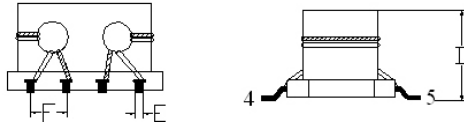
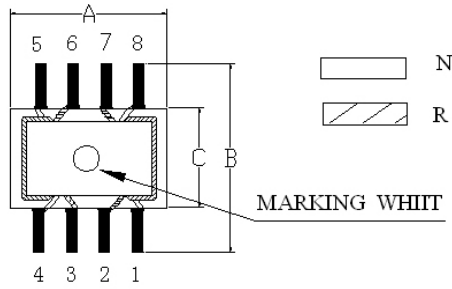


ITEM : ; SB0503TL-015-WHT

Lead-Free & RoHs Compliant!!!

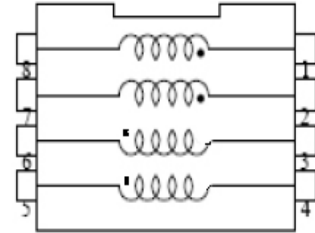
EXTERNAL DIMENSIONS UNIT: mm



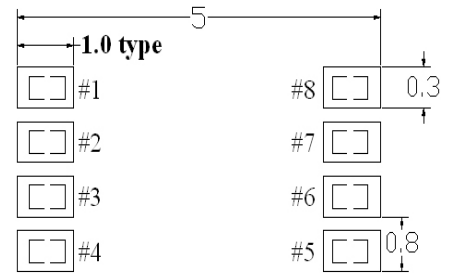
WINDING: 1WG2PP155-0.10-N/R * 1.5TS

A	B	C	D	E
3.5±0.35	5.0±0.3	2.5±0.3	2.285Max	0.3 0.8

ELECTRICAL SCHEMATIC



PAD LAYOUT



ELECTRICAL CHARACTERISTICS

Part No.	Z (Ω)Min.	Test Freq (MHz)	Rated Current (A)Max.	DC Resistance (Ω)Max
SB0503TL-015-WHT	90	300	0.5	0.1

NOTE:

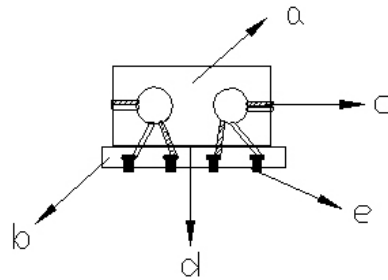
- ※ Agilent HP-4291A Impedance Analyzer or EQU
- ※ Electrical specifications at 25 °C

ITEM: ; SB0503TL-015-WHT

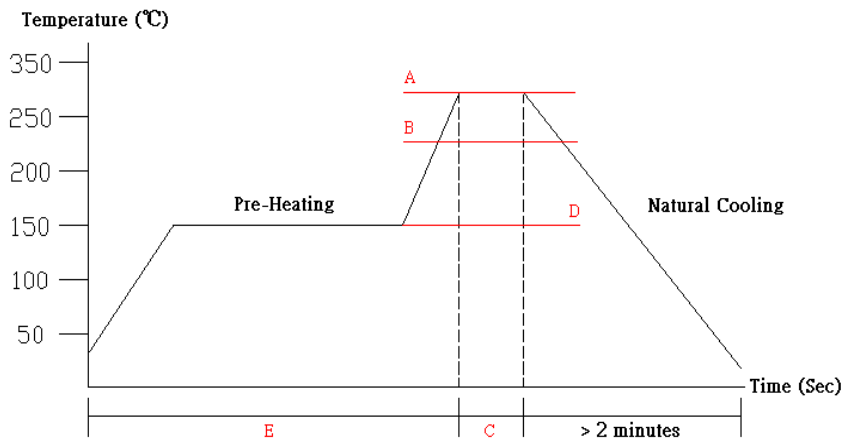
Lead-Free & RoHS Compliant!!

Material List

- a. Core : Ferrite RID core
- b. Base : Phenolic
- c. Wire : Enamelled copper wire (class F)
- d. Adhesive : Epoxy resin
- e. Terminal : Sn / Ag / Cu (lead content 100ppm max.)



Recommended Soldering Temperature Graph



Testing Point :
 Welding joint ·
 Component surface

A	260°C
B	230°C
C	10 Sec
D	150°C
E	60~240 Sec

ITEM: GSB0503TL-015-WHT

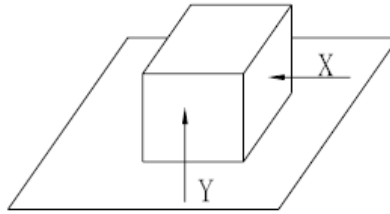
Lead-Free & RoHs Compliant!!!

