

# SPECIFICATIONS

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

DESCRIPTION: Geomagnetic Antenna

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

OUR MODEL NO: **PBX1608MA06**Antenna Type: Chip Antenna

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:<br>$X=\pm$ $X.X=\pm$ $X.XX=$<br><b>ANGLES</b> $=\pm$ <b>HOLEDIA</b> $=\pm$ |                 | <br>PENG BAN XING      PengBanXingYeShenZhen Technology Co. , Ltd                                                  |           |
| SCALE: N/A                                                                                                       | UNIT: mm        | THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBXY TECHNOLOGY Limited AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION |           |
| DRAWN BY : Sera                                                                                                  | CHECKED BY: XD  |                                                                                                                                                                                                       |           |
| DESIGNED BY: Sera                                                                                                | APPROVED BY: XD |                                                                                                                                                                                                       |           |
| TITLE: CHIP2450-1608 Specification                                                                               |                 | DOCUMENT NO.                                                                                                                                                                                          | SPEC REV. |
|                                                                                                                  |                 | 1608                                                                                                                                                                                                  | P1        |

**PBX1608MA06 Specification**

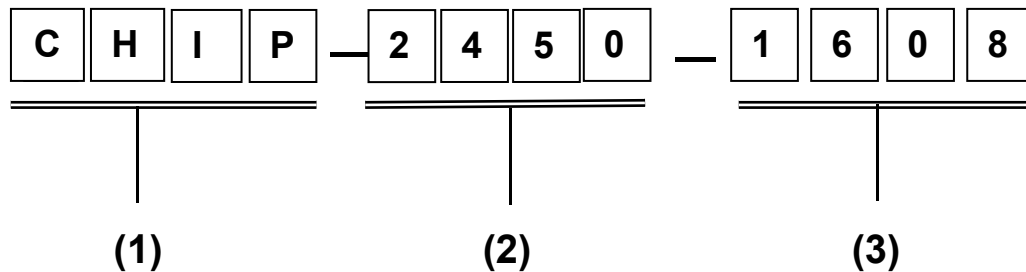
Operating Temp. : -40℃~+85℃

**1. FEATURES:**

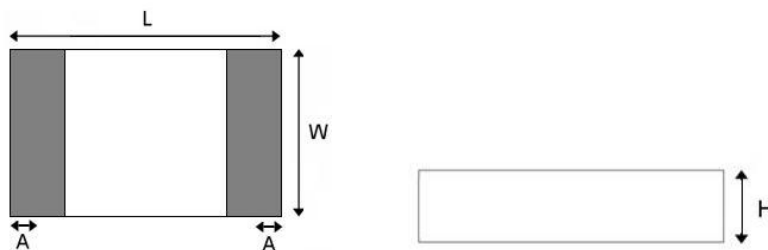
- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain

**2. APPLICATIONS:**

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

**3. PRODUCT IDENTIFICATION**

- (1) Product type: Multilayer chip Antenna  
 (2) Center Frequency: 2450MHz  
 (3) External Dimensions (L×W) (mm): 1.6\*0.8

**4. SHAPE AND DIMENSIONS:**

| L         | W         | H         | A         |
|-----------|-----------|-----------|-----------|
| 1.60±0.20 | 0.80±0.20 | 0.80±0.20 | 0.30±0.10 |

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±      X.X=±      X.XX=

ANGLES = ±      HOLEDIA = ±



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SCALE: N/A

UNIT: mm

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TITLE: CHIP2450-1608 Specification

DOCUMENT  
NO.

