

APPROVAL SHEET

PCB ANTENNA

2.4 GHz Band Working Frequency

Halogens Free Product

P/N: RFPCA500609IMAB301

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

| Version | Date | Description | Author |
|---------|--------------|-------------|--------|
| V01 | 2014 Dec. | New Release | HWCHAN |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ELECTRICAL CHARACTERISTICS

| Item | Specification |
|-----------------|------------------|
| Frequency Range | 2.4 ~ 2.5 GHz |
| Impedance | 50 Ohm Nominal |
| Return Loss | -10 dB (Max) |
| Peak Gain | 4.53dBi |
| VSWR | 2.0 (Max) |
| Radiation | Omni-directional |
| Polarization | Linear Vertical |
| Admitted Power | 1W |

*note-1: Electrical characteristics will depend on customer's final application.

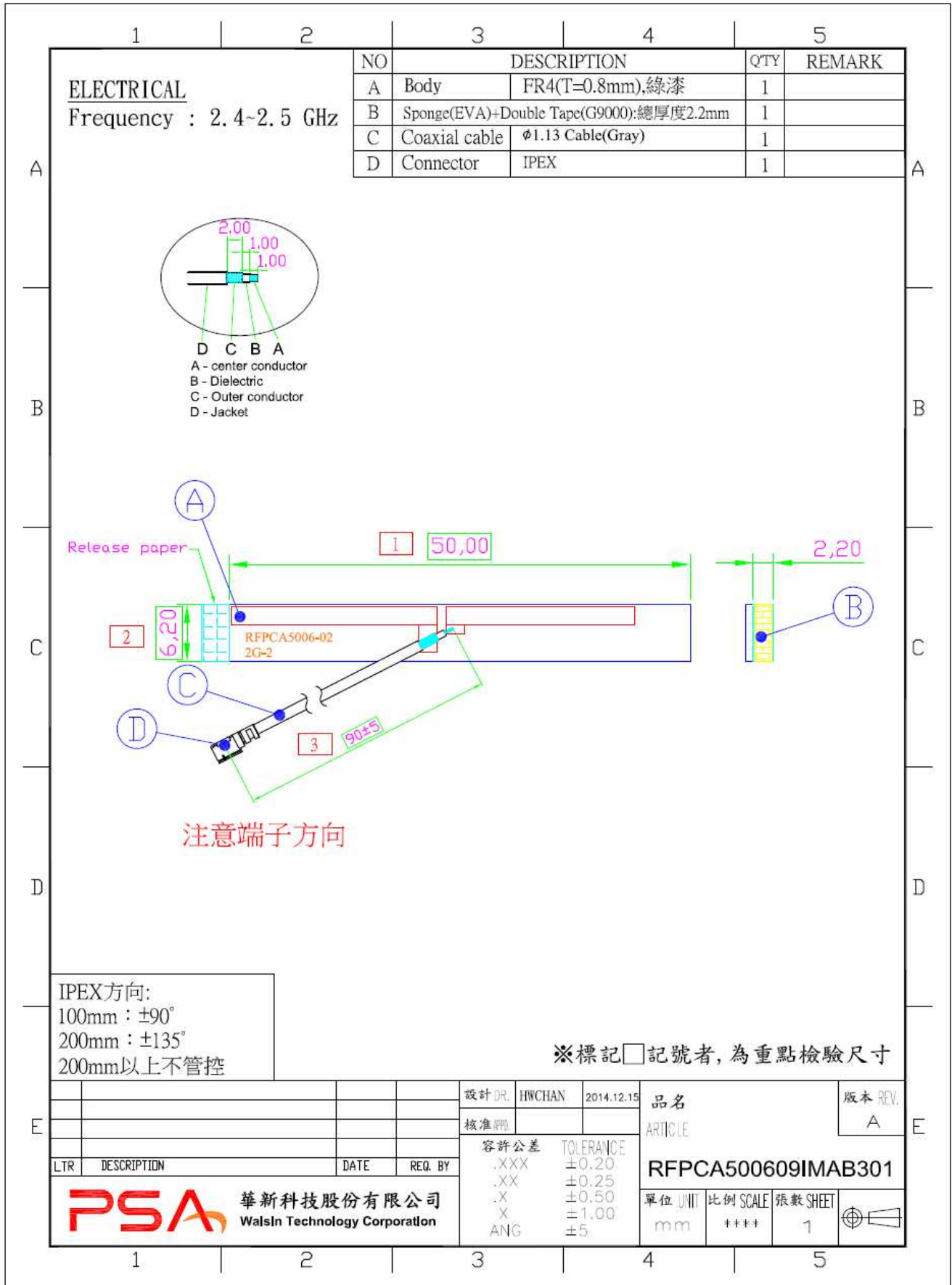
MATERIAL TABLE

| Items | Description |
|--------------------|--------------------|
| Cable | φ 1.13(Gray) |
| Connector | IPEX |
| FPC Antenna | FR4(綠漆噴錫板) T=0.8mm |
| Sponge+Double Tape | EPDM+G9000 |

