

SPECIFICATIONS

CUSTOMER: \_\_\_\_\_

DESCRIPTION:                      Chip Antenna \_\_\_\_\_

CUSTOMER PART NO: \_\_\_\_\_

OUR MODEL NO:                      PBX2012MA04 \_\_\_\_\_

DATE: \_\_\_\_\_

PLEASE RETURN TO US ONE COPY OF “SPECIFICATION FOR  
APPROVAL” WITH YOUR APPROVED SIGNATURES

examine	Wang hai	audit	Liu fei	make	Liu xiaomei
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APPROVED SIGNATURE			

**PBX2012MA04 Specification**

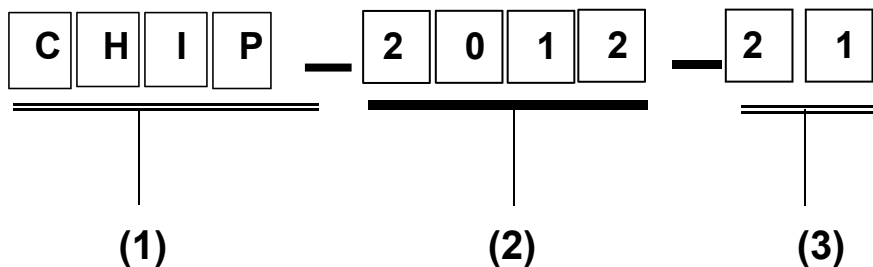
Operating Temp. : -40°C~+85°C

**1. FEATURES:**

- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain

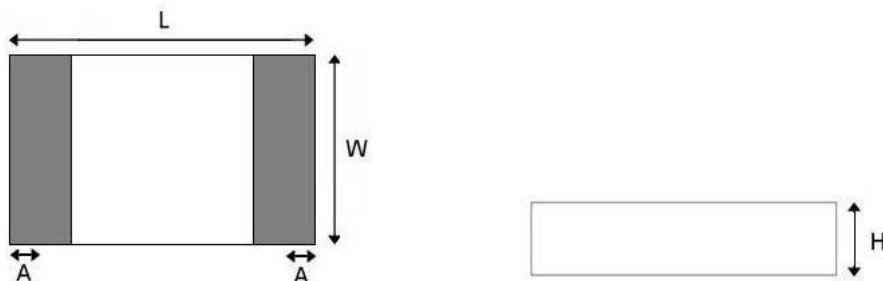
**2. APPLICATIONS:**

- Bluetooth, Wireless LAN, Mobile TV
- Home RF System, etc

**3. PRODUCT IDENTIFICATION**

(1) Product type: Multilayer chip Antenna

(2) External Dimensions (L×W) (mm): 2.0\*1.2

**4. SHAPE AND DIMENSIONS:****SHAPE AND DIMENSIONS**

L	W	H	A
2.0±0.2	1.2±0.2	0.55±0.1	0.4±0.1

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±      X.X=±      X.XX=±  
 ANGLES=±      HOLEDIA=±



**Shenzhen Pengbian Industrial  
Technology Co., LTD**

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

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TITLE: CHIP2450-21 Specification

DOCUMENT  
NO.