1608

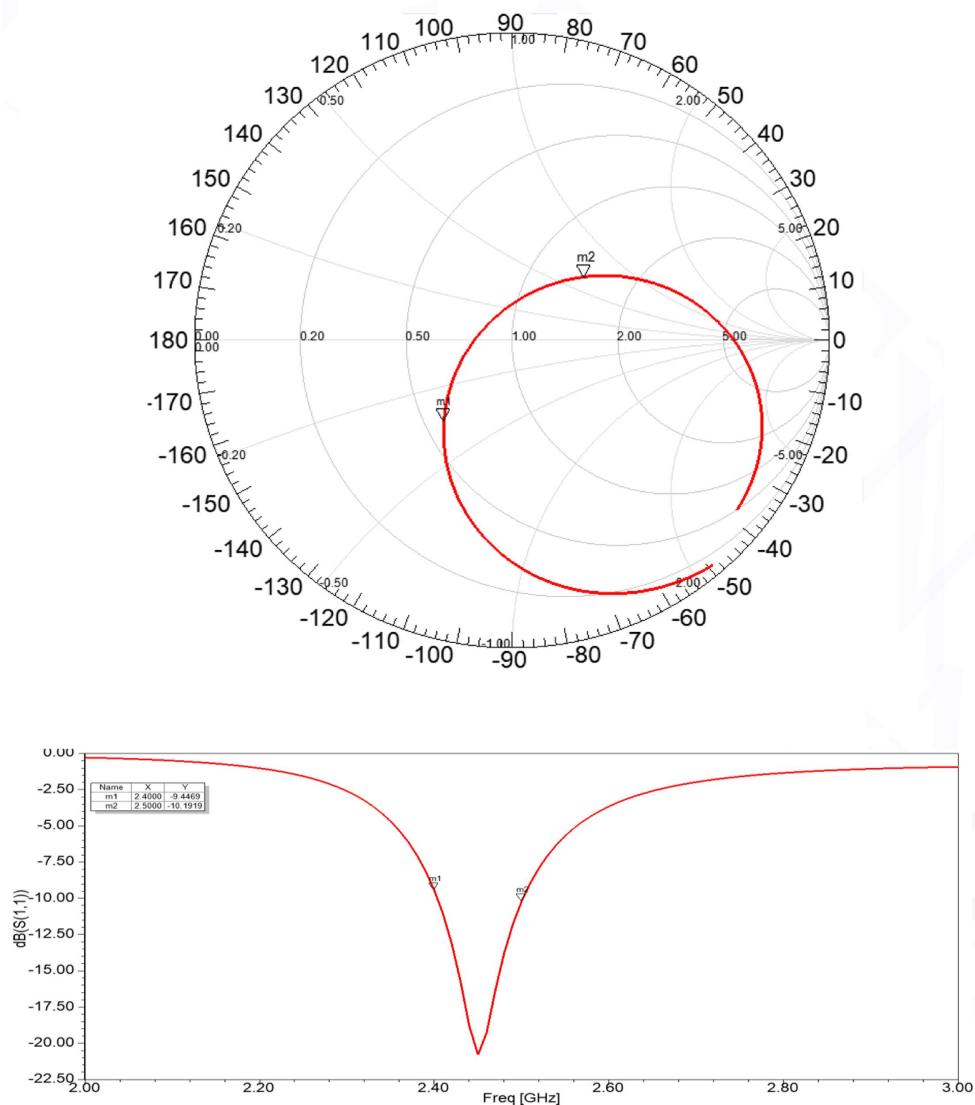
SPEC REV.

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## Electrical Characteristics

|   | Feature           | Specification   |
|---|-------------------|-----------------|
| 1 | Central frequency | 2.45GHz         |
| 2 | Bandwidth         | >150MHz         |
| 3 | Peak gain         | 2.78 dBi        |
| 4 | VSWR              | <2              |
| 5 | Polarization      | Linear          |
| 6 | Azimuth beamwidth | Omnidirectional |
| 7 | Impedance         | 50 $\Omega$     |

## Characteristic Curves



UNLESS OTHER SPECIFIED TOLERANCES ON:

