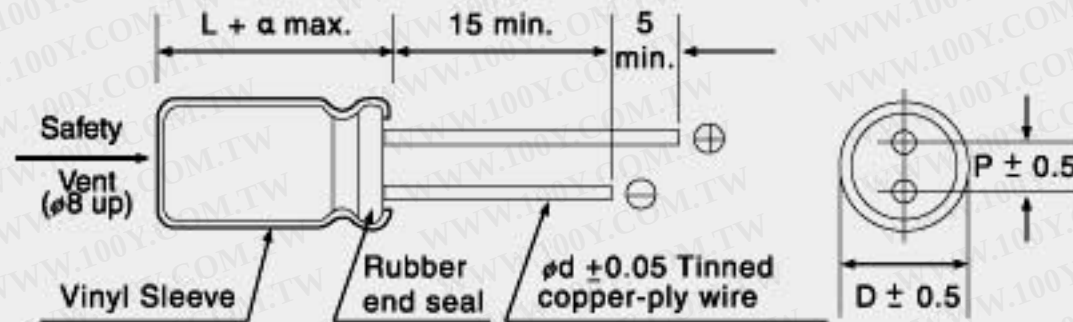
Item	項目	Character	特性																																	
Capacitance Tolerance 容量容許差		±20% (120Hz, 20°C)																																		
Operating temperature Range 適用溫度範圍		-40°C~+85°C																																		
Voltage Range 工作電壓範圍		6.3V~100V																																		
Leakage Current 洩漏電流		I ≤ 0.002CV or 0.4(μA), which is greater. (After 2 minutes application of DC working voltage, at 20°C)																																		
Dissipation Factor 散逸因素 (損失角) (tan δ)		Measurement Frequency: 120 Hz. Temperature: 20°C <table><tr><td>Rate Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>tan δ (MAX)</td><td>0.24</td><td>0.20</td><td>0.17</td><td>0.15</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table> Add 0.02 per 1000μF for more than 1000μF								Rate Voltage (V)	6.3	10	16	25	35	50	63	100	tan δ (MAX)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08									
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tan δ (MAX)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08																												
Low Temperature Stability 低溫特性		Measurement Frequency: 120 Hz.																																		
Impedance Ratio 阻抗比率 (MAX)		<table><tr><td>Rate Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Z(-25°C) / Z(20°C)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40°C) / Z(20°C)</td><td>8</td><td>6</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>								Rate Voltage (V)	6.3	10	16	25	35	50	63	100	Z(-25°C) / Z(20°C)	4	3	2	2	2	2	2	2	Z(-40°C) / Z(20°C)	8	6	6	4	4	3	3	3
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Z(-25°C) / Z(20°C)	4	3	2	2	2	2	2	2																												
Z(-40°C) / Z(20°C)	8	6	6	4	4	3	3	3																												
Load Life	負荷壽命	2000 hours, with application of working voltage at 85°C <table><tr><td>Capacitance Change</td><td colspan="8">Within ±25% of Inital Value</td></tr><tr><td>tan δ</td><td colspan="8">200% or less of Inital Specified Value</td></tr><tr><td>Leakage Current</td><td colspan="8">Inital Specified Value or less</td></tr></table>								Capacitance Change	Within ±25% of Inital Value								tan δ	200% or less of Inital Specified Value								Leakage Current	Inital Specified Value or less							
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tan δ	200% or less of Inital Specified Value																																			
Leakage Current	Inital Specified Value or less																																			
Shelf Life	放置壽命	500 hours, no voltage applied, at 85°C <table><tr><td>Capacitance Change</td><td colspan="8">Within ±25% of Inital Value</td></tr><tr><td>tan δ</td><td colspan="8">200% or less of Inital Specified Value</td></tr><tr><td>Leakage Current</td><td colspan="8">Inital Specified Value or less</td></tr></table>								Capacitance Change	Within ±25% of Inital Value								tan δ	200% or less of Inital Specified Value								Leakage Current	Inital Specified Value or less							
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Standards	標準參照	JIS C 5141 and JIS C 5102																																		

