

CUSTOMER _____

CUSTOMER' S P/N _____

DESCRIPTION SMD Inductor

SGTE PART NO. CB160808-601P

SAMPLE NO. S15031702 REVISION NO. A1 DATE 2015/3/17

SPECIFICATION FOR APPROVAL

FULLY APPROVED	REVISE APPROVED

SGTE 感通科技

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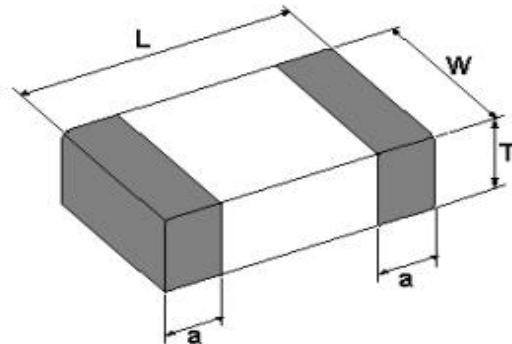
<http://www.szgte.com>

SPECIFICATION

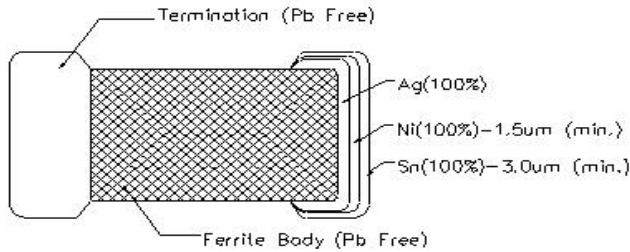
**RoHS
COMPLIANT**

Customers Part Number	Item Name	Date	
	SMD Inductor	2015/3/17	
Gan Tong Part NO.	Sample NO.	Revision No.	A1
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MECHANICAL & DIMENSIONS



(UNIT: mm)	
L	1.60 ± 0.2
W	0.80 ± 0.2
T	0.80 ± 0.2
a	0.30 ± 0.2



ELECTRICAL REQUIREMENTS:

Part Number	Inductance (Z)	Test Frequency	DCR	Rated Current
CB1608-601	600Ω±25%	100 MHz	0.20Ω max	100mA

TEST INSTRUMENTS

■LCR Agilent4287A ■CH16502 ■RF-Q HM9481 ■Chroma /11300+3302

- I rms: Current that causes a 40°C temperature rise from 25°C ambient.
- All test Data is referenced to 25°C ambient.
- Operating Temperature Range: -25°C to +125°C.

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SOLDING CONDITIONS

Figure 1. Re-flow Soldering

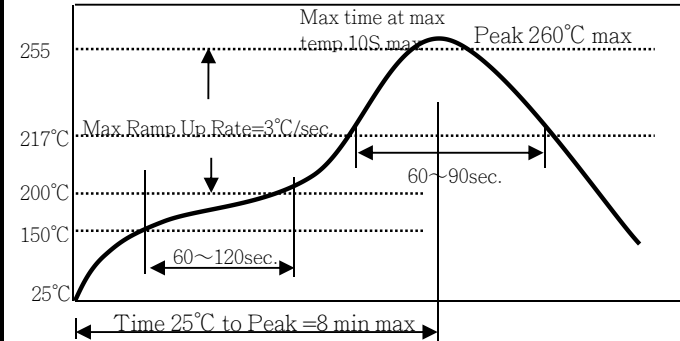
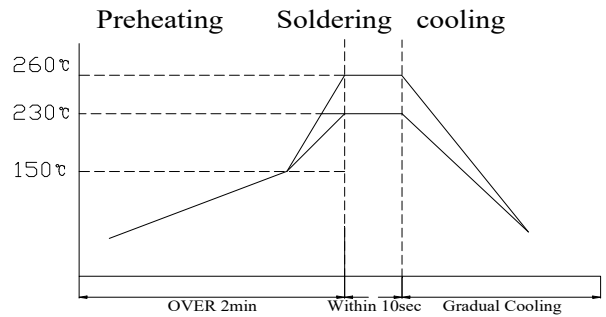


Figure 2. Wave Soldering



Soldering Iron: temperature 350°C±10°C , dwell time shall be less than 3 sec.

