

2. Features

- *Stable and reliable in performances
- *Low temperature coefficient of frequency
- *Low profile, compact size
- *RoHS compliance
- *SMT processes compatible

3. Applications

- *Bluetooth earphone systems
- *Hand-held devices when WiFi /Bluetooth functions are needed, e.g., Smart phone.
- *IEEE802.11 b/g/n
- *ZigBee
- *Wireless PCMCIA cards or USB dongle

4. Description

Yingfeng chip antenna series are specially designed for WiFi/Bluetooth applications. Based on yingfeng proprietary design and processes, this chip antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Electrical Specifications (80 x 40 mm² ground plane)

Characteristics		Specifications	Unit
Outline Dimensions		2.0x1.2x0.65	mm
Working	Frequency	2400~2500	MHz
VSWR		2 Max.	
Impedance		50	Ω
Polarization		Linear Polarization	
Gain	Peak	2.5 (typical)	dBi
	Efficiency	75 (typical)	%

5-1. Electrical Table

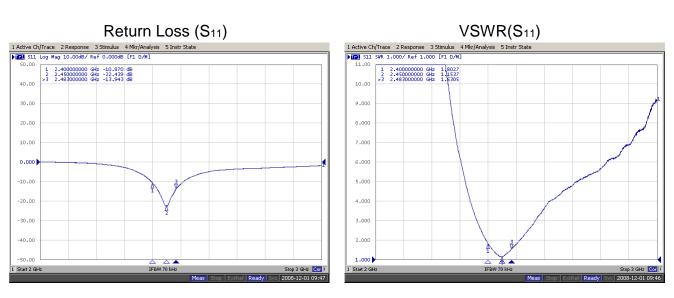


SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO., LTD 412, Building 7, Phase II, Nanshan Yungu Entrepreneurship Park, No. 2 Pingshan 1st Road

Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen

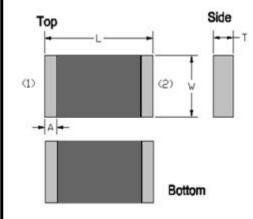
Prepared by : JIEXI	Prepared by : JIEXI Designed by : Jason		y : Jason	Approved by : MR.FANG				
TITLE : 2.0 x 1.2 x 0.65(mm) WiFi/Bluetooth Ceramic Chip		DOCUMEN T	YF2012C1P2G45				REV.	
Antenna (YF2012C1) Engineering Specification		NO.					В	
			PAGE	2		OF	9	

5-2. Return Loss & VSWR



6. Antenna Dimensions & Test Board (unit: mm)

a. Antenna Dimensions



Dimension (mm)					
L 2.05+-0.15					
W	1.20+-0.15				
Т	0.65+-0.10				
A	0.20+-0.10				

No.	Terminal Name
1	Feeding/GNG
2	GND/Feeding

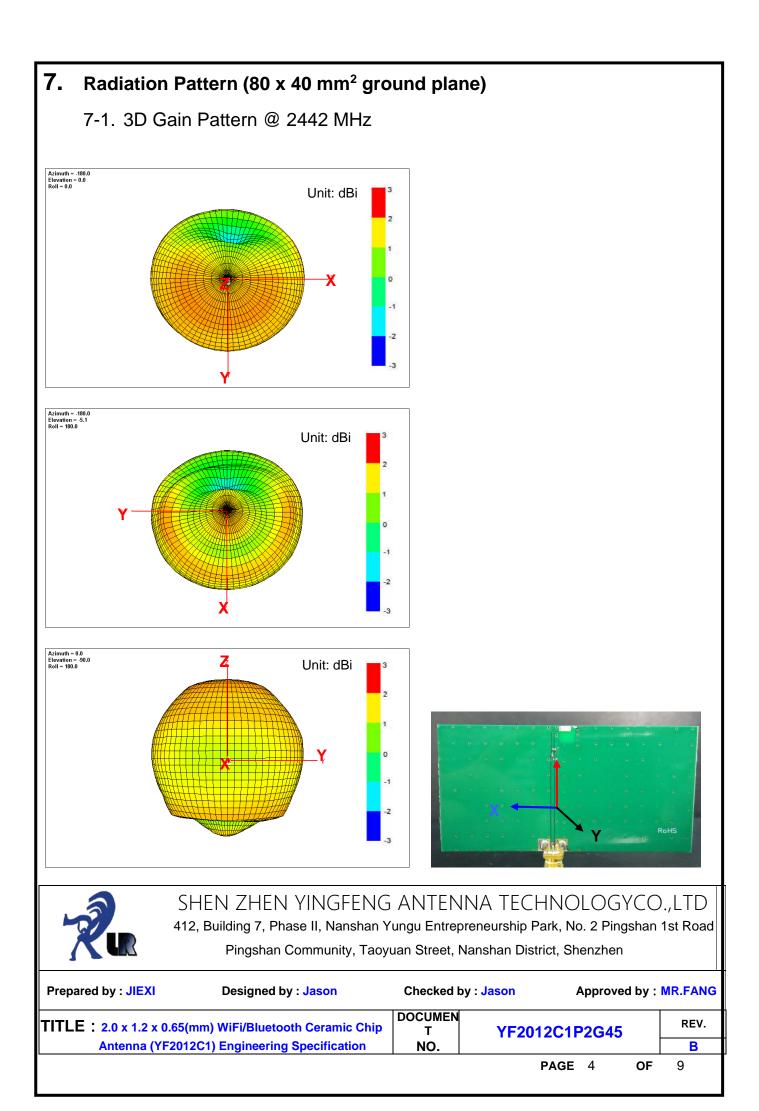
P.S : Top & down and left & right side are symmetrical, No direction



SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO., LTD 412, Building 7, Phase II, Nanshan Yungu Entrepreneurship Park, No. 2 Pingshan 1st Road

Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen

Prepared by : JIEXI	pared by : JIEXI Designed by : Jason		oy : Jason	Approved by : MR.FANG			
TITLE : 2.0 x 1.2 x 0.65(mm) WiFi/Bluetooth Ceramic Chip		DOCUMEN T	YF2012C1P2G45			REV.	
Antenna (YF201	2C1) Engineering Specification	NO.				В	
			PAG	E 3	OF	9	



7-2. 3D Efficiency Table											
Frequency(MHz)	2400	2410	2420	2430	2442	2450	2460	2470	2480	2490	2500
Efficiency (dB)	-1.4	-1.0	-0.9	-0.7	-0.7	-0.8	-0.9	-1.1	-1.2	-1.3	-1.4
Efficiency (%)	72.8	73.7	74.3	74.4	75.5	75.0	74.0	73.6	73.1	72.6	71.5
Gain (dBi)	2.1	2.2	2.3	2.4	2.5	2.5	2.4	1.8	1.7	1.6	1.4

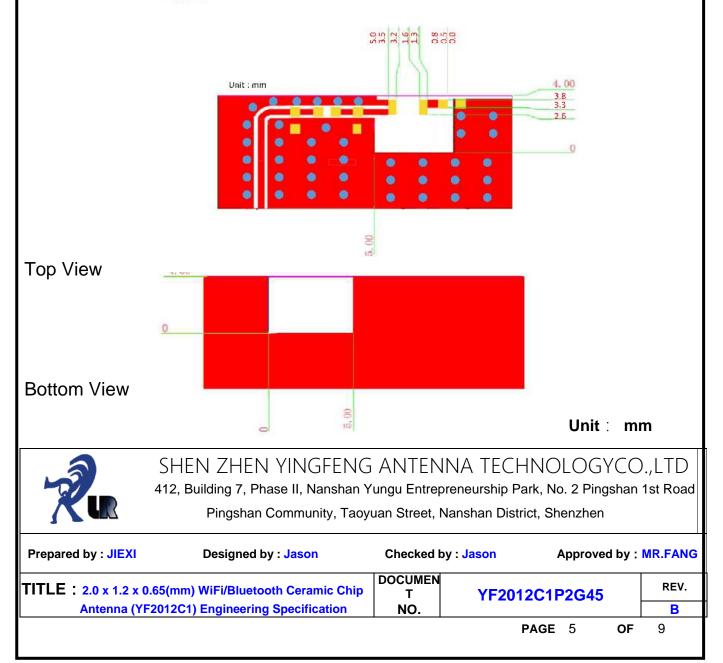
8. Layout Guide

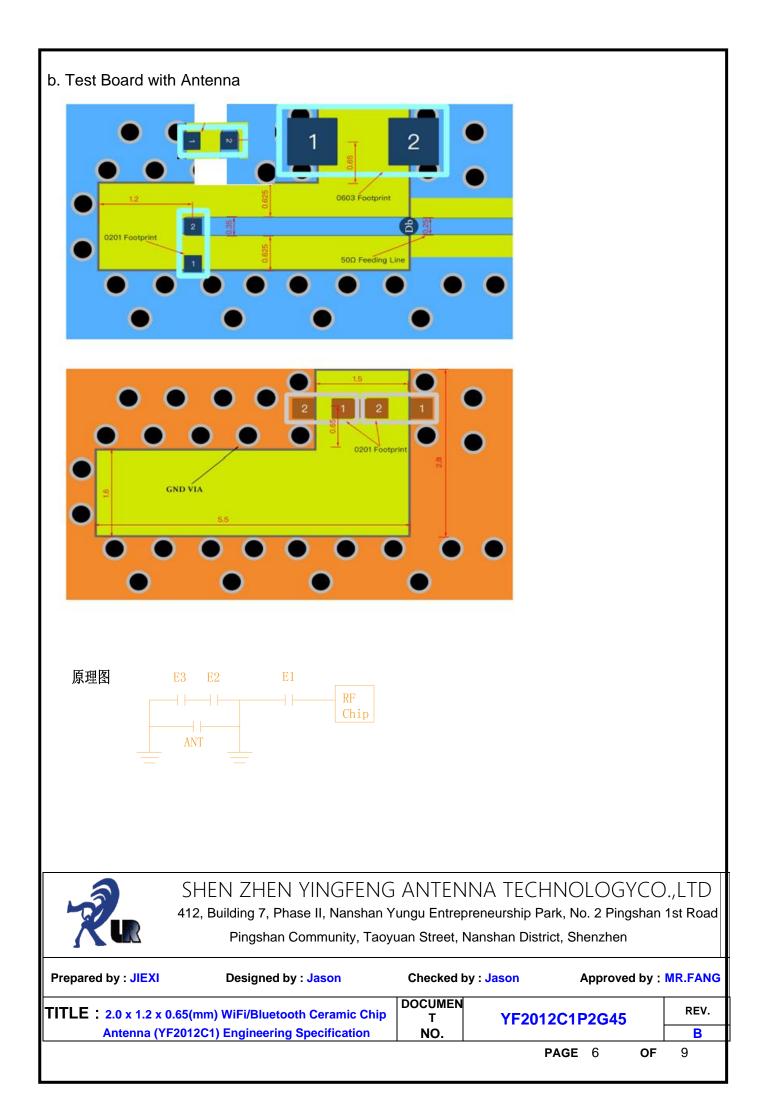
a. Solder Land Pattern:

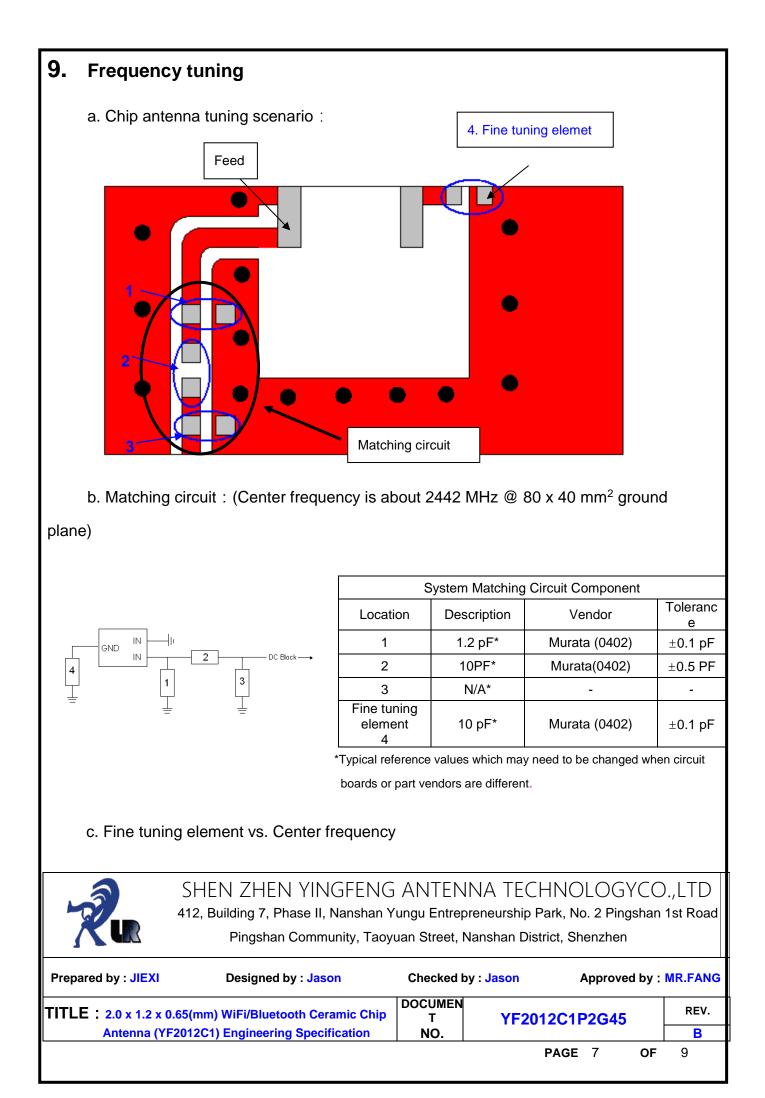
Land pattern for soldering (gray marking areas) is as shown below. Depending on Customer's requirement, matching circuit as shown below is also recommended.

