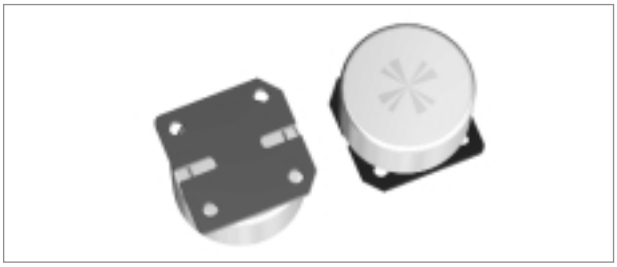
SBP 85 °C SMT

Features

- 85 °C 2000 hours assured
- Vertical chip type miniaturized
- Bipolar capacitors for 5.5 mm high capacitors



Specifications

Item — **Performance Characteristics**

Operating Temperature Range

-40°C to +85 °C

Capacitance Tolerance

±20 % (at 120 Hz, 20 °C)

Leakage Current (at 20 °C,)

I = 0.01 CV or 3 (μA) whichever is greater (After 2 minutes)
Where, C = rated capacitance in μF, V = rated DC working voltage in V.

Dissipation Factor (tan δ at 120 Hz, 20 °C)

Rated Voltage		6.3	10	16	25	35	50
tan δ (max)	4φ	0.35	0.30	0.25	0.25	0.25	0.25
	5~6.3φ	0.30	0.25	0.20	0,15	0.15	0.15

Low Temperature Characteristics (at 120 Hz)

Impedance ratio shall not exceed the values given in the table below

Rated Voltage		6,3	10	16	25	35	50
Impedance ratio	Z(-25 °C)/Z(+20 °C)	3	3	2	2	2	2
	Z(-40 °C)/Z(+20 °C)	8	5	4	3	3	3

Load Life Test (with the polarity inverted every 250 hours)

Test Time	2000 hrs
Capacitance Change	Within ± 20 % of initial value
Dissipation Factor	Less than 200 % of specified value
Leakage Current	Within specified value

* The above specifications shall be sutisfied when the capacitors are restored to 20 °C. Cafter the reated voltage applied for 2000 hrs at 85 °C

Shelf Life Test

Test Time	1000 hrs
Capacitance Change	Within ± 20 % of initial value
Dissipation Factor	Less than 150 % of specified value
Leakage Current	Within specified value

*The above specifications shall be suitable when the capacitors are restored to 20 °C Cafter exposing them for 1000 hrs at 85 °C without voltage applied.

Ripple Current & Frequency Multipliers

Freq. (Hz) / V.DC (V)	50	120	1K	10K up
Under 16	0.8	1.0	1.15	1.25
25~35	0.8	1.0	1.25	1.40
50	0.8	1.0	1.35	1.50

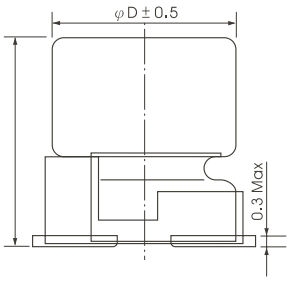
Ripple Current & Frequency Multipliers

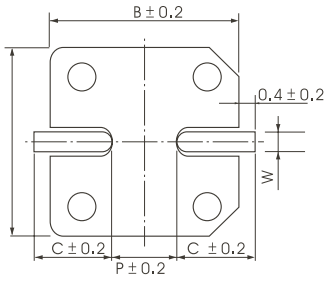
Temperature (° C)	Under 170	85
Multiplier	1.35	1.0

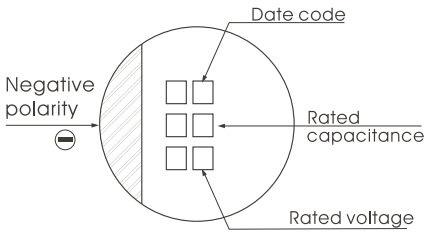
Standards

Satisfies Characteristic W of JIS C 5141

Diagram of Dimensions







φD	L	A	B	C	W	P
4	5.3 ± 0.2	4.3	4.3	2.0	0.5 to 0.8	1.0
5.3	5.3 ± 0.2	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.3 ± 0.2	6.6	6.6	2.7	0.5 to 0.8	2.0

Unit: mm

Dimension & Permissible Ripple Current

Dimension: φD x L (mm)

Ripple Current: A /rms at 120 Hz, 85 °C

V.DC / Contents / μF	6.3 V		10 V		16 V		25 V		35 V		50 V	
	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA
0.1											4x5.3	2.3
0.22											4x5.3	3.3
0.33											4x5.3	4.1
0.47											4x5.3	4.9
1											4x5.3	7.2
2.2									4x5.3	10	5x5.3	14
3.3					4x5.3	14	4x5.3	13	5x5.3	17	5x5.3	17
4.7			4x5.3	18	5x5.3	26	5x5.3	20	5x5.3	21	6.3x5.3	24
10			6.3x5.3	40	6.3x5.3	45	6.3x5.3	35	6.3x5.3	35		
22	5x5.3	27	6.3x5.3	50	6.3x5.3	55						
33	6.3x5.3	45										
47	6.3x5.3	54										