

SB Series 7 mm Non-polar 105°C



Features

- ◆ Non-polarized with 7mm height for crossover network of high-pitched, mean and low-pitched sounds in high-frequency sound systems.
- ◆ The series offers excellent frequency characteristics and minimal capacitance deviation with frequency.
- ◆ RoHS Compliant

Specifications

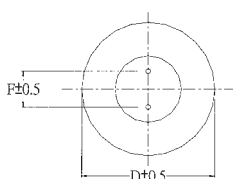
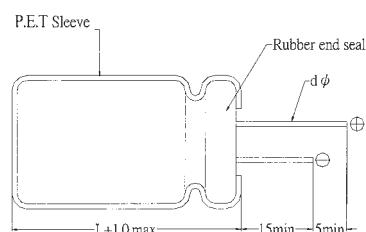
Item	Performance Characteristics																					
Operating Temperature Range	-40 to +105°C																					
Rated Voltage Range	6.3 to 50 VDC																					
Capacitance Range	0.1 to 100 µ F																					
Capacitance Tolerance	±20%(120Hz,+20°C)																					
Leakage Current (+20°C,max.)	I ≤0.05 CV or 10 (µ A) After 2 minutes,whichever is greater measured with rated working voltage applied.																					
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <thead> <tr> <th>Working Voltage(VDC)</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>D.F.(%)max.</td> <td>24</td> <td>20</td> <td>16</td> <td>16</td> <td>14</td> <td>12</td> </tr> </tbody> </table>	Working Voltage(VDC)	6.3	10	16	25	35	50	D.F.(%)max.	24	20	16	16	14	12							
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Low Temperature Characteristics (at 120Hz)	Impedance ratio max <table border="1"> <thead> <tr> <th>Rated Voltage(VDC)</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>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> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage(VDC)	6.3	10	16	25	35	50	Z-25°C / Z+20°C	4	3	2	2	2	2	Z-40°C / Z+20°C	8	6	4	4	3	3
Rated Voltage(VDC)	6.3	10	16	25	35	50																
Z-25°C / Z+20°C	4	3	2	2	2	2																
Z-40°C / Z+20°C	8	6	4	4	3	3																
Endurance	Test condition Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage to each polarity for 500Hrs After test requirement at +20°C Capacitance change : with ±20% of the initial measured value Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value																					
Shelf Life	Test condition Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																					

Radial

Multiplier for Ripple Current vs. Frequency

CAP(µ F)\Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < CAP ≤ 220	0.8	1	1.23	1.36	1.48	1.53

Diagram of Dimensions:(unit:mm)



D φ	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
d φ	0.45		0.5	

Case Size

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA rms/105°C /120Hz)
6.3	10	4x7	23
6.3	22	5x7	30
6.3	33	5x7	40
6.3	47	6.3x7	56
6.3	100	8x7	92
10	10	4x7	24
10	22	5x7	38
10	33	6.3x7	52
10	47	8x7	65
10	100	8x7	105
16	4.7	4x7	18
16	10	5x7	30
16	22	6.3x7	51
16	33	6.3x7	58
16	47	8x7	73
16	100	8x7	120
25	3.3	4x7	14
25	4.7	5x7	19
25	10	6.3x7	35

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA rms/105°C /120Hz)
25	22	6.3x7	53
25	33	8x7	70
25	47	8x7	80
35	2.2	4x7	13
35	3.3	5x7	18
35	4.7	5x7	22
35	10	6.3x7	37
35	22	8x7	58
35	33	8x7	70
50	0.1	4x7	1
50	0.22	4x7	2
50	0.33	4x7	4
50	0.47	4x7	5
50	1	4x7	10
50	2.2	5x7	16
50	3.3	5x7	20
50	4.7	6.3x7	27
50	10	8x7	44