ORDERING RULE

| RF | PCA | 5006 | 09 | 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.: 5006 Length 50mm, Width 6.2mm | 2 digits for cable length e.g.: 09 Cable Length:9cm | 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: Durin g Test X: Pile Run | 0:None 1:∅ 0.81 3:∅ 1.13 6:RG316 7:∅ 1.37 8:RG178 | 01-99 series number |

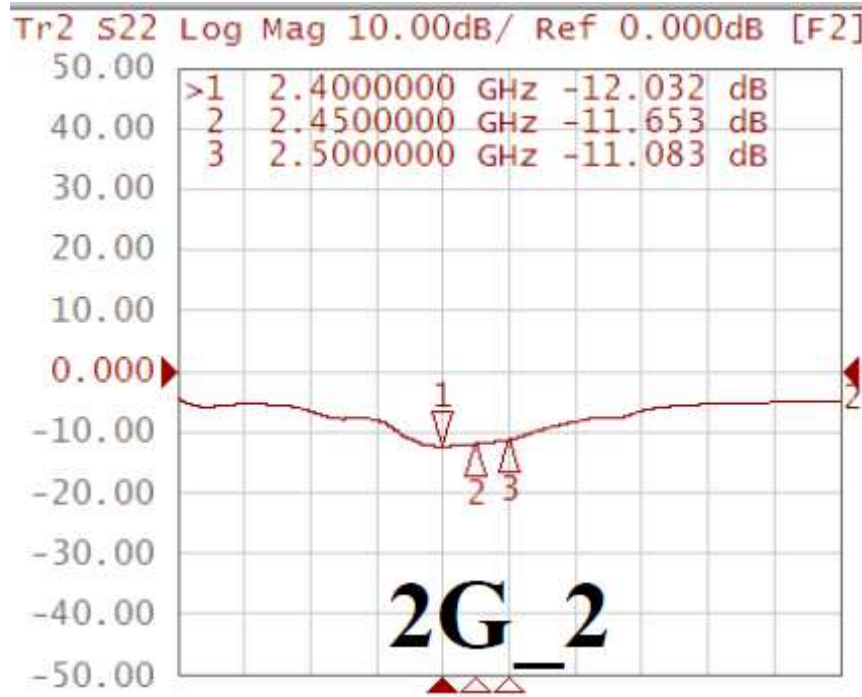
Appendix A: Dimensions



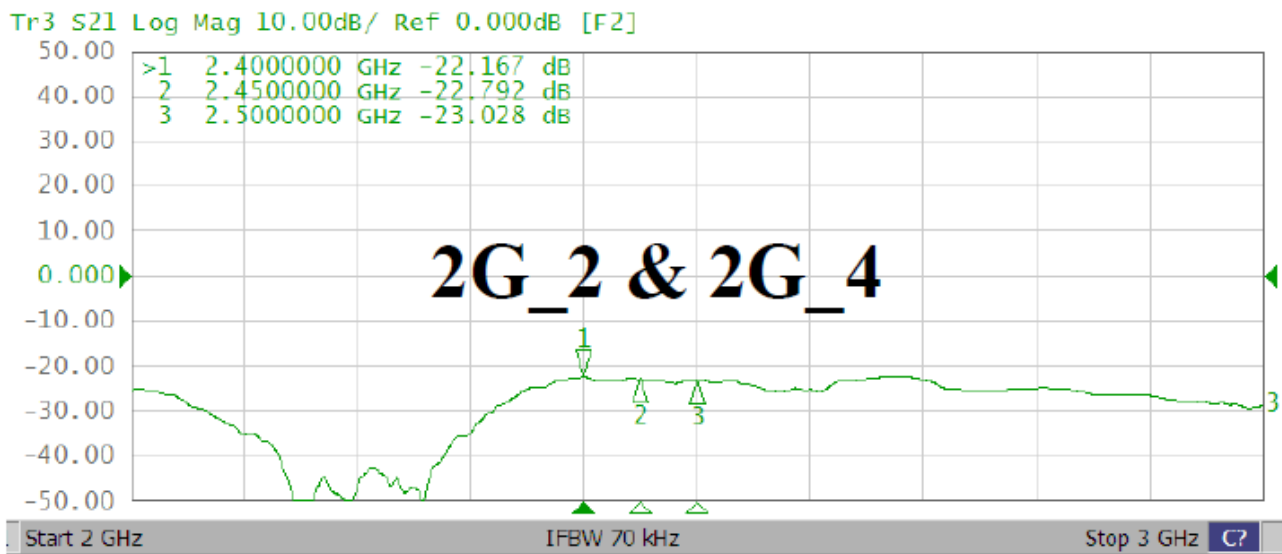
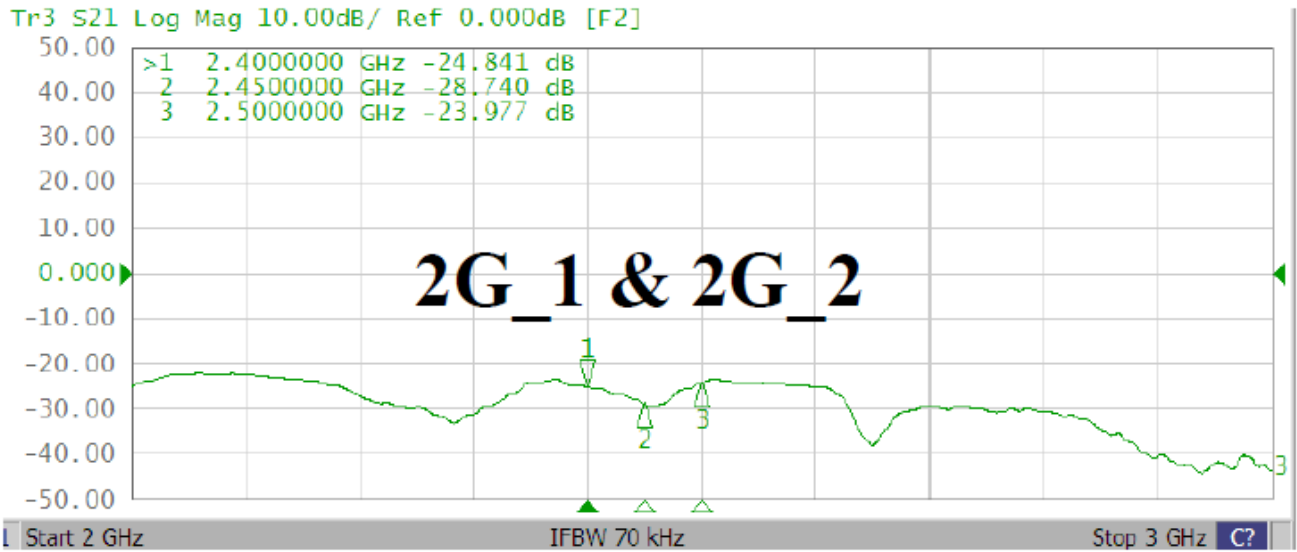
Test Report