Reliability and Testing Conditions

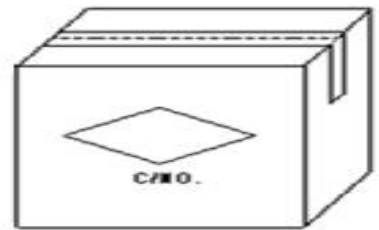
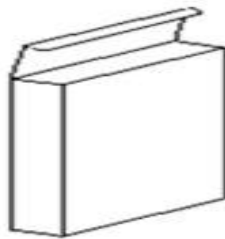
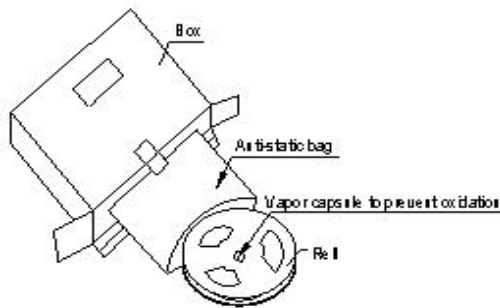
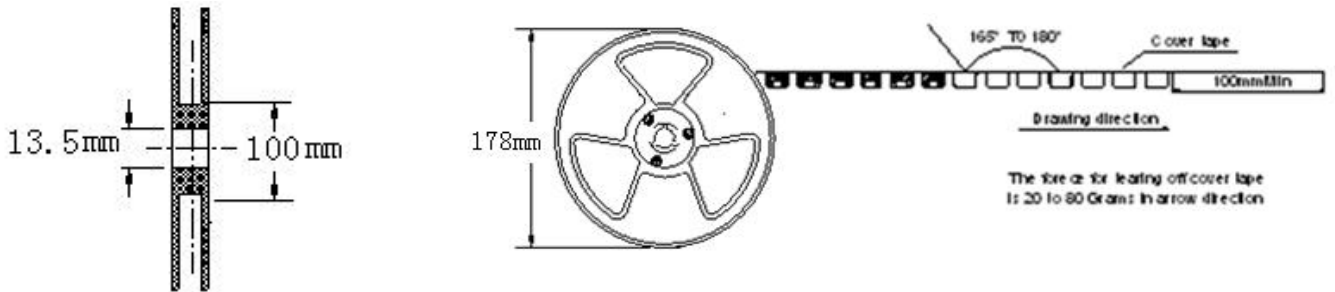
Item	Specification	Conditions															
Solderbility	More than 90% of the terminal electrode should be covered with solder.																
Solder Heat Resistance	Inductance within ±20% of initial value and appearance shall not break.																
Heat resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in 145±5°C and 2 hour drying under normal condition.															
Cold resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in -40±2°C and 2 hour drying under normal condition.															
Thermal shock	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 10 cycles of following condition. <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Times (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40±2</td> <td>30</td> </tr> <tr> <td>2</td> <td>Room Temperature</td> <td>Within 3</td> </tr> <tr> <td>3</td> <td>145±5</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room Temperature</td> <td>Within 3</td> </tr> </tbody> </table>	Step	Temperature (°C)	Times (min.)	1	-40±2	30	2	Room Temperature	Within 3	3	145±5	30	4	Room Temperature	Within 3
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1	-40±2	30															
2	Room Temperature	Within 3															
3	145±5	30															
4	Room Temperature	Within 3															
Humidity Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in 40±2°C and 90 to 95% humidity , and 2 hour drying under normal condition.															
* Vibration Test	Inductance within ±20% of initial value and appearance shall not break.	After vibration for 1hour, In each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.															

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PACKAGING



Packaging Quantity

Unit: mm					
Inner Carton		Outer Carton			
Reel size	Quantity/Reel	Inside the box size	Quantity	Carton size	Quantity
∅ 178	4000pcs	185*185*95	20000pcs	190*190*390	80000pcs

Storage

1. Temperature and humidity conditions: Less than 40°C and 70% RH.
2. Recommended products should be used within 6 months from the time of delivery.
3. The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.