$X = \pm$        $X.X = \pm$        $X.XX =$

ANGLES =  $\pm$       HOLEDIA =  $\pm$

SCALE: N/A

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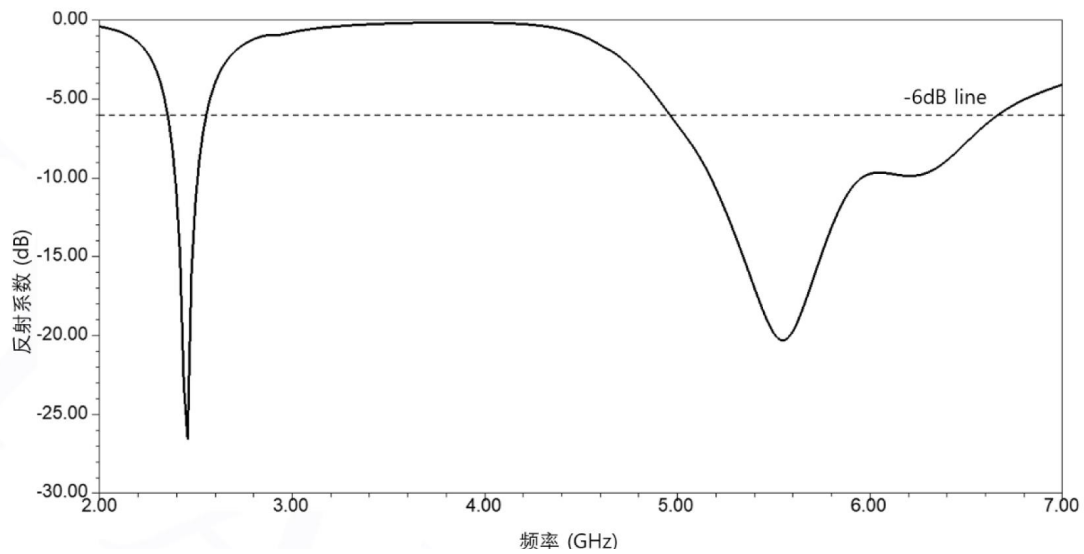
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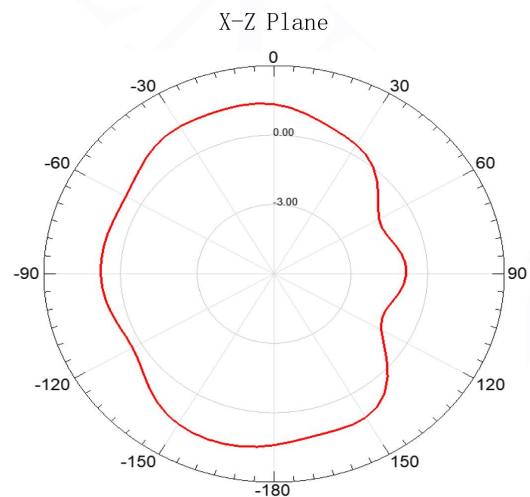
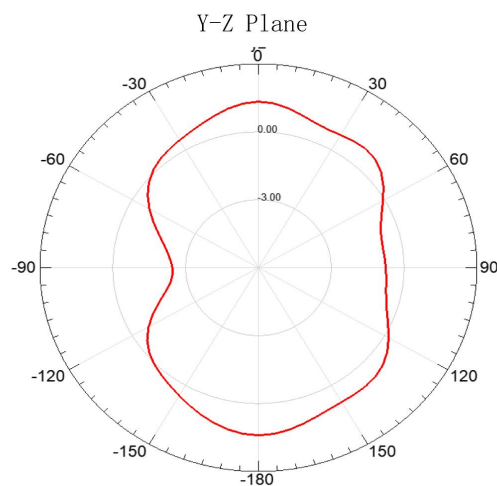
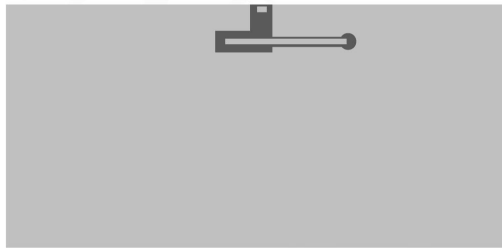
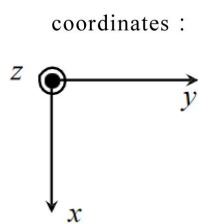
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## Radiation Pattern



UNLESS OTHER SPECIFIED TOLERANCES ON:

