

# 产品规格承认书

## SPECIFICATIONS

客户:

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

产品名称:

DESCRIPTION: \_\_\_\_\_ 蓝牙天线

客户型号:

CUSTOMER PART No: \_\_\_\_\_

产品型号:

OUR MODEL NO: \_\_\_\_\_ PBX2012MA01

日期:

DATE: \_\_\_\_\_ 2020/12/22

确认签字, 盖章后请返回承认书一份

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

|    |    |    |    |    |     |
|----|----|----|----|----|-----|
| 核准 | 王海 | 审核 | 刘飞 | 制作 | 刘小美 |
|----|----|----|----|----|-----|

|                             |  |  |  |
|-----------------------------|--|--|--|
| 客户确认签章 (APPROVED SIGNATURE) |  |  |  |
|                             |  |  |  |

Address: 605, Building 4, 1970 Science and Technology Park, Minzhi Community,  
Minzhi Street, Longhua District, Shenzhen, China

**PBX2012MA01 Specification**

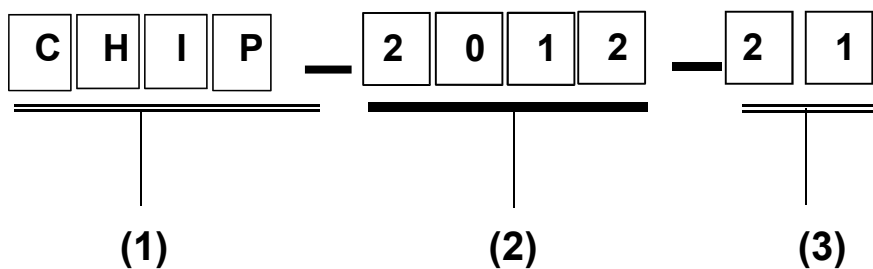
Operating Temp. : -40°C~+85°C

**1. FEATURES:**

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

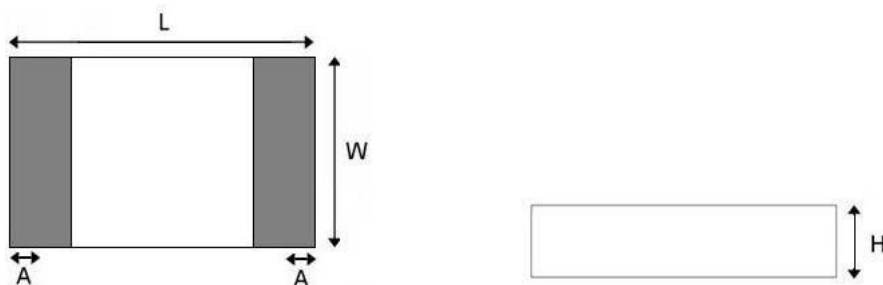
**2. APPLICATIONS:**

- 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=±

**深圳市朋伴兴业科技有限公司**

Shenzhen PengbanXingye Technology Co., Ltd

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD

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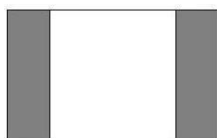
TITLE: CHIP2450-21 Specification

DOCUMENT NO.