GENERAL CHARACTERISTICS

1. OPERATING TEMPERATURE : -10 ~ +80°C (COIL CONTAIN HEAT)

2. EXTERNAL APPEARANCE : ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.

3. TERMINAL STRENGTH : AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN THREE DIRECTIONS OF X, Y WITHSTANDING 4.9N (0.5kgf) FOR 10±2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)



4. HEAT ENDURANCE TEST : REFER TO CONVENTIONAL SMD INDUCTOR SERIES RELIABILITY TEST

5. DIELECTRIC STRENGTH : NO APPARENT AT 100V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.

6. INSULATION RESISTANCE : OVER 100 MΩ AT 100V D.C. BETWEEN COIL-CORE.

7. INDUCTANCE TEMPERATURE COEFFICIENT : $(0\sim 2000)\times 10^{-8}/^{\circ}\text{C}$ (-25~+80)

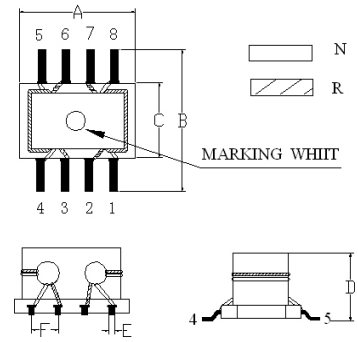
8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ±5.0%
AFTER 96 HOURS IN 90~95% RELATIVE HUMIDITY WITHIN 40±2°C
AND 1 HOUR DRYING UNDER NORMAL CONDITION.

9. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN ±3.0%
AFTER VIBRATION FOR 1 HOUR.
IN EACH OF THE THREE ORIENTATIONS AT SWEEP VIBRATION
(10~55~10Hz) WITH 1.5mm P-P AMPLITUDE.

10. SHOCK TEST : INDUCTANCE DEVIATION WITHIN ±3.0%
AFTER DROP DOWN WITH 981m/s² (100G) SHOCK
ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING
MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

TEST DATA FOR PREPRODUCTION SAMPLES **Lead-Free & RoHs Compliant!!!**

ITEM: GSB0503TL-015-WHT							
MEAS. Item	Z (Ω)Min.	A m/m	B m/m	C m/m	D m/m	E m/m	F m/m
Spec	90	3.5±0.35	5.0±0.3	2.5±0.3	2.285Max	0.3	0.8
Test Freq. (MHz)	300						
1	98	3.51	5.11	2.52	2.275		
2	99	3.52	5.12	2.53	2.280		
3	97	3.51	5.11	2.52	2.281		
4	102	3.50	5.13	2.53	2.278		
5	99	3.50	5.12	2.53	2.279		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
X	99	3.508	5.118	2.526	2.2786		
R	5	0.02	0.02	0.01	0.006		



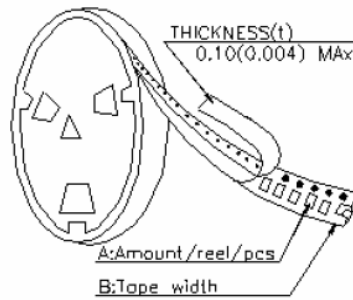
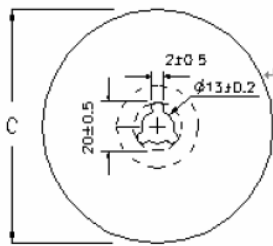
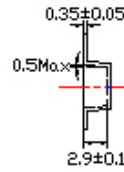
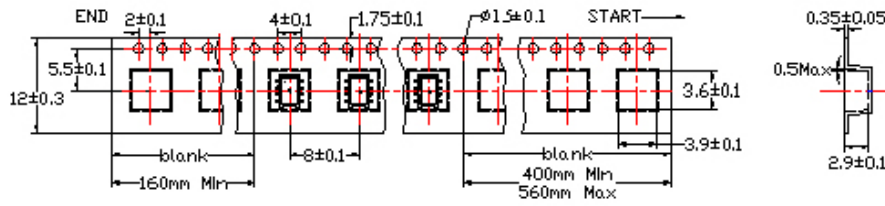
TEST INSTRUMENT:
 Agilent HP-4291A Impedance Analyzer or EQU

ITEM: GSB0503TL-015-WHT

Lead-Free & RoHs Compliant!!!

PACKAGING

DIMENSION FOR CARRIER TAPE & REEL.(UNIT : mm)



QUANTITY	P/N
3000PCS/Reel	Carrier:CT-SB0503-BLACK
3Reels/Middle Carton	Cover: CV-093-BLACK
5 Middle Cartons/Big Carton	Middle Carton: B=B33.5*8.3*33.5窗口式
45000PCS/ Big Carton	Big Carton:A=B43.5*34.5*35.5

ITEM: GSB0503TL-015-WHT

Lead-Free & RoHs Compliant!!!

Curve

GSB0503TL-015-WHT

