CUSTOMER _____

CUSTOMER'S P/N _____

DESCRIPTION SMD Ferrite beads

SGTE PART NO. CB3216-600/6A

SAMPLE NO. S18041605 REVISION NO. A1 DATE 2020/5/29

SPECIFICATION FOR APPROVAL

FULLY APPROVED	REVISE APPROVED

SGTE 感通科技

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SPECIFICATION

RoHS COMPLIANT

Customers Part Number	Item Name	Date	
	SMD Ferrite beads	2020/5/29	
Gan Tong Part NO.	Sample NO.	Revision No.	A1
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Version	Change history	Before the change	After the change	Release date
A1	NEW	—	—	2020/5/29

DRAWN BY	CHECKED BY	APPROVED BY
文奥丽	刘俊良	连大军

SPECIFICATION

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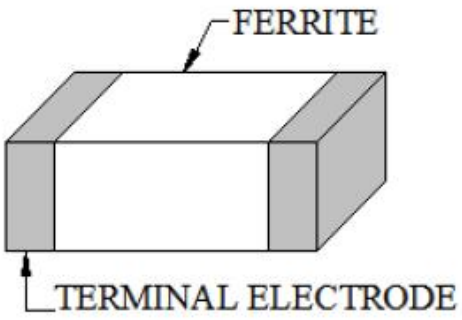
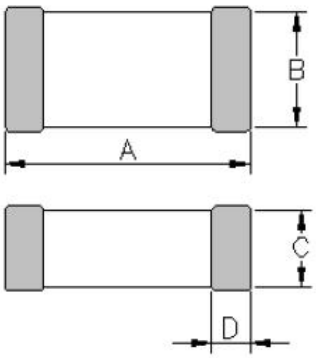
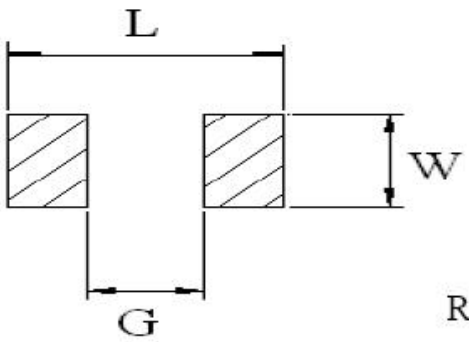
MECHANICAL & DIMENSIONS







RECOMMENDER P.C.B LAYOUT

(UNIT: mm)	
A	3.2±0.2
B	1.6±0.2
C	0.85±0.15
D	0.5±0.3
L	4.4
W	1.4
G	2.2

ELECTRICAL REQUIREMENTS:

Part Number	Inductance (Z)	Test Frequency	DCR	Rated Current
CB3216-600/6A	60Ω±25%	100 MHz	0.02Ω max	6A

TEST INSTRUMENTS

■LCR Agilent4287A ■HP4338A ■HP 4291A ■Chroma /11300+3302

・All test Data is referenced to 25℃ ambient.
・ Operating Temperature Range: -25℃ to +125℃.

SPECIFICATION

RoHS COMPLIANT

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Electrical Characteristic :

PARAMETER	Z	DCR			
UNIT	Ω	Ω			
SPECIFICATION	60Ω±25%	0.02Ω max			
CONDITION	100 MHz				
1	60.00	0.010			
2	58.00	0.008			
3	60.00	0.009			
4	61.00	0.010			
5	60.00	0.011			
6					
7					
8					
9					
10					
MEAN	59.80	0.01			
R	3.00	0.00			

External Dimensions:

NO	A	B	C	D				
	3.2±0.2	1.6±0.2	0.85±0.15	0.5±0.3				
1	3.21	1.59	0.91	0.520				
2	3.22	1.6	0.95	0.480				
3	3.23	1.61	0.90	0.510				
4	3.18	1.63	0.93	0.490				
5	3.25	1.62	0.93	0.500				
6								
7								
8								
9								
10								
MEAN	3.22	1.61	0.92	0.50				
R	0.07	0.04	0.05	0.04				