RIPPLE CURRENT COEFFICIENTS

Temperature Multiples			
TEMP(°C)	40	60	85
Coefficient	1.30	1.25	1.00

Frequency coefficient of allowable ripple current				
Cap (µF)	Frequency (Hz)			
	50	120	1K	10K
< 100	0.80	1.00	1.30	1.50
100~1000	0.80	1.00	1.15	1.20
> 1000	0.80	1.00	1.10	1.15

DIMENSIONS (mm)



ø D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ø d	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 20) 1.0
	(L ≥ 20) 2.0

DIMENSIONS

D x L (mm); R.C. (mA rms) at 85°C, 120Hz.

Cap (μ F)	WV (SV)	6.3 (8)		10 (13)		16 (20)		25 (32)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
4.7								5 x 11	45
6.8								5 x 11	55
10						5 x 11	55	5 x 11	70
15						5 x 11	70	5 x 11	85
22						5 x 11	85	5 x 11	100
33						5 x 11	100	6.3 x 11	140
47				5 x 11	100	6.3 x 11	140	6.3 x 11	170
68				6.3 x 11	150	6.3 x 11	160	8 x 12	230
100				6.3 x 11	180	8 x 12	230	8 x 12	280
150				8 x 12	250	8 x 12	280	10 x 13	370
220				8 x 12	310	10 x 13	370	10 x 16	400
330				10 x 13	400	10 x 16	420	10 x 20	490
470	10 x 13	385		10 x 16	530	10 x 16	550	10 x 20	650
680	10 x 13	480		10 x 16	600	10 x 20	720	13 x 21	800
1000	10 x 16	640		10 x 20	780	13 x 21	900	13 x 25	1000
1500	10 x 20	900		13 x 25	1020	16 x 26	1150	16 x 32	1270
2200	13 x 21	1050		13 x 25	1200	16 x 26	1300	16 x 35	1440
3300	16 x 26	1050		16 x 32	1420	16 x 36	1550	18 x 40	1720
4700	16 x 32	1500		16 x 36	1650	18 x 35	1820		

Cap (μ F)	WV (SV)	35 (44)		50 (63)		63 (79)		100 (125)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1				5 x 11	1.1			5 x 11	2.1
0.15				5 x 11	1.6			5 x 11	3.2
0.22				5 x 11	2.3			5 x 11	4.7
0.33				5 x 11	3.5			5 x 11	7.0
0.47				5 x 11	5.0			5 x 11	10.1
0.68				5 x 11	7.3			5 x 11	14.5
1.0				5 x 11	10.7			5 x 11	19
1.5				5 x 11	16			5 x 11	23
2.2				5 x 11	23			5 x 11	28
3.3				5 x 11	40			5 x 11	45
4.7	5 x 11	45		5 x 11	45			5 x 11	50
6.8	5 x 11	55		5 x 11	55	5 x 11	59	6.3 x 11	65
10	5 x 11	70		5 x 11	70	6.3 x 11	75	8 x 12	90
15	5 x 11	85		6.3 x 11	95	6.3 x 11	100	8 x 12	110
22	6.3 x 11	110		6.3 x 11	110	8 x 12	115	10 x 13	136
33	6.3 x 11	140		8 x 12	165	8 x 12	170	10 x 16	180
47	8 x 12	190		8 x 12	190	10 x 13	200	10 x 20	220
68	8 x 12	230		10 x 13	250	10 x 16	270	10 x 20	290
100	10 x 13	300		10 x 16	320	10 x 20	330	13 x 21	370
150	10 x 16	400		10 x 20	420	13 x 21	450	13 x 25	470
220	10 x 20	440		13 x 21	490	13 x 21	550	16 x 26	580
330	13 x 21	550		13 x 21	600	13 x 25	710	16 x 32	730
470	13 x 25	680		13 x 25	750	16 x 26	850	18 x 35	910
680	13 x 25	800		16 x 26	910	16 x 32	1050		
1000	16 x 26	1110		16 x 32	1140	18 x 35	1330		
1500	16 x 36	1390		18 x 40	1480				
2200	18 x 35	1580							

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