

ARTICLE : RFPCA360611IMAB301

1. Explanation of part number :

| RF | PCA | 3606 | 11 | I | M | A | B | 3 | 01 |
|------------------|------------------|--|---|--|---|--|--|--|---------------------|
| Type Code | Product Code | PCB Dimension (Unit: mm) | Cable Length (unit: cm) | Connector Brand | Type of Connector | Application | Project status | Wire Diameter | Project |
| Walsin RF Device | PCA: PCB Antenna | Per 2 digits of length, width e.g.:3316 Length 33.5mm, Width 16.6mm | 2 digits for cable length e.g.:30 Cable Length:30cm | A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None | A: Reverse Female B: Reverse Male F: Female M: Male N: None | 0: 0GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band | B: MP T:During Test X: Pile Run | 0:None 1:∅ 0.81 3:∅ 1.13 6:RG316 7:∅ 1.37 8:RG178 | 01-99 series number |

2. Electrical Specification :

| Item | Specification |
|-----------------|------------------|
| Frequency Range | 2.4 ~ 2.5 GHz |
| Impedance | 50 Ohm Nominal |
| Return Loss | -10 dB (Max) |
| Peak Gain | 3.64 dBi |
| VSWR | 2.0 (Max) |
| Radiation | Omni-directional |
| Polarization | Linear Vertical |
| Admitted Power | 1W |

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A UNIT : mm
 DRAWN BY : 李欣樺 CHECKED BY : 詹惠雯
 DESIGNED BY : 林育帆 APPROVED BY : 陳振榮

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE : RFPCA360611IMAB301

DOCUMENT NO. ENS070002390-000803707440

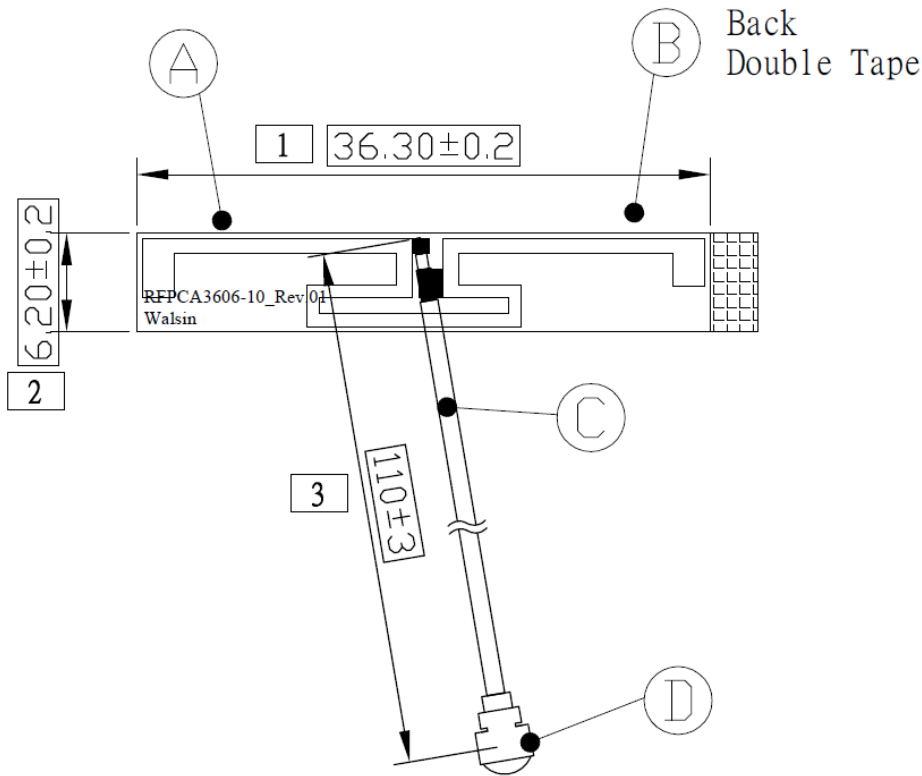
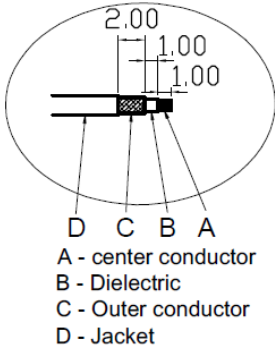
SPEC REV. **A0**

