

DATE :

# SPECIFICATION FOR THE APPROVAL

COMMODITY : MULTILAYER CHIP ANTENNA  
PART NO. : SWBA2

Written by	Checked by	Submitted by

APPROVAL NO.

DATE :

## APPROVAL NOTICE

COMMODITY :  
OUR CODE NO. :

We have hereby approved and accepted your specification under the following conditions.

Authorized signature

## ► MULTILAYER CHIP ANTENNA (SWBA2 Series)

### ▪ PART NO : SWBA2

This specification covers the multilayer chip antenna SWBA2 used in bluetooth device

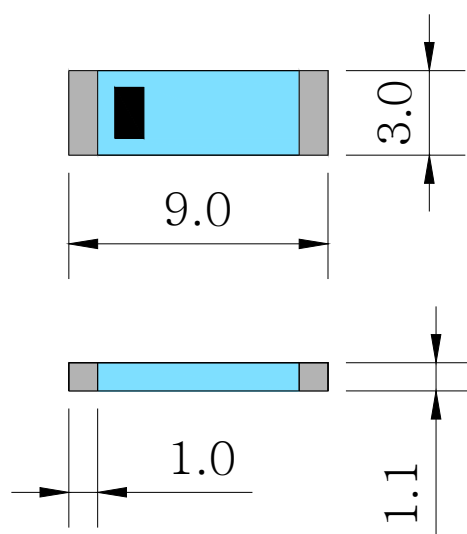
### 1. Introduction

- 1) Chip antenna is a component which should be used with matching circuit composed of L or C.
- 2) When you get a matching process with L or C, center frequency would be getting Down to 2.44 GHz.
- 3) Mount PCB : SMT type

### 2. Specifications

TYPE	SPEC
Frequency Range	2400 ~ 2485 MHz
Band width	100 MHz
Impedance	50Ω
Polarization	Linear
VSWR	2.0 Max
Gain	Max 2 dBi

### 3. Dimensions



Unit : mm

Tolerance :  $\pm 0.2$

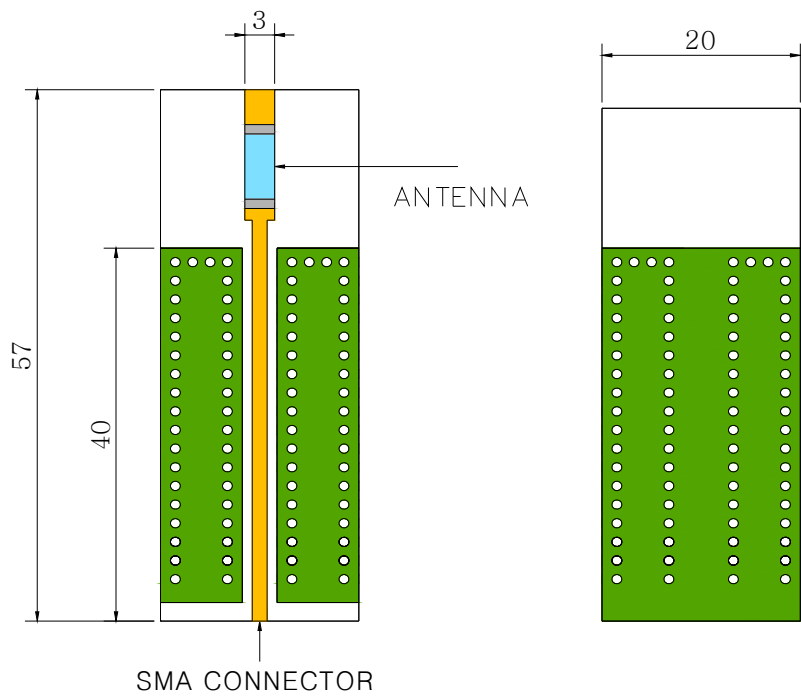
4. Terminal Configuration



(1)	(2)
Feeding Line	Nc

5. Matching process example

1) Test Board



2) Impedance matching value summary

MODEL	Matching component value	
	series	parallel
SWBA2L1	1.5nH	3.3nH
SWBA2L2	2.2nH	2.7nH
SWBA2L3	1.2nH	2.2nH
SWBA2L4	1.5nH	2.2nH

6. Measurement