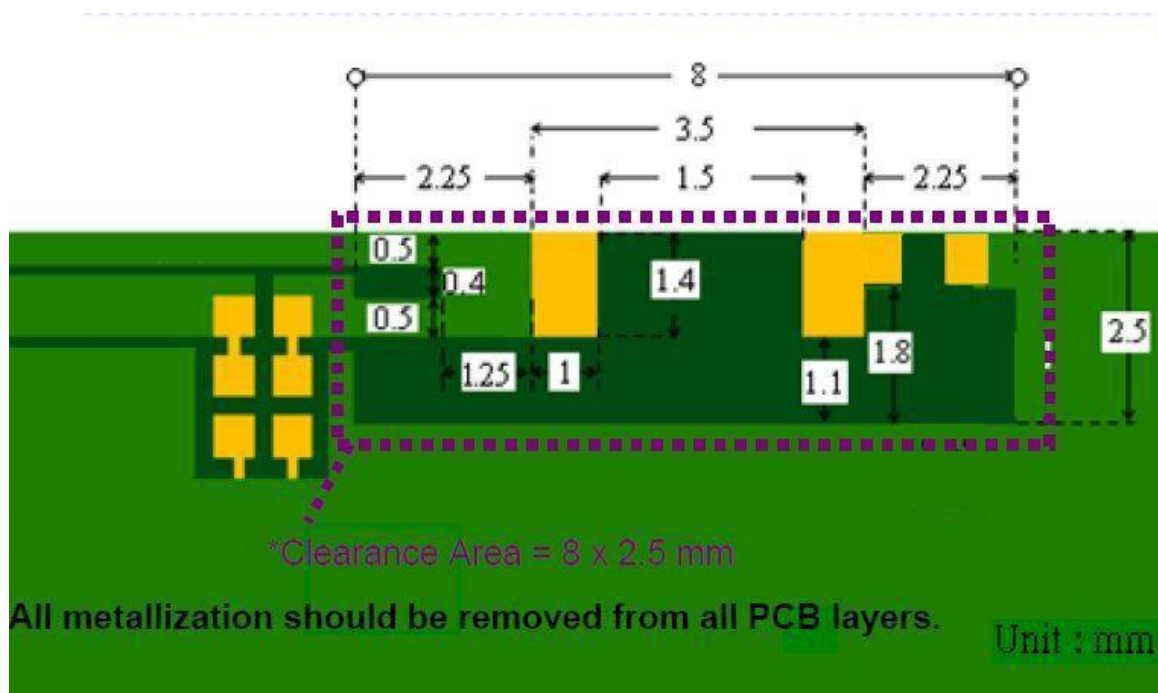
2012

SPEC REV.  
P1

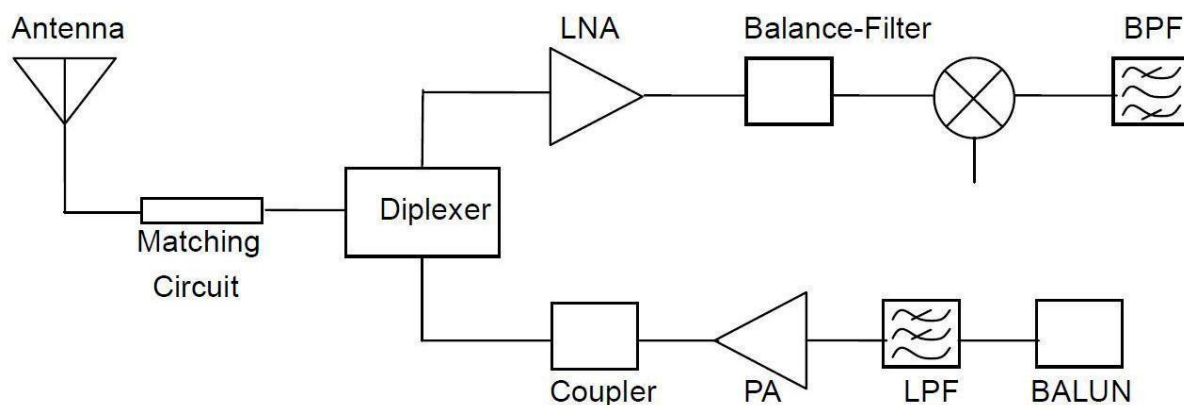
## TERMINAL-CONFIGURATION



## EVALUATION BOARD



## APPLICATION GUIDE



|                                                                                                    |                 |                                                                                                                                                                                                      |                      |
|----------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| UNLESS OTHER SPECIFIED TOLERANCES ON:<br>X=±      X.X=±      X.XX=±<br>ANGLES = ±      HOLEDIA = ± |                 |  <b>深圳市朋伴兴业科技有限公司</b><br>Shenzhen PengbanXingye Technology Co., Ltd                                               |                      |
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| DRAWN BY : Sera                                                                                    | CHECKED BY: XD  |                                                                                                                                                                                                      |                      |
| DESIGNED BY: Sera                                                                                  | APPROVED BY: XD |                                                                                                                                                                                                      |                      |
| TITLE: CHIP2450-21 Specification                                                                   |                 | DOCUMENT NO.                                                                                                                                                                                         | 2012<br>SPEC REV. P1 |