ELECTRICAL CHARACTERISTICS

Return Loss

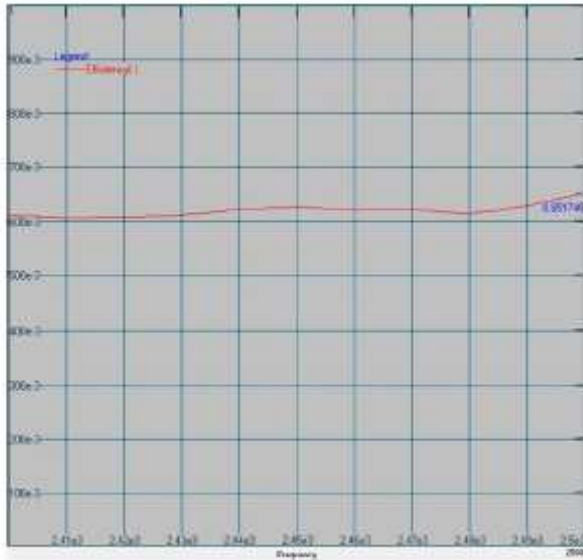


Isolation

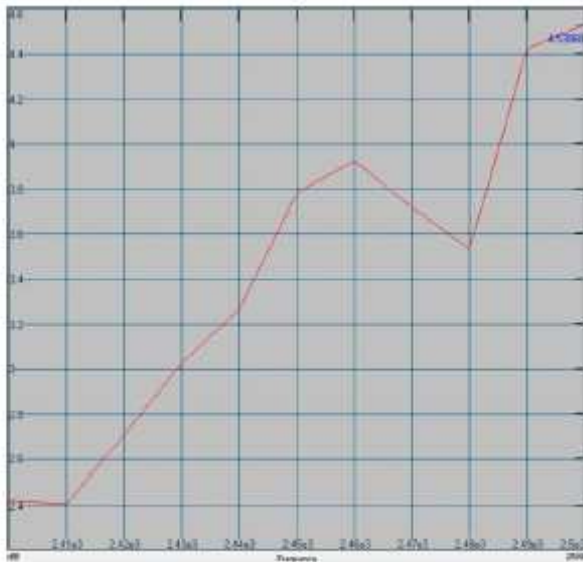


Antenna Efficiency & Peak Gain

2400~2500 MHz



Maximum Efficiency at 2500 MHz : 65.1 %



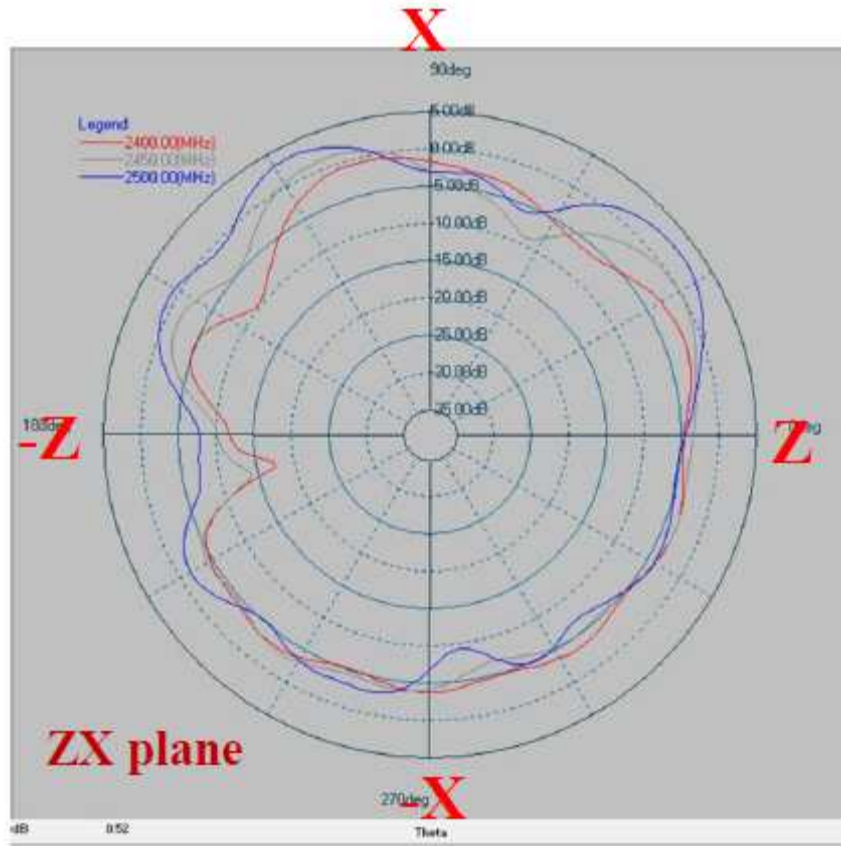
Maximum Peak Gain at 2500 MHz : 4.53dBi

RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

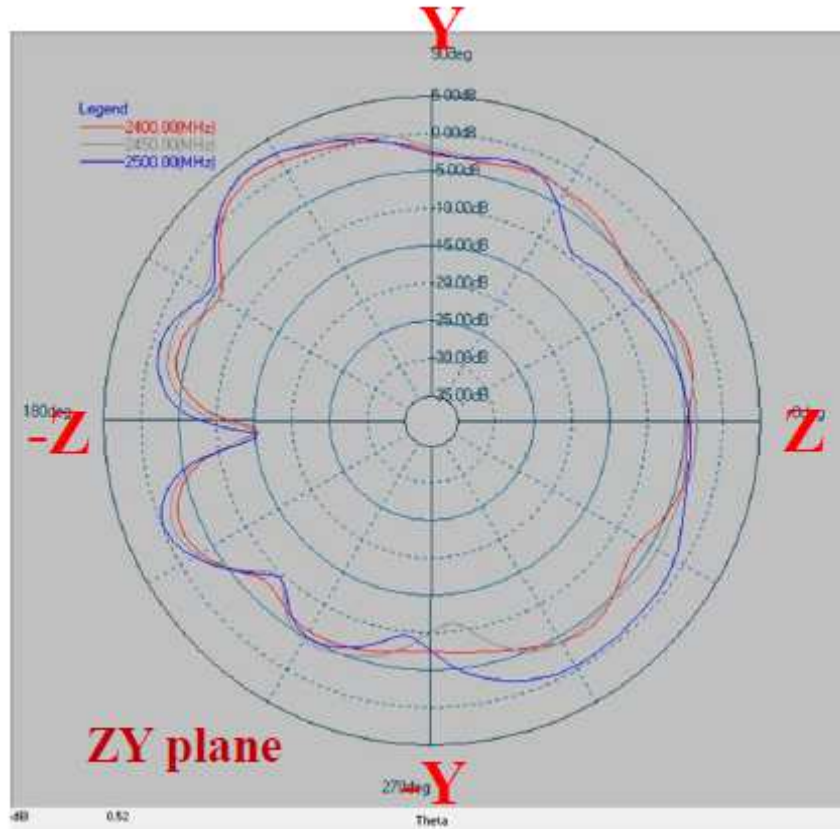
Gain . dB



2400~2500 MHz

Phi=90.00deg

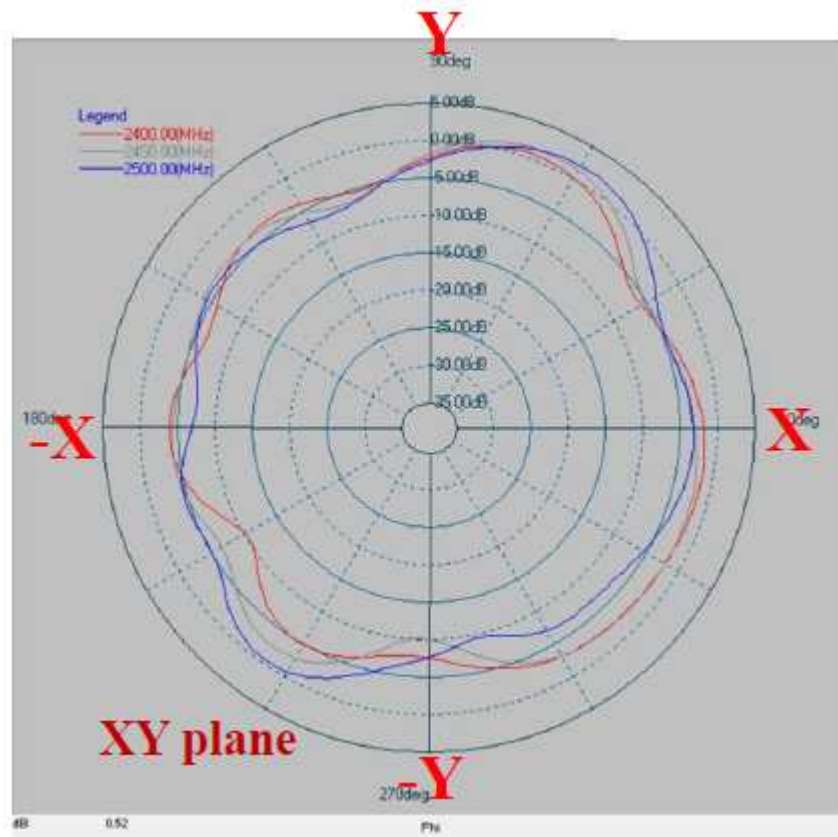
Gain . dB



2400~2500 MHz














Theta=90.00deg

Gain . dB



| Frequency [MHz] | ZX plane | | ZY plane | | XY plane | |
|-----------------|----------------|--------------|----------------|--------------|----------------|--------------|
| | Max Value [dB] | Average [dB] | Max Value [dB] | Average [dB] | Max Value [dB] | Average [dB] |
| 2400 | -0.72 | -4.30 | 1.78 | -3.62 | 0.56 | -3.62 |
| 2450 | 1.10 | -3.37 | 2.87 | -2.93 | 1.45 | -3.24 |
| 2500 | 3.15 | -1.82 | 3.03 | -2.56 | 1.91 | -3.40 |