Electrical specifications at 25±5℃. Humidity 60±10%

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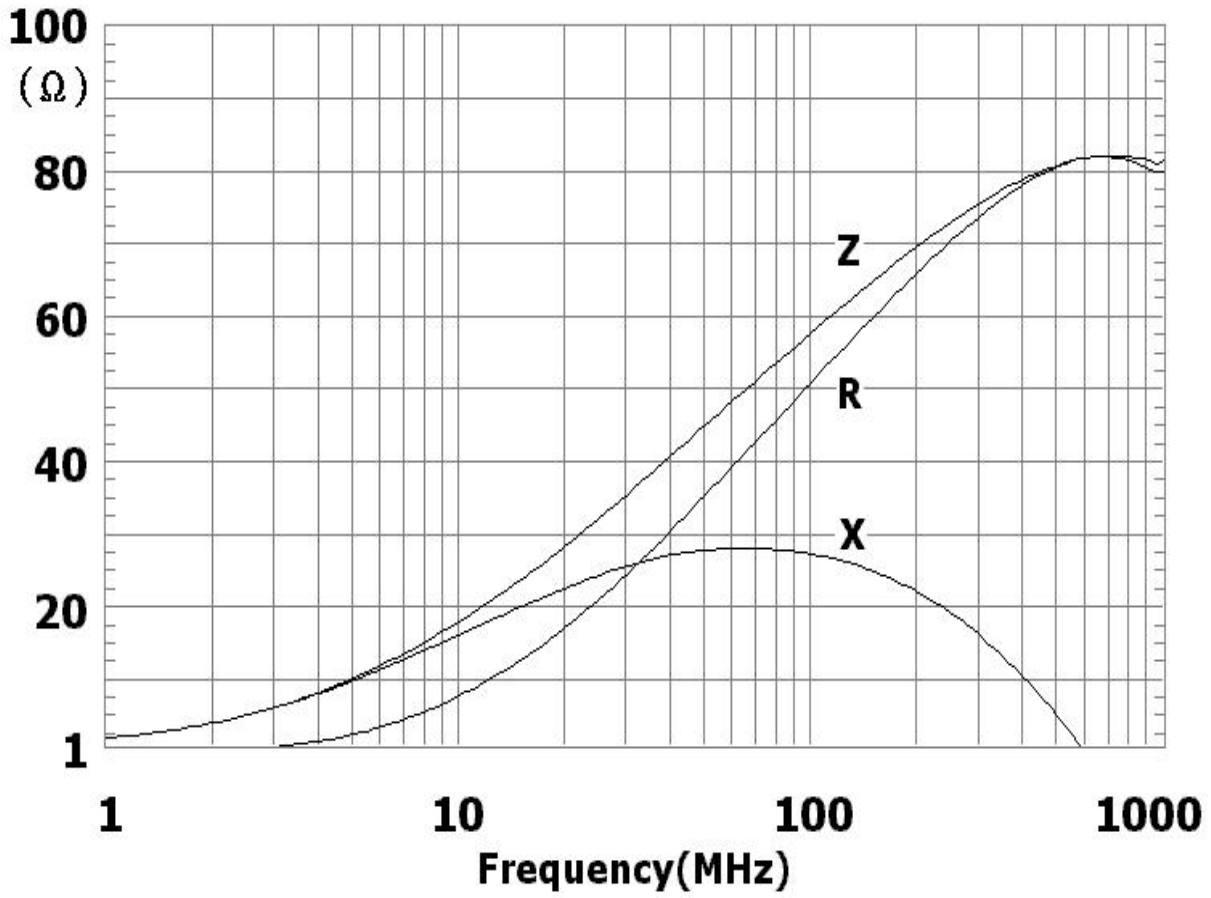

SPECIFICATION

RoHS COMPLIANT

Customers Part Number	Item Name	Date	
	SMD Ferrite beads	2020/5/29	
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SOLDRING CONDITIONS