3. Antenna Drawing :

ELECTRICAL

Frequency : 2.4 GHz


| NO | DESCRIPTION | QTY | REMARK |
|----|---------------|--------------------|--------|
| A | Body | FR4(T=0.4mm),Black | 1 |
| B | Double Tape | 3M9888T | 1 |
| C | Coaxial cable | φ1.13 (Black) | 1 |
| D | Connector | IPEX Compatible | 1 |



attention to the IPEX direction.

RF Coaxial Connector direction:
 100mm : ±90°
 200mm : ±135°
 200mm Above dose not control

※□ indicates key sizes to be examined

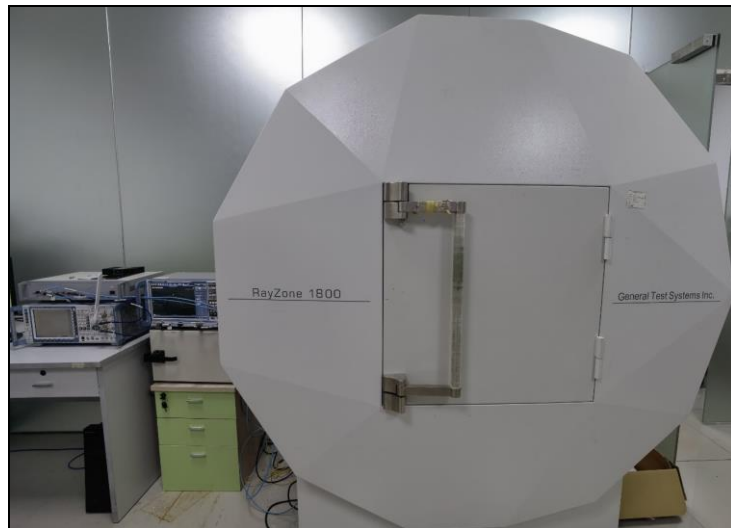
| | | |
|---|-------------------|---|
| UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A | |  INPAQ TECHNOLOGY CO., LTD. |
| SCALE : N/A | UNIT : mm | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | |
| TITLE : RFPCA360611MAB301 | | DOCUMENT NO. ENS070002390-000803707440 |
| | | SPEC REV. A0 |


4.Performance Report :

Test Report

Test system

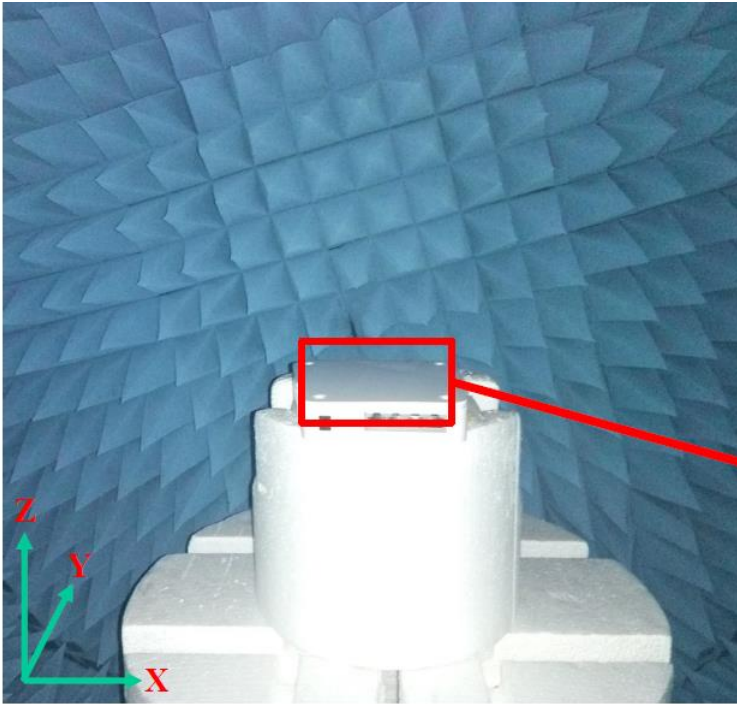
| | |
|---------------------------------|--|
| Test lab address | 515, Block C, New Generation Information Technology Industrial Park, 139 Chuangye Second Road, Baoan 28 District, Shenzhen |
| Testing equipment | ZNB08、RZ1800(The Testing equipment is calibrated once every 6 months , Last calibrated on 20240319) |
| Testing software | MaxSign Libra |
| Test standards and test methods | Accord with IEEE Std149-2021 |
| Operators and Date | FangTan Jin、20160812 |




