

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.

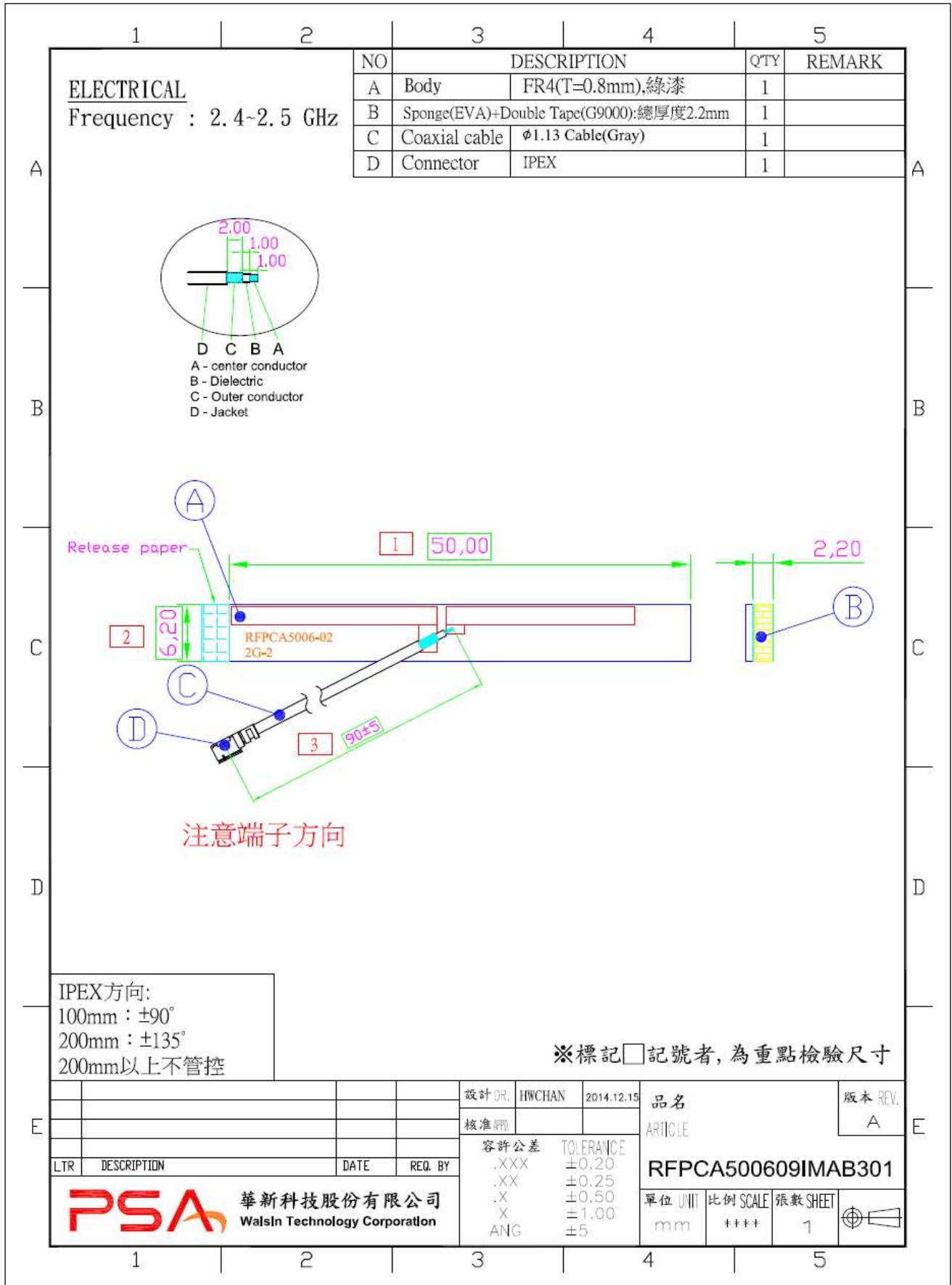
MATERIAL TABLE

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: ϕ 0.81 3: ϕ 1.13 6:RG316 7: ϕ 1.37 8:RG178	01-99 series number