 $X = \pm$  $X.X = \pm$  $X.XX =$ ANGLES =  $\pm$ HOLE DIA =  $\pm$ 

SCALE: N/A

UNIT: mm

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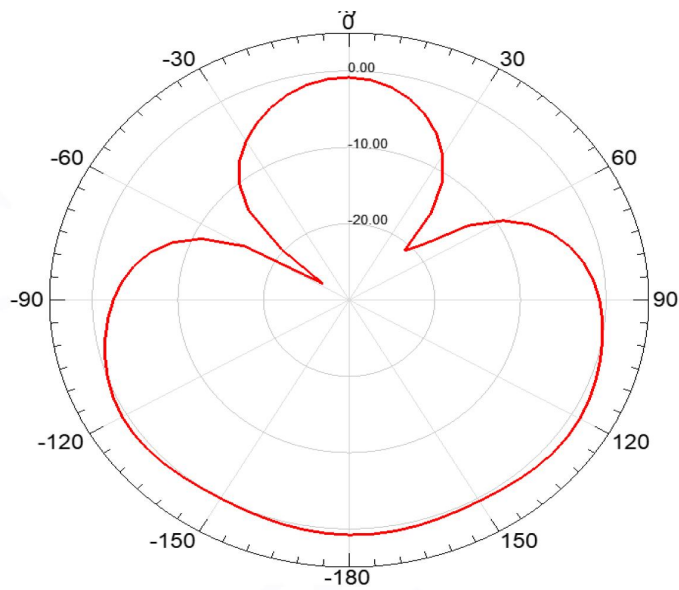
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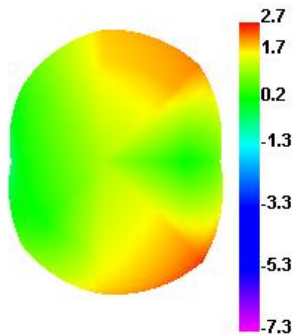
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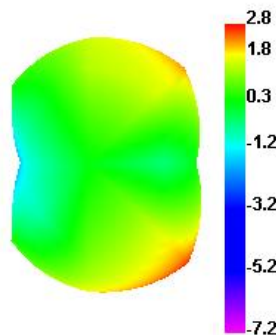


### 3D Radiation Pattern

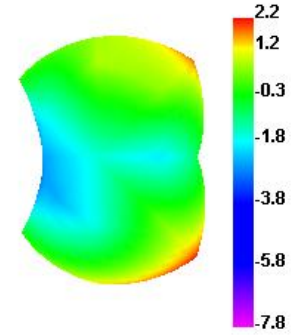
2400.000MHz



2450.000MHz

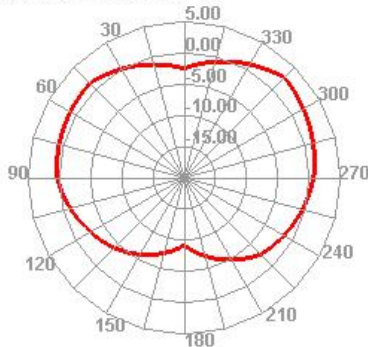


2500.000MHz

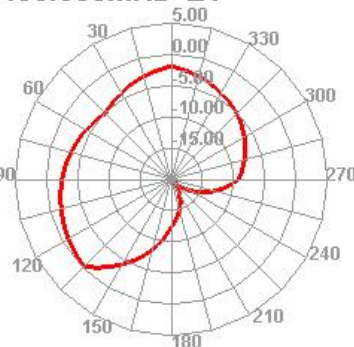


### 2D Gain Pattern (2400 MHz-2500MHz)

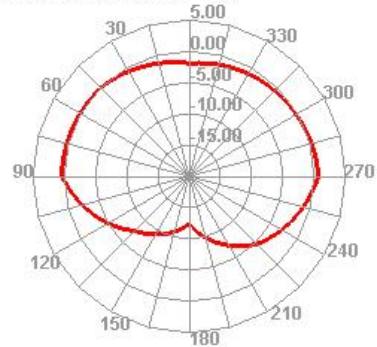
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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ANGLES = ± HOLEDIA = ±