| | | |
|---|-------------------|---|
| UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A | |  INPAQ TECHNOLOGY CO., LTD. |
| SCALE : N/A | UNIT : mm | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | |
| TITLE : RFPCA360611MAB301 | | DOCUMENT NO. ENS070002390-000803707440 |
| | | SPEC REV. A0 |

Experimental Setup

ANT5-2G



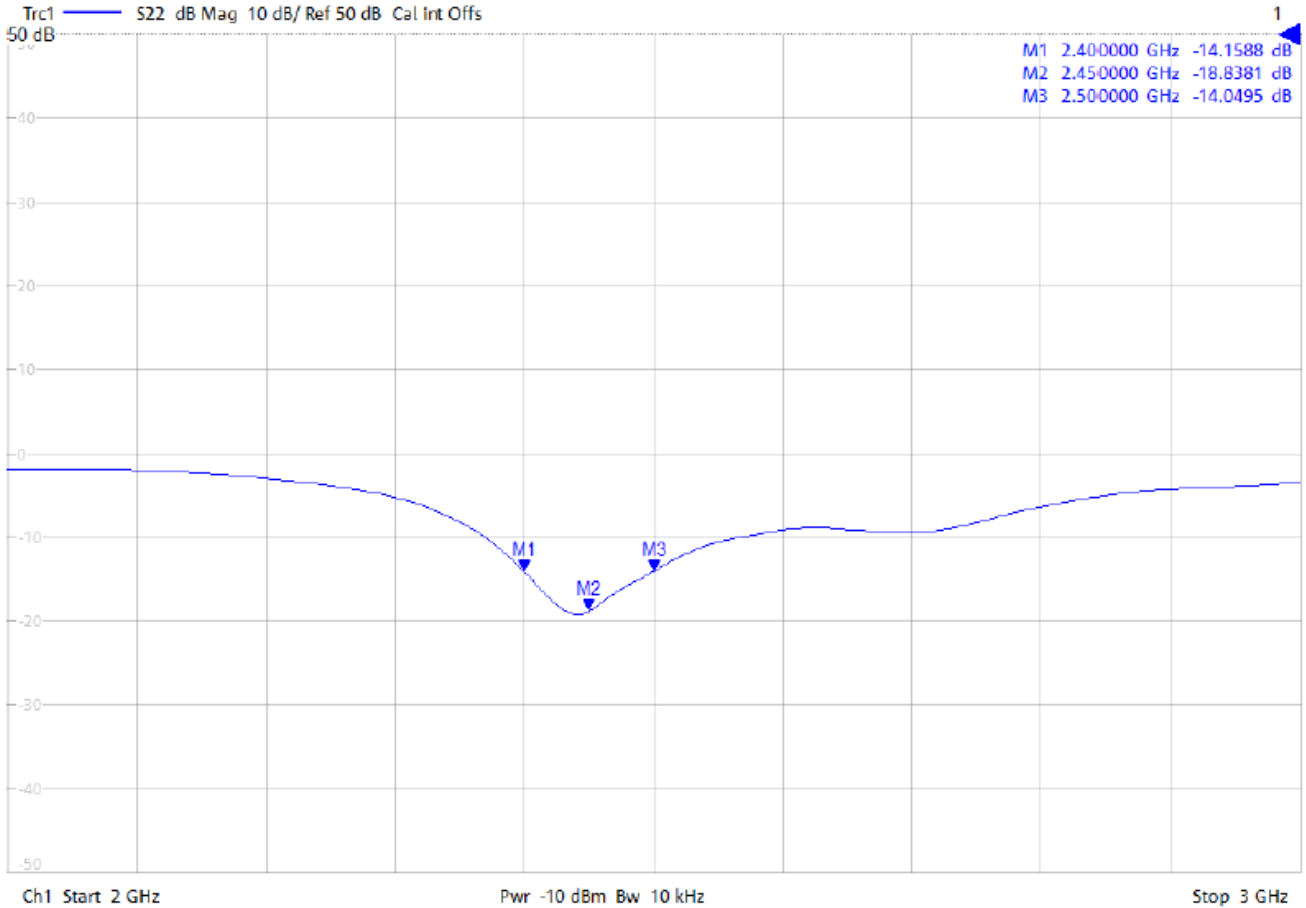
| | | | |
|---|-------------------|---|-----------------------------------|
| UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A | |  | INPAQ TECHNOLOGY CO., LTD. |
| SCALE : N/A | UNIT : mm | | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | | |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | | |
| TITLE : RFPCA360611IMAB301 | | DOCUMENT NO. | ENS070002390-000803707440 |
| | | SPEC REV. A0 | |