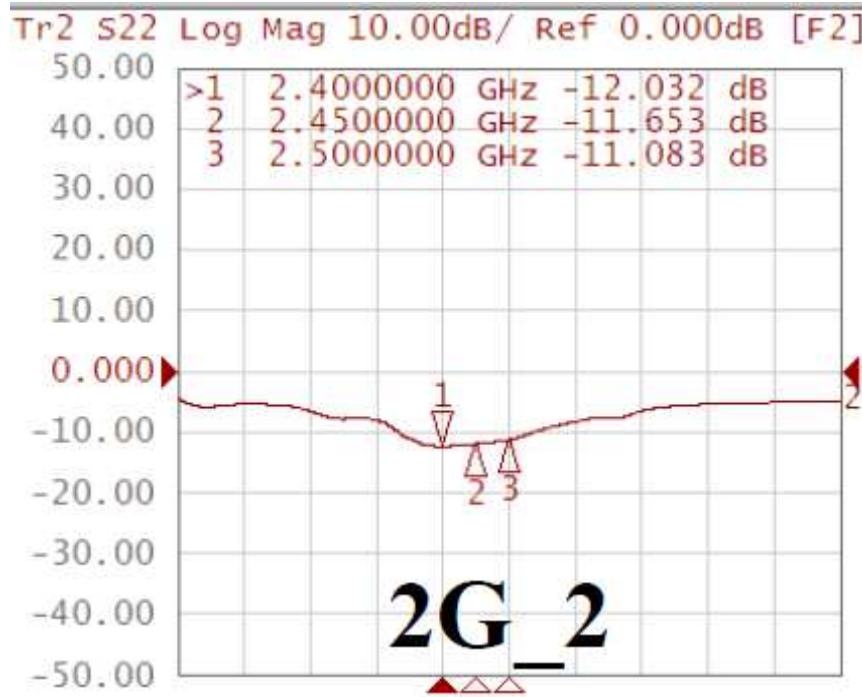
Appendix A: Dimensions