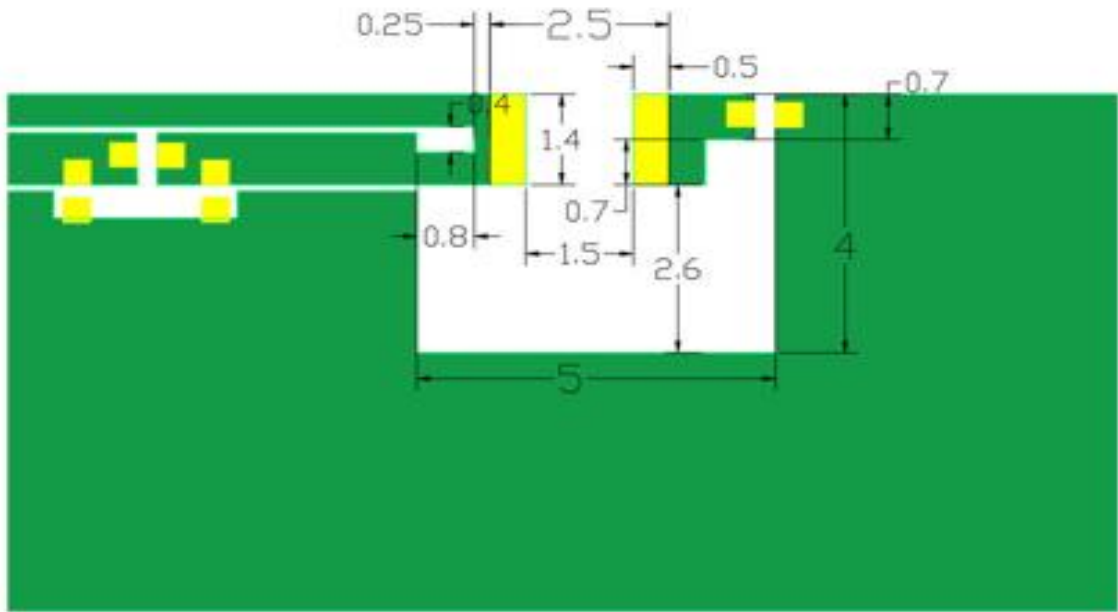
2012

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P1

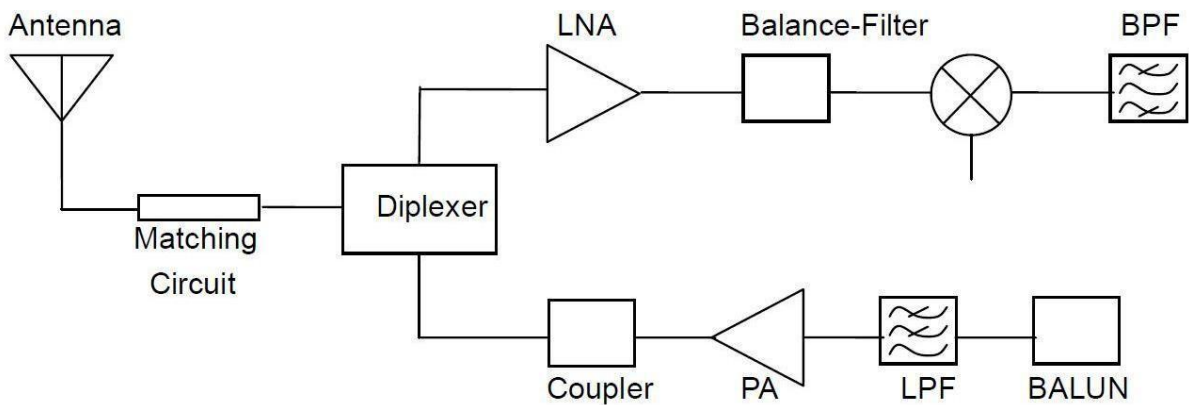
TERMINAL-CONFIGURATION




EVALUATION BOARD



APPLICATION GUIDE



UNLESS OTHER SPECIFIED TOLERANCES ON: X=±      X.X=±      X.XX= ANGLES=±      HOLEDIA=±		 Shenzhen Pengbian Industrial Technology Co., LTD		
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## 5. SPECIFICATIONS:

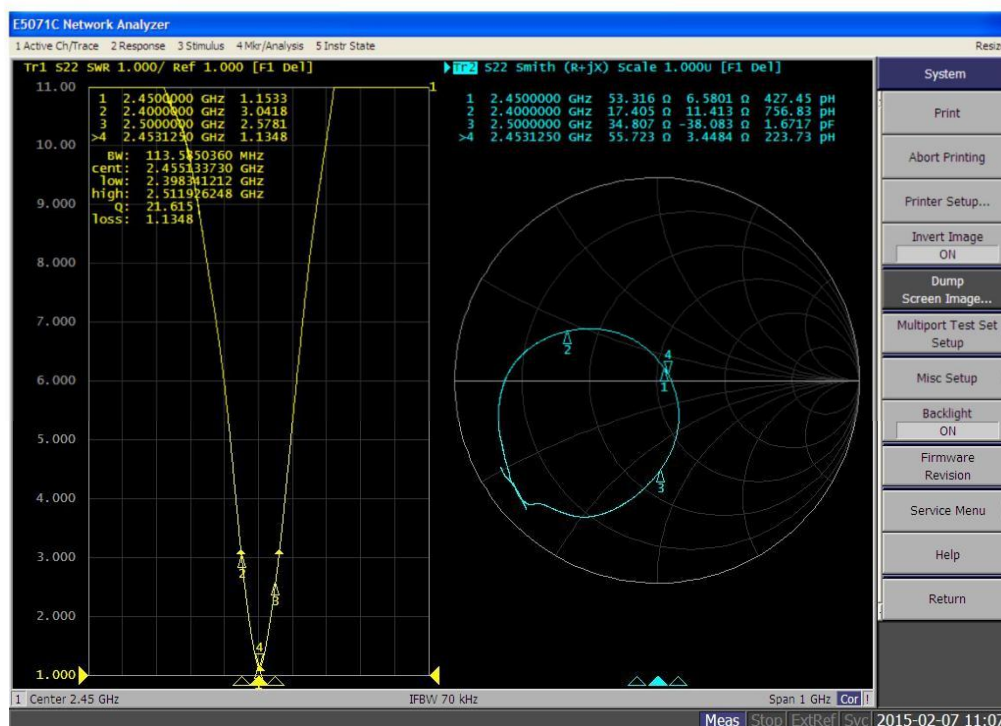
ITEM	SPECIFICATION
Frequency Band	2400MHz~2483MHz
VSWR	Less than 3
Polarization	Linear
*Peak Gain	2.48 dBi Typ.
*Peak Efficiency	72.6% Typ.
Impedance	50 $\Omega$ Typ.

