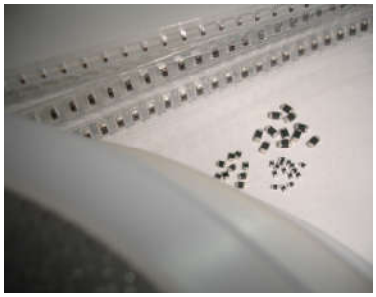
FEATURE



- Leadless 1005\1608\2012.
- Low heat capacitor，fast response.
- Wide operating temperature：-40℃to +125℃
- Low resistance and high B-value available
- Superior heat resistance to soldering and excellent solderability.

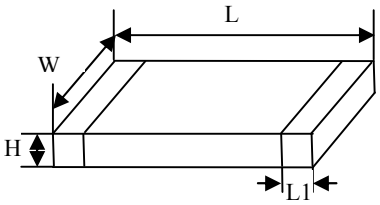
OTHER DATE

- Body：ZnO.
- End termination：Ag/Ni/Sn.
- Packaging：Tape.
- Complies with Standard：IEC61000-4-2.IEC61000-4-5.

PRODUCTION DIMENSION

Type	L（mm）	W（mm）	H（mm）	L1（mm）
1005	1.00±0.20	0.50±0.20	0.50±0.20	0.30±0.20
1608	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20
2012	2.00±0.20	1.20±0.20	0.80±0.20	0.40±0.20

Metric	EIA
1005	0402
1608	0603
2012	0805



PART NUMBER CODE

SBN 1005 – 103 J 3400 N T

① ② ③ ④ ⑤ ⑥ ⑦

① Production series：SEMBO NTC thermistor；
② Type ：1005/1608/2012；
③ R_{25}：$10\times10^{3}K\Omega$；
④ R_{25} voltage tolerance：F：±1%　G：±2%　H：±3%　J：±5%　K：±10%;
⑤ B value：　3400；
⑥ End termination：S：Ag/Pd　N：Ag/Ni/Sn；
⑦ Package：T:taping　B：bulk；

PACKAGING QUANTITY

TYPE	1005	1608	2012
QUANTITY	10000	4000	4000

ELECTRICAL CHARACTERISTICS

Part number	R25(KΩ)	B value
SBN1005-331J2700NT	0.33	2700
SBN1005-471J2800NT	0.47	2800
SBN1005-102J3000NT	1.0	3000
SBN1005-332J3100NT	3.3	3100
SBN1005-472J3200NT	4.7	3200
SBN1005-103J3400NT	10	3400
SBN1005-223J3600NT	22	3600
SBN1005-333J3700NT	33	3700
SBN1005-473J3800NT	47	3800
SBN1005-104J4000NT	100	4000
SBN1608-331J2800NT	0.33	2800
SBN1608-471J2900NT	0.47	2900
SBN1608-102J3100NT	1.0	3100
SBN1608-332J3200NT	3.3	3200
SBN1608-472J3300NT	4.7	3300
SBN1608-103J3435NT	10	3435
SBN1608-103J3500NT	10	3500
SBN1608-223J3700NT	22	3700
SBN1608-333J3800NT	33	3800
SBN1608-473J3900NT	47	3900
SBN1608-683J4000NT	68	4000
SBN1608-104J4000NT	100	4000
SBN2012-331J2900NT	0.33	2900
SBN2012-471J3000NT	0.47	3000
SBN2012-102J3200NT	1.0	3200

Part number	R25(KΩ)	B value
SBN2012-332J3300NT	3.3	3300
SBN2012-472J3500NT	4.7	3500
SBN2012-103J3500NT	10	3500
SBN2012-103J3600NT	10	3600
SBN2012-153J3700NT	15	3700
SBN2012-223J3800NT	22	3800
SBN2012-333J3900NT	33	3900
SBN2012-473J4000NT	47	4000
SBN2012-683J4100NT	68	4100
SBN2012-104J4100NT	100	4100
SBN2012-104J4200NT	100	4200

Notes：

1. Typical leakage at 25℃＜50μA，maximum leakage 100μA.
2. In order to satisfy the application of customer in various fields，the capacitance range can be designed during manufacturing according to the request，please contact our sales department if needed.

ENVIROMENTAL RELIABILIRY TEST

<table>
<tr><td>Characteristic</td><td colspan="4">Test method and description</td></tr>
<tr><td>High Temperature Storage</td><td colspan="4">The specimen shall be subjected to 125℃ for 1000 hours in a thermostatic bath without load and then stored at room temperature and humidity for 1 to 2 hours. The change of varistor voltage shall be within 10%.</td></tr>
<tr><td rowspan="5">Temperature Cycle</td><td colspan="2" rowspan="5">The temperature cycle of specified temperature shall be repeated five times and then stored at room temperature and humidity for one two hours. The change of varistor voltage shall be within 10%and mechanical damage shall be examined.</td><td>Step</td><td>Temperature</td><td>Period</td></tr>
<tr><td>1</td><td>-40±3℃</td><td>30min±3</td></tr>
<tr><td>2</td><td>Room Temperature</td><td>1~2hours</td></tr>
<tr><td>3</td><td>125±2℃</td><td>30min±3</td></tr>
<tr><td>4</td><td>Room Temperature</td><td>1~2hours</td></tr>
<tr><td>High Temperature Load</td><td colspan="4">After being continuously applied the maximum allowable voltage at 85℃ for 1000hours, the specimen shall be stored at room temperature and humidity for one or hours, the change of varistor voltage shall be within 10%.</td></tr>
<tr><td>Damp Heat Load/ Humidity Load</td><td colspan="4">The specimen should be subjected to 40℃,90 to 95%RH environment, and the maximum allowable voltage applied for 1000 hours, then stored at room temperature and humidity for one or two hours. The change of varistor voltage shall be within 10%.</td></tr>
<tr><td>Low Temperature Storage</td><td colspan="4">The specimen should be subjected to -40℃, without load for 1000 hours and then stored at room temperature for one two hours. The change of varistor voltage shall be within 10%.</td></tr>
</table>