

天线规格书
(Antenna Spec)

PengBanXingYe ShenZhen Technology Co. , Ltd

Address : Room 608,Building 4,1970 Science and Technology Town,Minzhi Street,Longhua District,Shenzhen.

产品规格承认书

SPECIFICATIONS

客户:

CUSTOMER: Ehong Technology Co., Ltd

产品名称:

DESCRIPTION: Bipolar antenna

客户型号:

CUSTOMER PART No: PBX3216HC01

产品型号:

OUR MODEL NO: PBX3216HC01

日期:

DATE: 2024.1.1

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

Approved

LiuFei

Audit

LiuFei

Making

LiuXiaoMei

Customer Acknowledges Signature

Date

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± X.X=± X.XX=

ANGLES = ± HOLEDIA = ±

SCALE: N/A UNIT: mm

DRAWN BY: Sera CHECKED BY: XD

DESIGNED BY: Sera APPROVED BY: XD

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TITLE: CHIP2450-3216 Specification

DOCUMENT NO. 3216

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PBX3216HC01 Specification

Operating Temp. : -40℃~+85℃

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

C H I P

2 4 5 0

3 2 1 6

(1)

(2)

(3)

(1) Product type: Multilayer chip Antenna

(2) Center Frequency: 2450MHz

(3) External Dimensions (L×W) (mm): 3.2*1.6

4. SHAPE AND DIMENSIONS:

L

W

H

A

3.2±0.2

1.6±0.2

0.52±0.1

0.4±0.1

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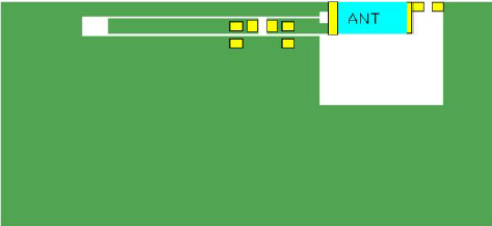
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Test plate reference size.

Company: mm

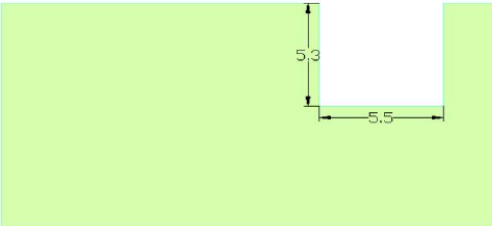


Antenna

PAD

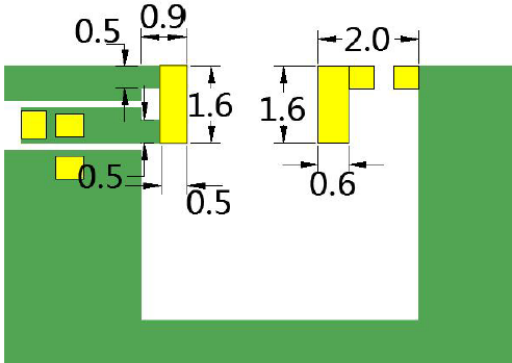
Copper laying on the bottom layer

Top layer copper laying



5.3

5.5



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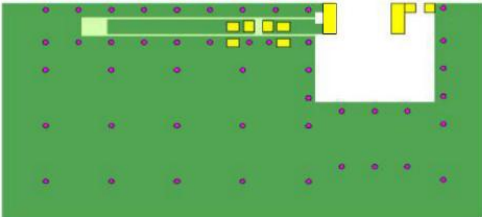
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Hole punching reference diagram



Antenna

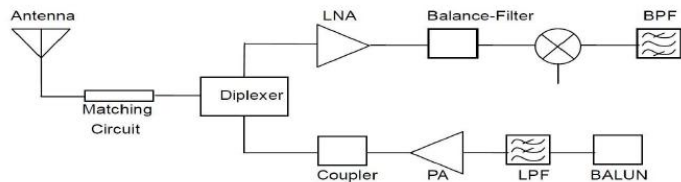
PAD

Copper laying on the bottom layer

Top layer copper laying

Punching

APPLICATION GUIDE



5. SPECIFICATIONS:

Test Item	Specifications
Bandwidth	2400-2483MHz
Polarization mode	Linear polarization
* Maximum gain	2.67dBi
* Efficiency	72.3%
Input Impedance	50Ω

* Test condition: Test board size 90*40 mm

Matching circuit: Pi matching circuit will be required

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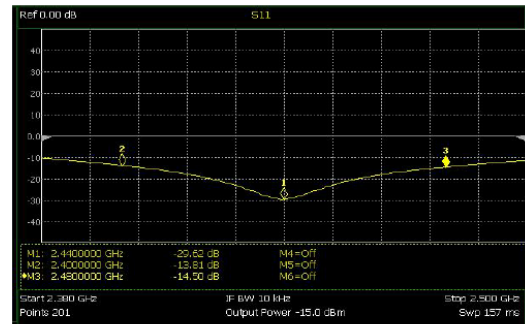
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6. Electrical Characteristics :

Return loss



Standing wave ratio



Mark	Frequency	VSWR
1	2400 MHz	1.513
2	2440 MHz	1.068
3	2480 MHz	1.464

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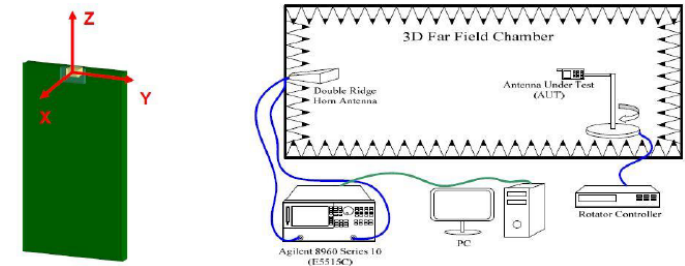
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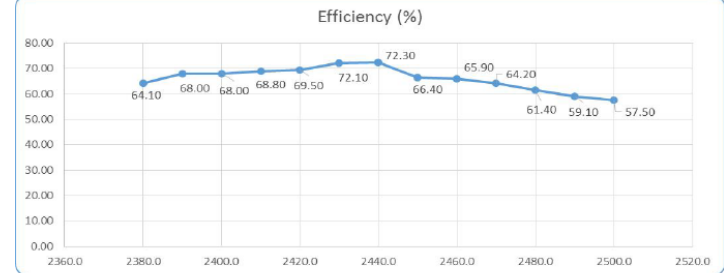
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Radiation Pattern