ELECTRICAL CHARACTERISTICS

Return Loss

ANT5

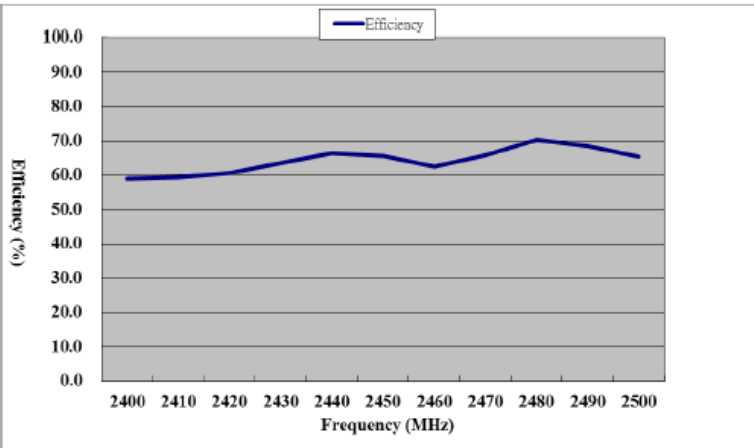
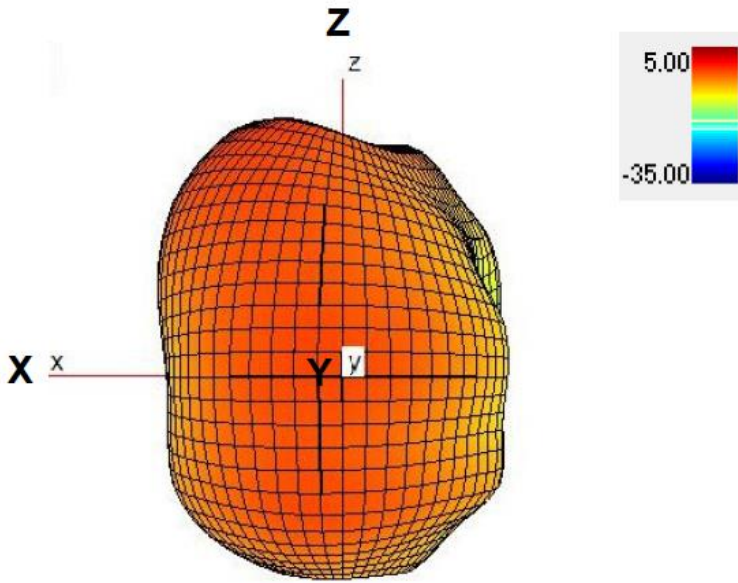
8/11/2016 3:46:45 AM
1311.6010K44-102859-gH