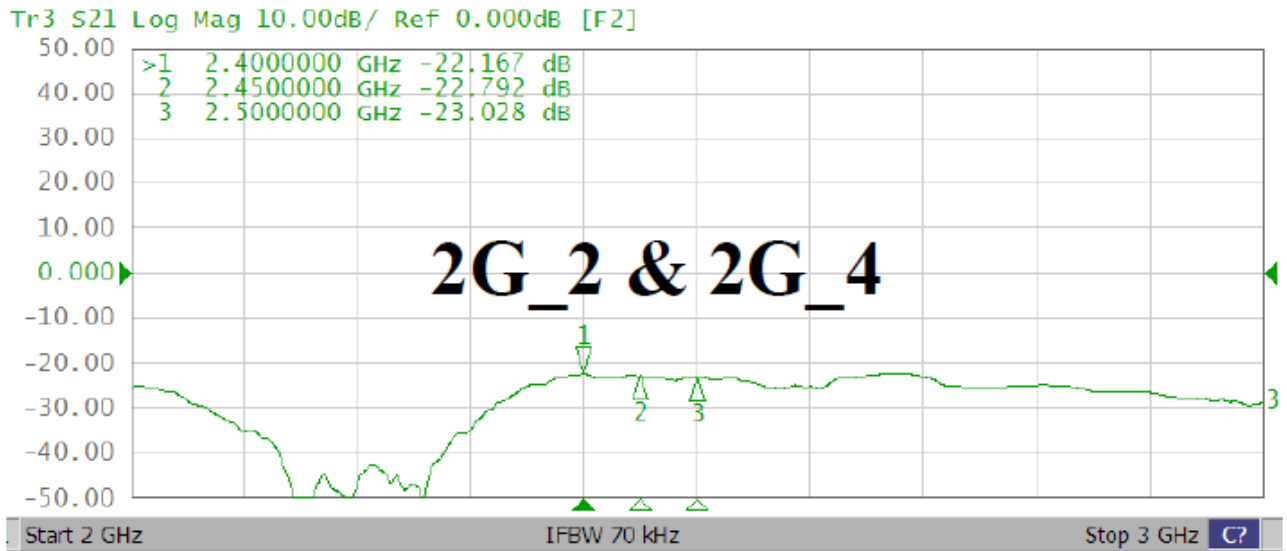
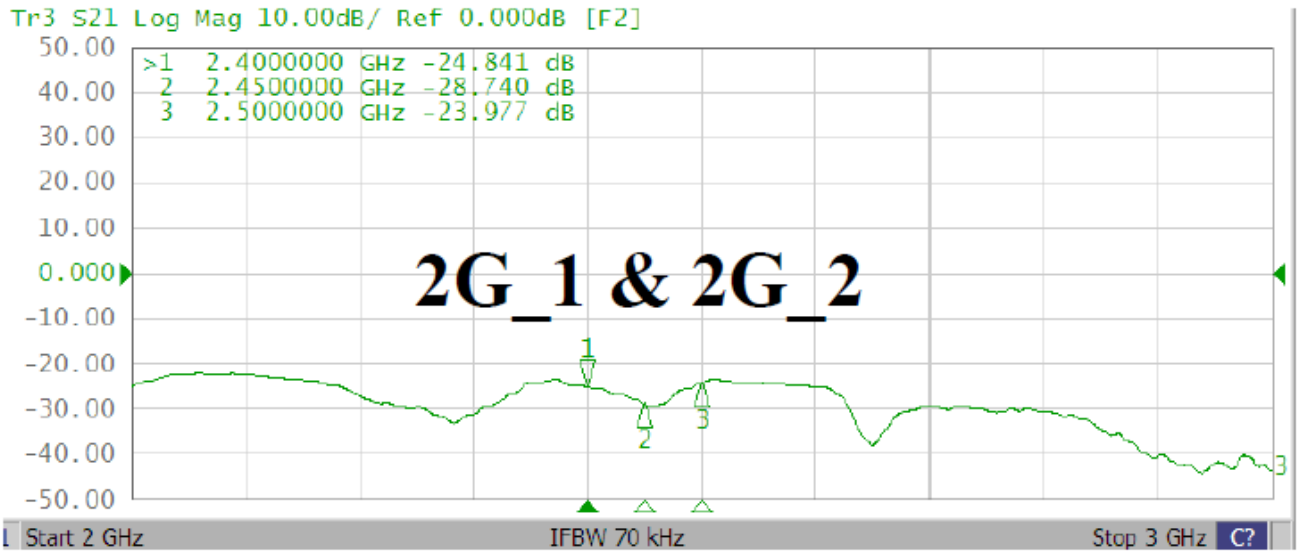
Test Report