Package

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|------------------|--|-------|---|-----------------------------|-----------------------------------|---|-------------------------------------|--|---|---|---|---|--|----------------------|--|--|--------------------|
| 華新科技股份有限公司 | | | | | | | | | | | | | | | | | | | | |
| RFPCA500611IMAB301 製品工程表 | | | 頁次： 4 之 3 | | | | | | | | | | | | | | | | | |
| | | | 規章編號： | | 版次：A版 | | | | | | | | | | | | | | | |
| | | | 制修訂日期：2014/10/10 | | | | | | | | | | | | | | | | | |
| 產品包裝圖示： | | | | | | | | | | | | | | | | | | | | |
| 圖一 | | | | | | | | | | | | | | | | | | | | |
|  | ⇒ |  | ⇒ |  | | | | | | | | | | | | | | | | |
| 單pcs產品 | | PE袋 | | 每10pcs一扎，每PE袋放5扎，PE袋需封口 | | | | | | | | | | | | | | | | |
| 圖二 | | | | | | | | | | | | | | | | | | | | |
|  | ⇒ |  | ⇒ |  | | | | | | | | | | | | | | | | |
| 珍珠棉 | | 外箱 | | 珍珠棉放入外箱 | | | | | | | | | | | | | | | | |
| 圖三 | | | | | | | | | | | | | | | | | | | | |
|  | ⇒ |  | ⇒ |  | ⇒ |  | | | | | | | | | | | | | | |
| 產品包裝規範： | | | | | | | | | | | | | | | | | | | | |
| 1.將每10pcs產品使用珍珠棉將IPEX端用白色橡皮筋包紮,然後裝入PE袋內,每PE袋裝5扎,每PE袋50pcs,PE袋需封口,如圖示(一) | | | | | | | | | | | | | | | | | | | | |
| 2.將珍珠棉放入外箱中(如圖示二) | | | | | | | | | | | | | | | | | | | | |
| 3.將裝好的成品(如圖示三)放入外箱中,每箱放2000pcs產品,上下各放1片珍珠棉,將包裝好的外箱左上方貼標籤,標籤需貼到最小包裝。 | | | | | | | | | | | | | | | | | | | | |
| 製造標籤圖示：實物標籤內容僅作參考 具體內容以出貨料號為準 (NO 1.): Spec desc. | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1</td> <td style="width: 50%;">Antenna Cable Assemble 1613</td> <td style="width: 40%;">(NO 2.): 料號 批號 數量(PN & LOT & QTY)</td> </tr> <tr> <td style="text-align: center;">2</td> <td>RFCBA161317SA6B301 75BD010011 10000</td> <td>(NO 3.): 盤點條碼(Inventory check barcode)</td> </tr> <tr> <td style="text-align: center;">3</td> <td></td> <td>(NO 4.): 列印時間-總張數(print system time-total piece this print)</td> </tr> <tr> <td style="text-align: center;">4</td> <td>-A2060223-102113161556-1 75BD010011 6001</td> <td>(NO 5.): 表示 BULK LOT</td> </tr> <tr> <td></td> <td></td> <td>(NO 6.):表示該張標籤流水序號</td> </tr> </table> | | | | | | 1 | Antenna Cable Assemble 1613 | (NO 2.): 料號 批號 數量(PN & LOT & QTY) | 2 | RFCBA161317SA6B301 75BD010011 10000 | (NO 3.): 盤點條碼(Inventory check barcode) | 3 |  | (NO 4.): 列印時間-總張數(print system time-total piece this print) | 4 | -A2060223-102113161556-1 75BD010011 6001 | (NO 5.): 表示 BULK LOT | | | (NO 6.):表示該張標籤流水序號 |
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| | | (NO 6.):表示該張標籤流水序號 | | | | | | | | | | | | | | | | | | |
| 核准： | 何耀輝 | 審核： | 張濤 | 制定： | 印芸 | | | | | | | | | | | | | | | |

单击下面可查看定价，库存，交付和生命周期等信息

[>>Walsin Technology\(华新科技\)](#)