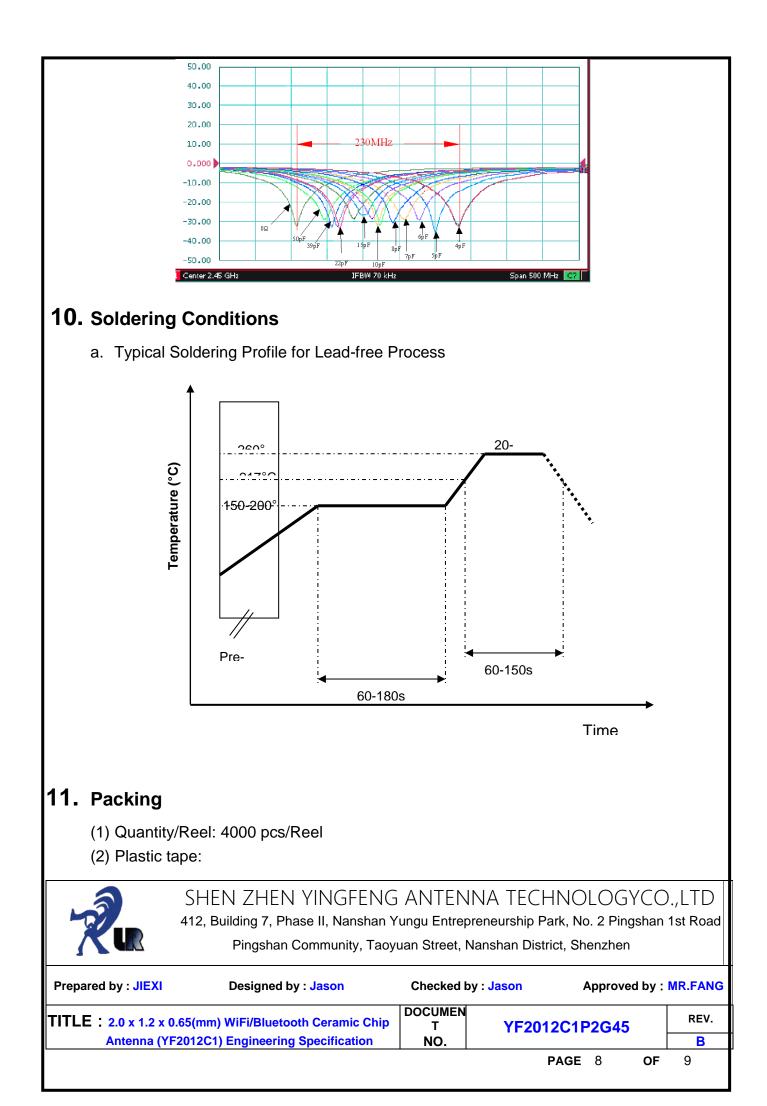
2). PCB Top View :

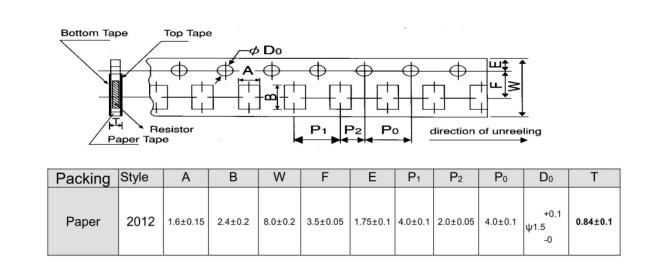
Type1 :



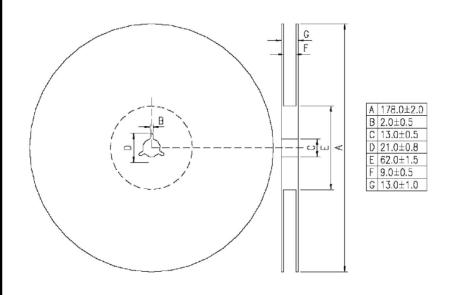








(3) Taping reel dimensions





SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO., LTD 412, Building 7, Phase II, Nanshan Yungu Entrepreneurship Park, No. 2 Pingshan 1st Road

Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen

Prepared by : JIEXI	pared by : JIEXI Designed by : Jason		y : Jason	Approved by : MR.FANG				
TITLE : 2.0 x 1.2 x 0.65(mm) WiFi/Bluetooth Ceramic Chip		DOCUMEN T	YF2012C1P2G45			REV.		
Antenna (YF2012	2C1) Engineering Specification	NO.			_	B		
			PAGE	9	OF	9		