## 5. SPECIFICATIONS:

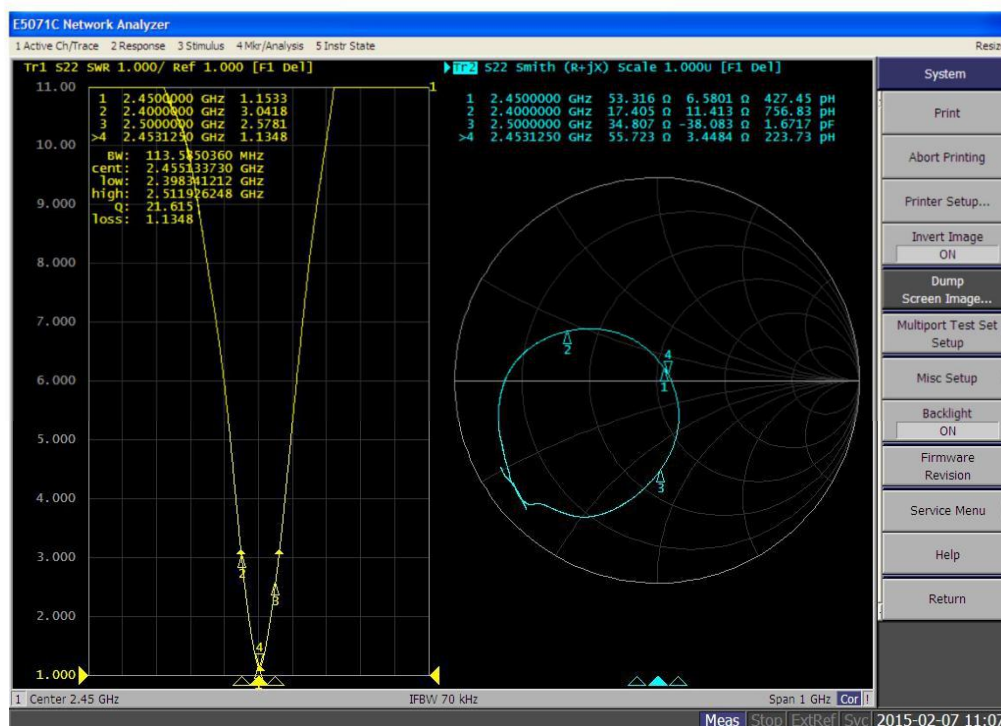
| ITEM             | SPECIFICATION    |
|------------------|------------------|
| Frequency Band   | 2400MHz~2483MHz  |
| VSWR             | Less than 3      |
| Polarization     | Linear           |
| *Peak Gain       | 2.48 dBi Typ.    |
| *Peak Efficiency | 72.6% Typ.       |
| Impedance        |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