Figure 1. Re-flow Soldering

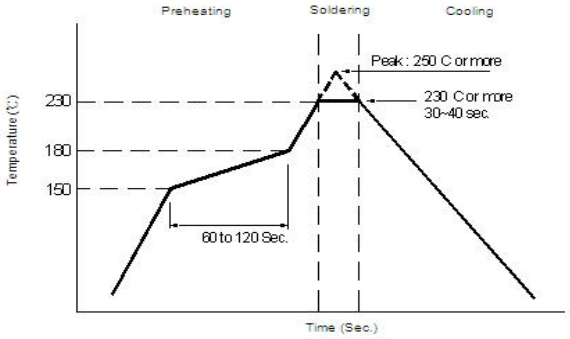
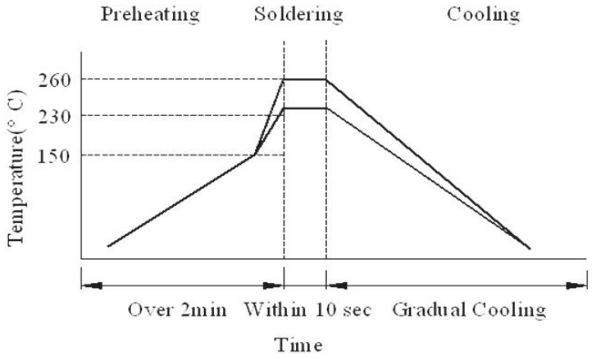
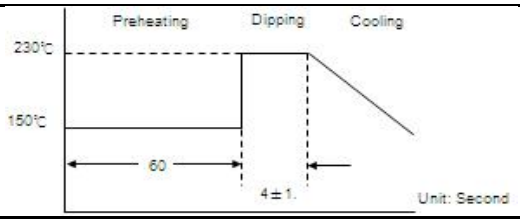
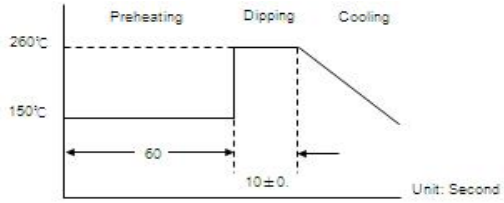


Figure 2. Wave Soldering



Soldering Iron: temperature 350℃±10℃ , 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℃ 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℃ 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.
Humidity Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in 40±2℃ 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.

Step	Temperature (℃)	Times (min.)
1	-40±2	30
2	Room Temperature	Within 3
3	145±5	30
4	Room Temperature	Within 3

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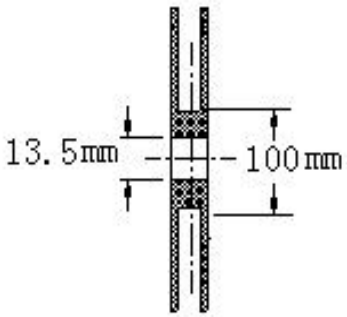
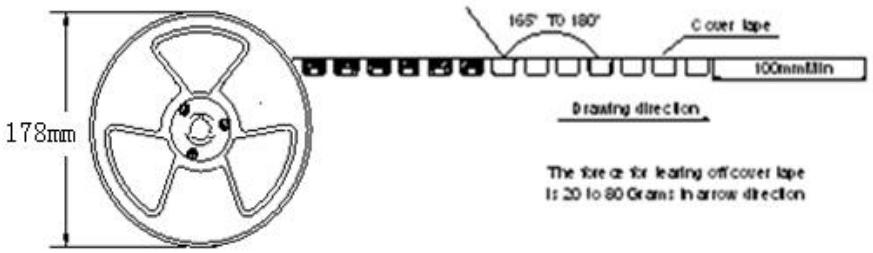
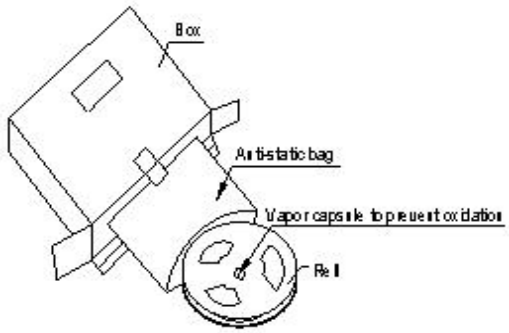
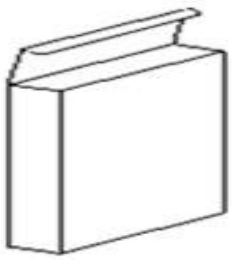
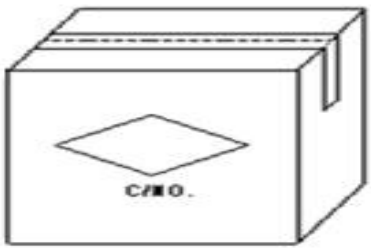
PACKAGING











Packaging Quantity

Unit: mm

Inner Carton		Quter Carton			
Reel size	Quantity/Reel	Inside the box size	Quantity	Carton size	Quantity
¢178	4000pcs	185*185*95	4000pcs	190*190*390	24000pcs

Storage

1. Temperature and humidity conditions: Less than 40℃ and 70% RH.
2. Recommended products should be used within 6 months form 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.