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



Efficiency



Maximum gain



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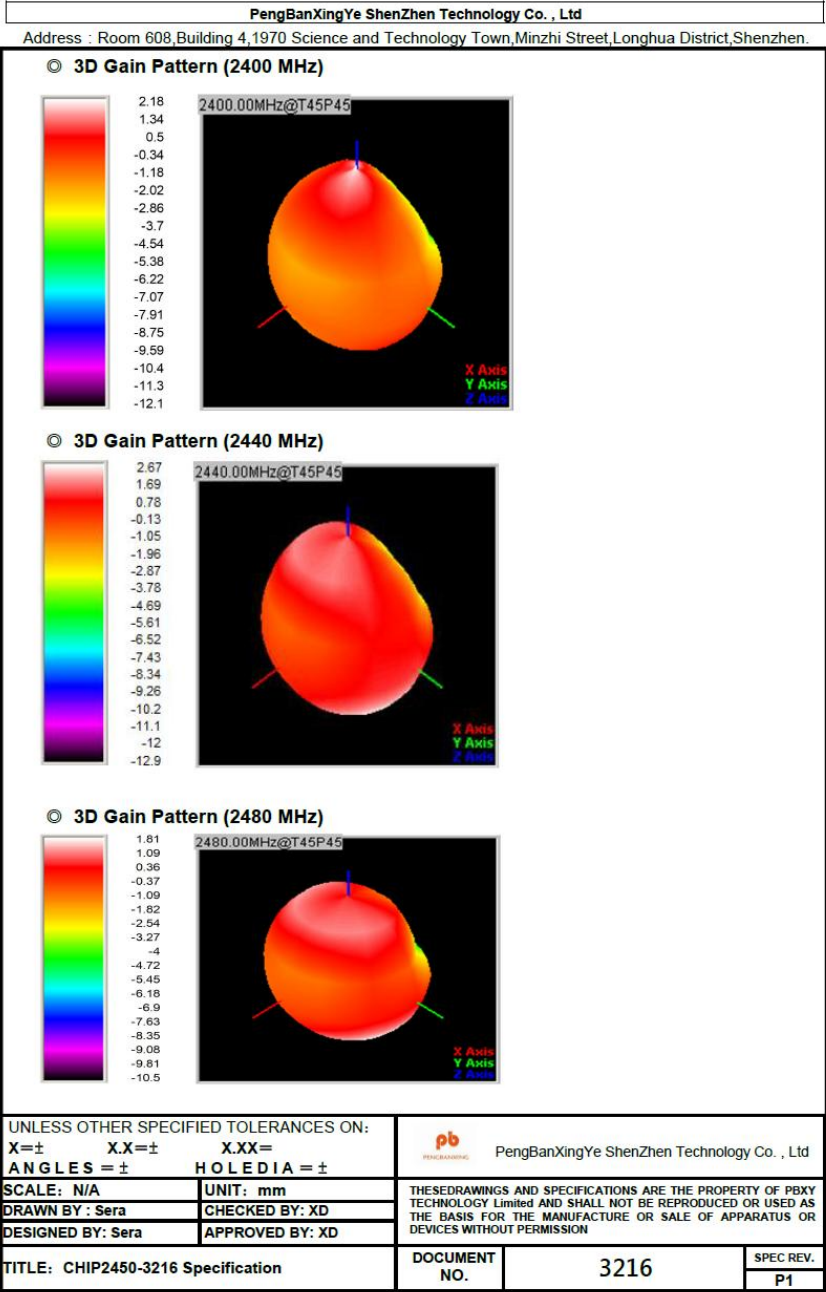
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8. Recommended Reflow Soldering

A	1 st rising temperature	The normal to Preheating temperature	30s to 60s
B	Preheating	140℃ to 160℃	60s to 120s
C	2 nd rising temperature	Preheating to 200℃	20s to 40s
D	Main heating	if 220℃	50s~60s
		if 230℃	40s~50s
		if 240℃	30s~40s
		if 250℃	20s~40s
E	Regular cooling	if 260℃	20s~40s
		200℃ to 100℃	1℃/s ~ 4℃/s

*reference: J-STD-020C

(1) Soldering Gun Procedure

Note the follows, in case of using solder gun for replacement.

(a) The tip temperature must be less than 350° C for the period within 3 seconds by using soldering gun under 30 W.

(b) The soldering gun tip shall not touch this product directly.

(2) Soldering Volume

Note that excess of soldering volume will easily get crack the body of this product.

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9. Taping Package and Label Marking: (unit: mm)

(1) Quantity/Reel: 5000pcs/Reel

(2) Carrier tape dimensions

Type	A	B	C	D	E	F	L	W
2450-21	8.00±0.3	3.50±0.05	1.75±0.1	2.00±0.05	4.00±0.1	1.50±0.1	2.30±0.1	1.55±0.1

(3) Taping reel dimensions

A	178.0±2.0
B	2.0±0.5
C	13.0±0.5
D	21.0±0.8
E	62.0±1.5
F	9.0±0.5
G	13.0±1.0

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