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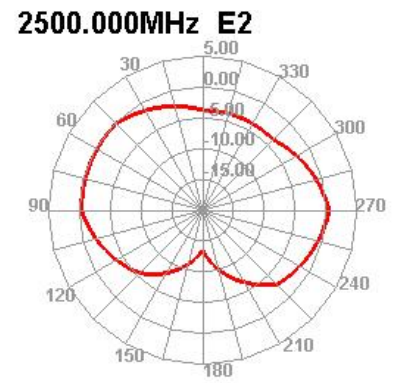
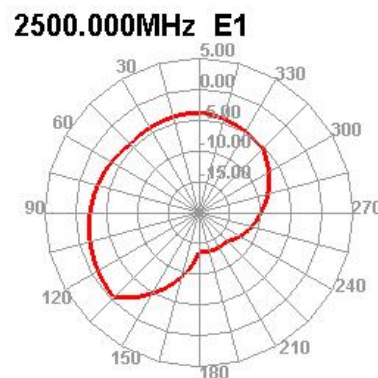
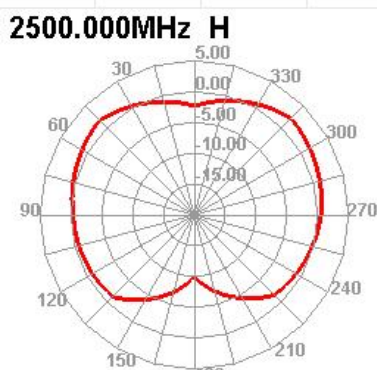
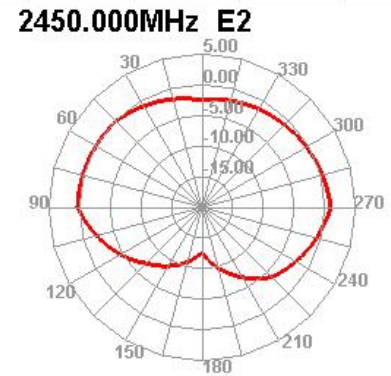
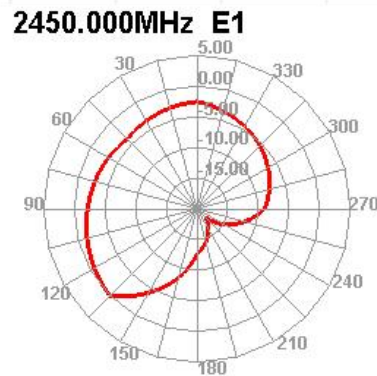
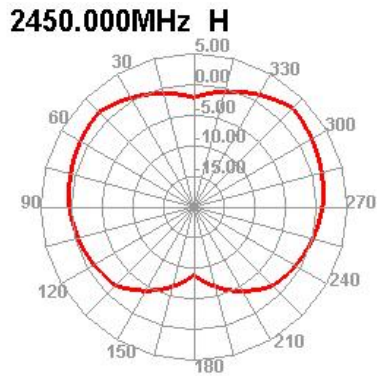
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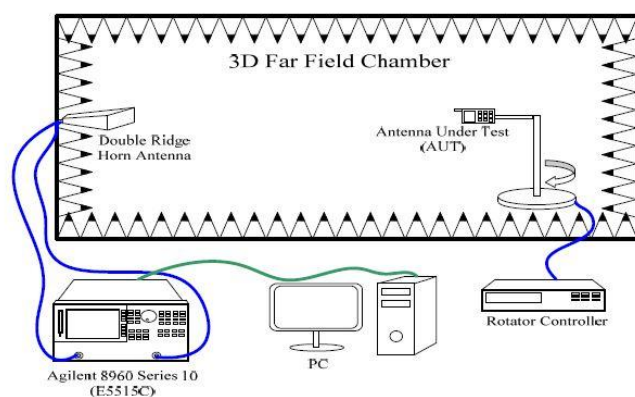
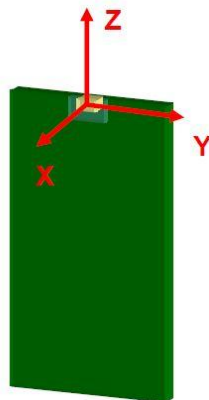
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### Radiation Pattern

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.



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