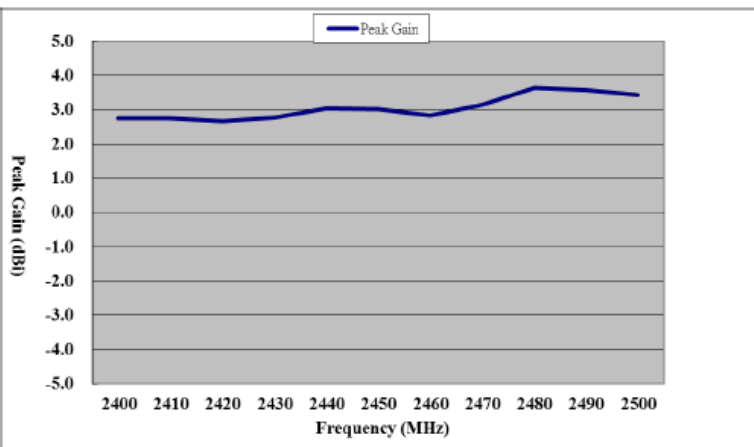
| | | |
|---|-------------------|---|
| UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A | |  INPAQ TECHNOLOGY CO., LTD. |
| SCALE : N/A | UNIT : mm | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | |
| TITLE : RFPCA360611IMAB301 | | DOCUMENT NO. ENS070002390-000803707440 |
| | | SPEC REV. A0 |

Antenna Efficiency & Peak Gain


2450MHz



Maximum Efficiency at 2480 MHz 70.32%



Maximum Peak Gain at 2480 MHz: 3.64dBi

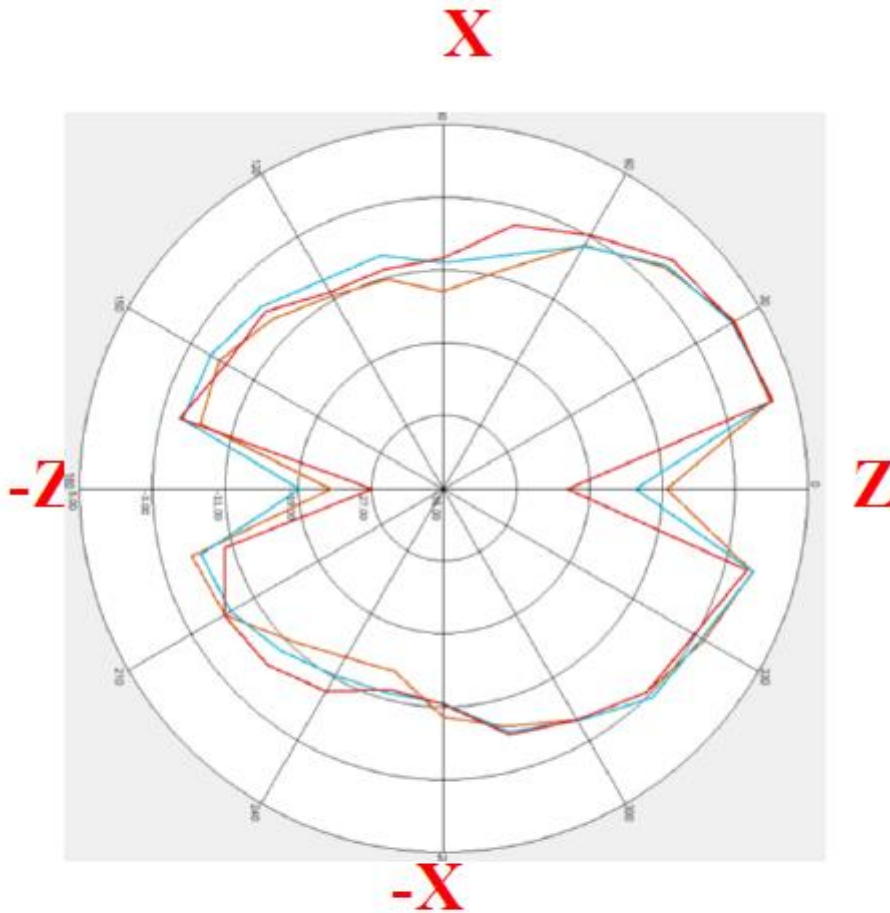
| | | |
|---|-------------------|---|
| UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A | |  INPAQ TECHNOLOGY CO., LTD. |
| SCALE : N/A | UNIT : mm | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | |
| TITLE : RFPCA360611MAB301 | | DOCUMENT NO. ENS070002390-000803707440 |
| | | SPEC REV. A0 |