\* Test condition: Test board size 98\*65 mm

Matching circuit: Pi matching circuit will be required

## 6. Electrical Characteristics :

### VSWR



Mark	Frequency	VSWR
1	2400 MHz	3.04
2	2450 MHz	1.15
3	2500 MHz	2.57

UNLESS OTHER SPECIFIED TOLERANCES ON:

$X=\pm$        $X.X=\pm$        $X.XX=$   
 $ANGLES=\pm$        $HOLEDIA=\pm$

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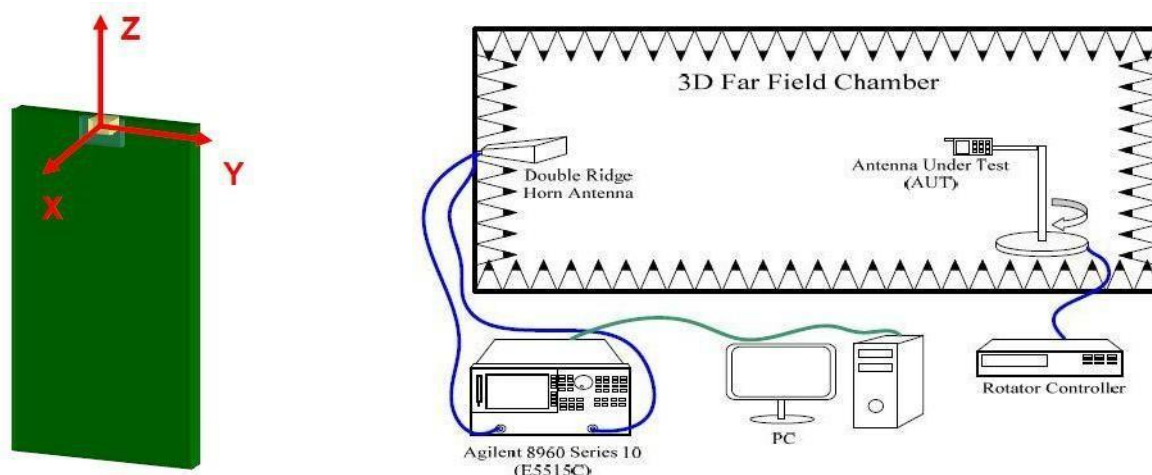
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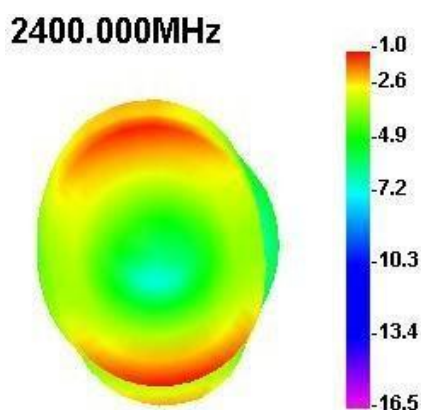
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## Radiation Pattern

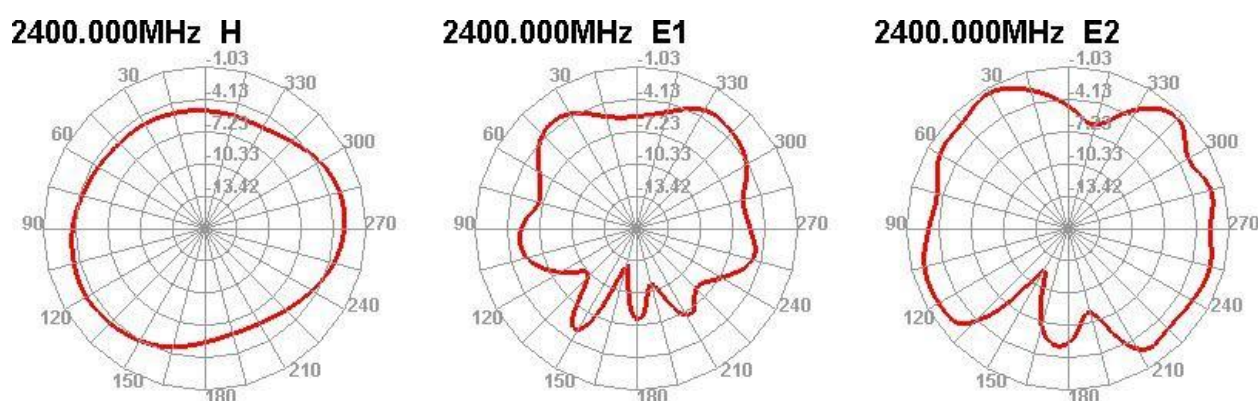
The Gain pattern is measured in INPAQ's FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.



### © 3D Gain Pattern (2400 MHz)



### © 2D Gain Pattern (2400 MHz)



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