SCALE: N/A

UNIT: mm

DRAWN BY : Sera

CHECKED BY: XD

DESIGNED BY: Sera

APPROVED BY: XD



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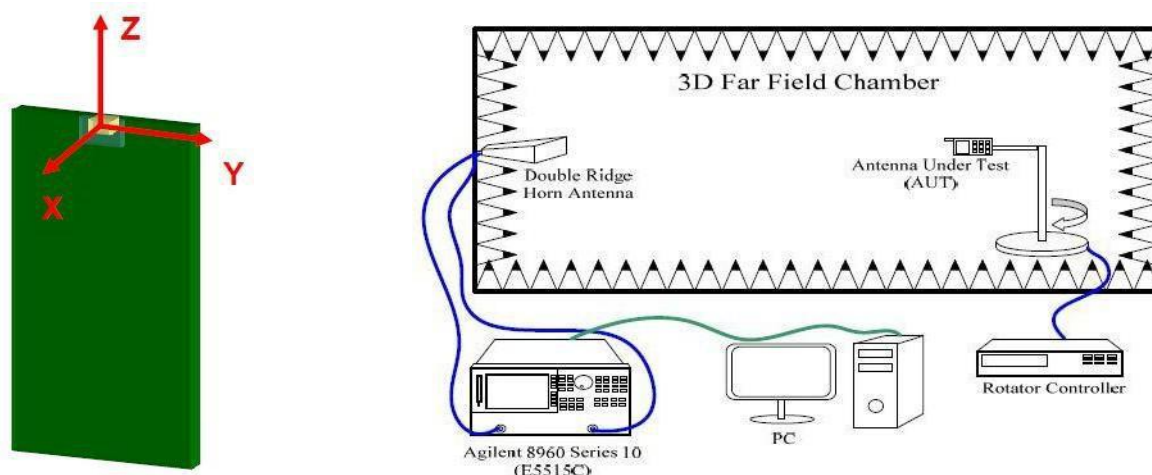
DOCUMENT NO.

2012

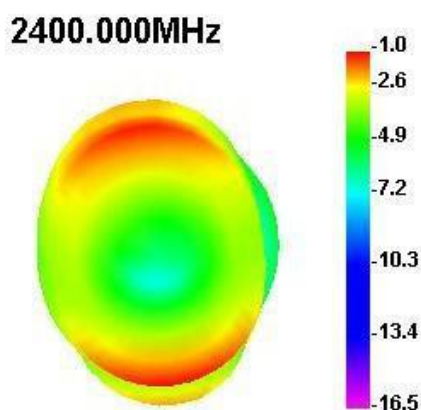
SPEC REV.  
P1

## Radiation Pattern

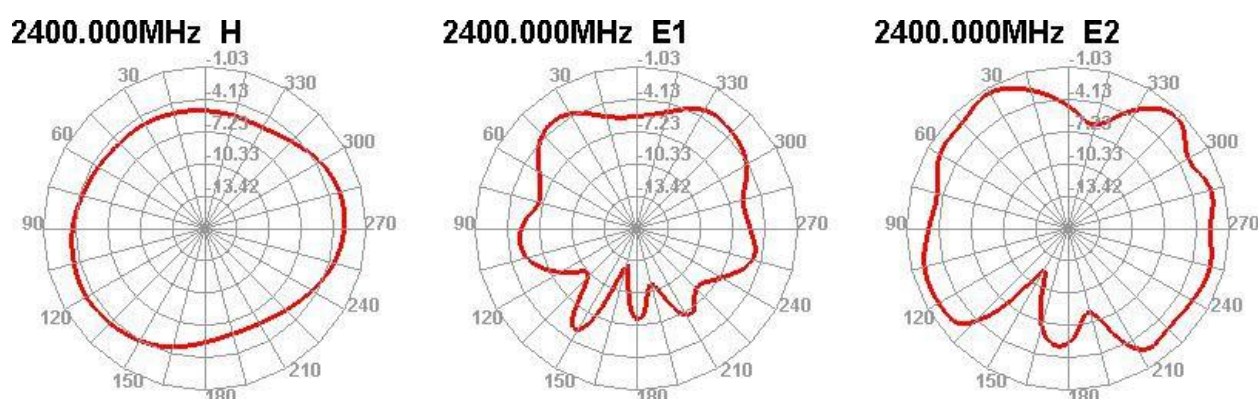
The Gain pattern is measured in INPAQ's FAR-field chamber. DUT is placed on the table of rotator,a standard horn antenna and Vector Network Analyzer is used to collect data.



### © 3D Gain Pattern (2400 MHz)



### © 2D Gain Pattern (2400 MHz)



|                                                                                                |                 |                                                                                                                                                                                                      |              |
|------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
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