RADIATION PATTERN


2400~2500 MHz

Phi=0.00deg

Gain . dB

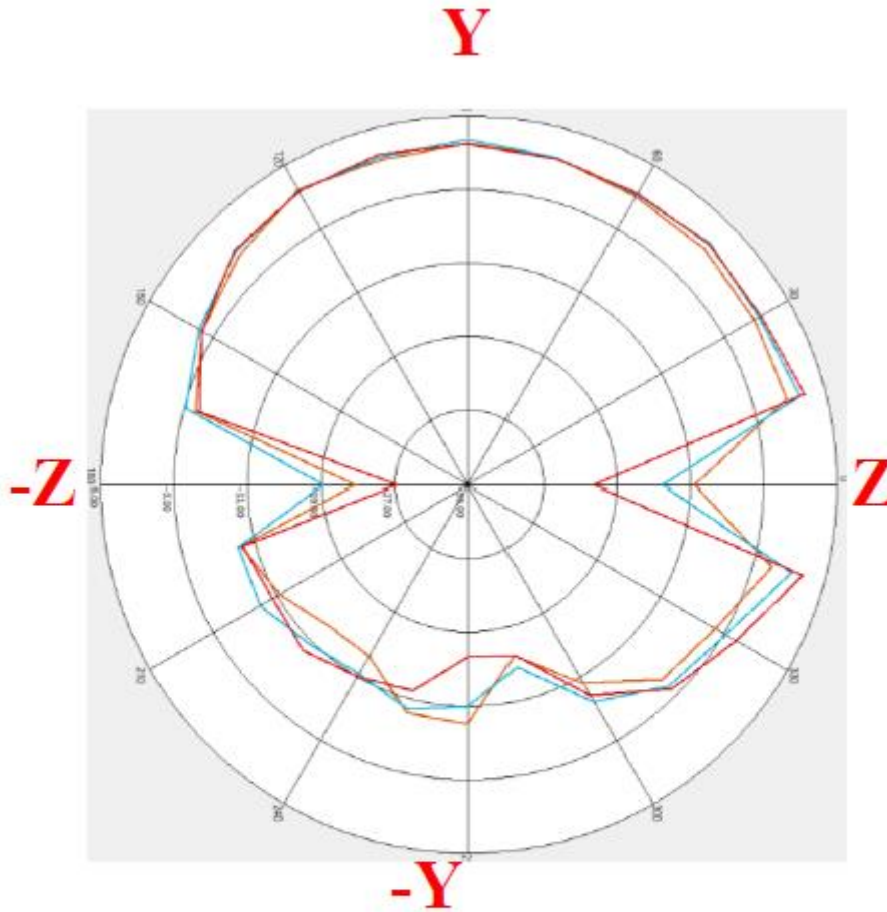


ZX plane


| | | | |
|--|---------------------------|---|----------------------------|
| UNLESS OTHER SPECIFIED TOLERANCES ON : | |  | INPAQ TECHNOLOGY CO., LTD. |
| X = N/A | X.X = N/A X.XX = N/A | | |
| ANGLES = N/A | | THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION | |
| SCALE : N/A | UNIT : mm | | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | | |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | | |
| TITLE : RFPCA360611IMAB301 | | DOCUMENT NO. | ENS070002390-000803707440 |
| | | SPEC REV. A0 | |

Phi=90.00deg

Gain . dB

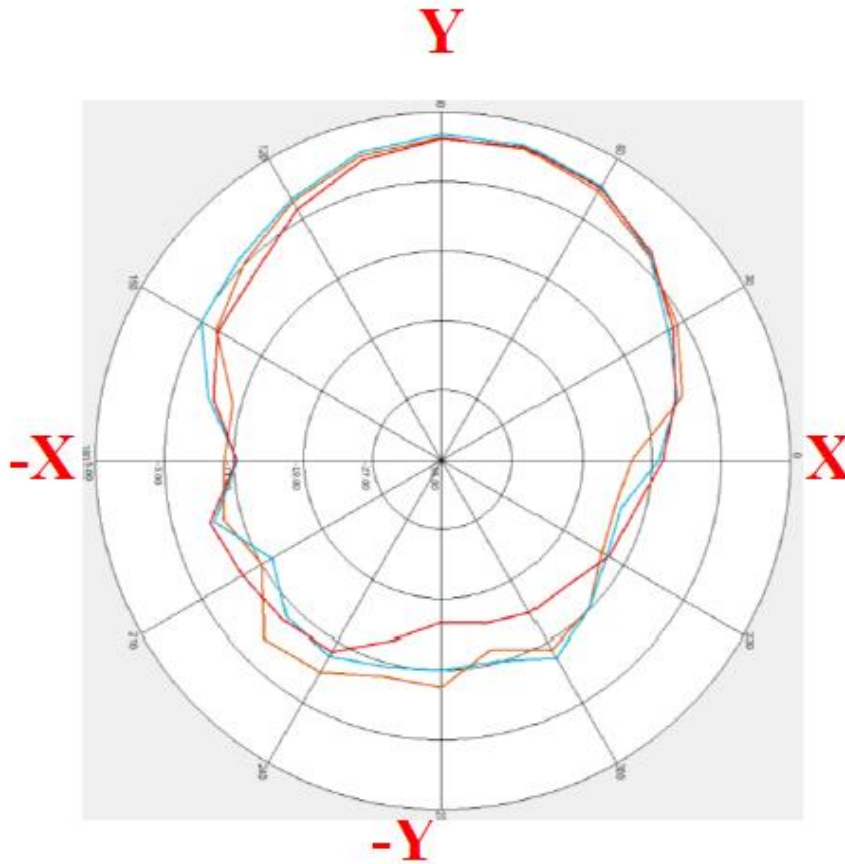


ZY plane

| | | | |
|--|-------------------|---|-----------------------------------|
| UNLESS OTHER SPECIFIED TOLERANCES ON : | |  | INPAQ TECHNOLOGY CO., LTD. |
| X = N/A | X.X = N/A | | |
| ANGLES = N/A | | HOLEDIA = N/A | |
| SCALE : N/A | UNIT : mm | | |
| DRAWN BY : 李欣樺 | CHECKED BY : 詹惠雯 | | |
| DESIGNED BY : 林育帆 | APPROVED BY : 陳振榮 | | |
| TITLE : RFPCA360611IMAB301 | | DOCUMENT NO. | ENS070002390-000803707440 |
| | | SPEC REV. A0 | |

Theta=90.00deg

Gain . dB



XY plane

| Frequency [MHz] | XZ-Plane | | YZ-Plane | | XY-Plane | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Max. Value (dB) | Ave. Value (dB) | Max. Value (dB) | Ave. Value (dB) | Max. Value (dB) | Ave. Value (dB) |
| 2400 MHz | 2.17 | -7.73 | 2.2 | -2.05 | 2.2 | -6.75 |
| 2450 MHz | 2.48 | -6.61 | 2.6 | -1.61 | 2.6 | -6.51 |
| 2500 MHz | 2.56 | -7.74 | 2.88 | -2.92 | 2.27 | -7.42 |

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A UNIT : mm
 DRAWN BY : 李欣樺 CHECKED BY : 詹惠雯
 DESIGNED BY : 林育帆 APPROVED BY : 陳振榮

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE : RFPCA360611IMAB301

DOCUMENT NO. ENS070002390-000803707440

SPEC REV. A0