ELECTRICAL CHARACTERISTICS

Return Loss

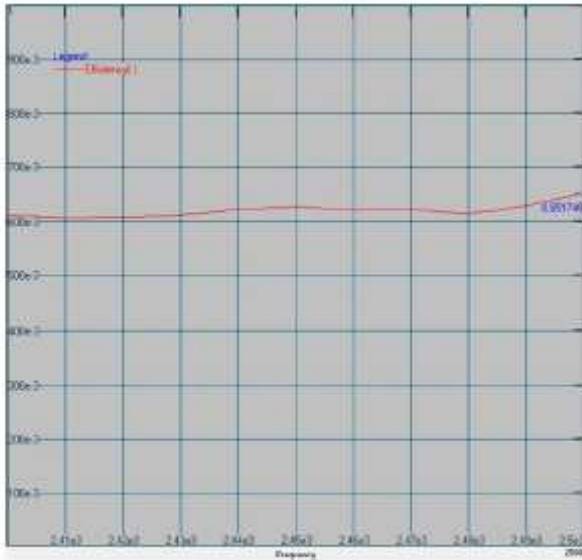


Isolation

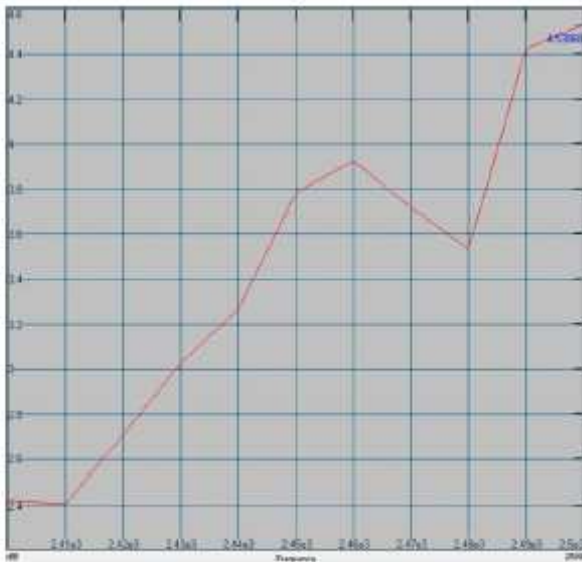


Antenna Efficiency & Peak Gain

2400~2500 MHz



Maximum Efficiency at 2500 MHz : 65.1 %



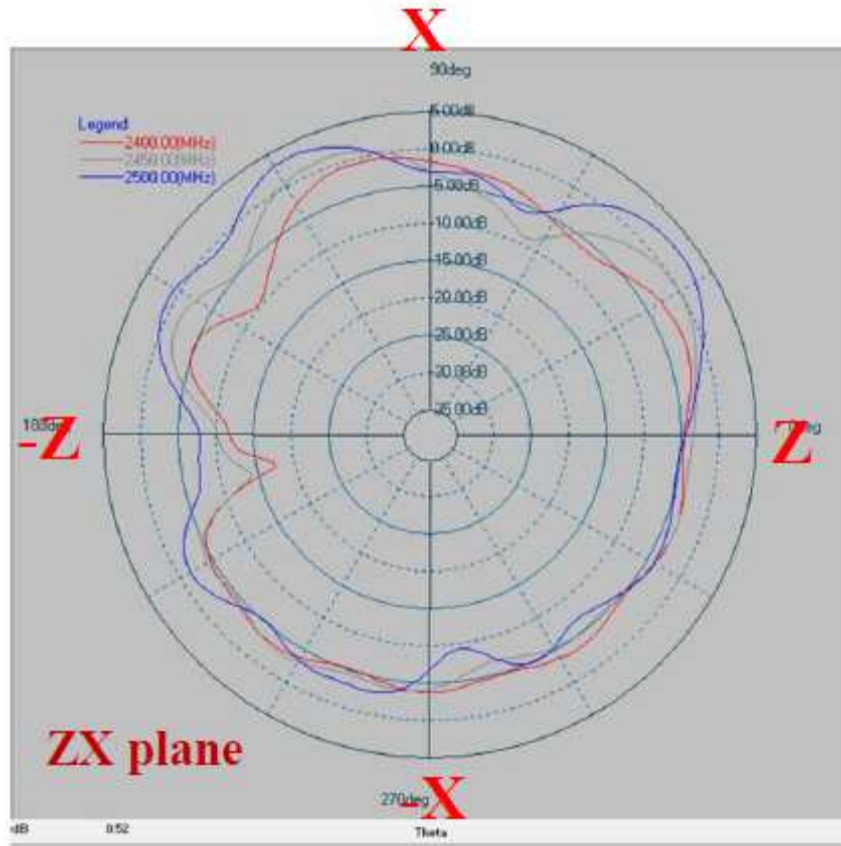
Maximum Peak Gain at 2500 MHz : 4.53dBi

RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

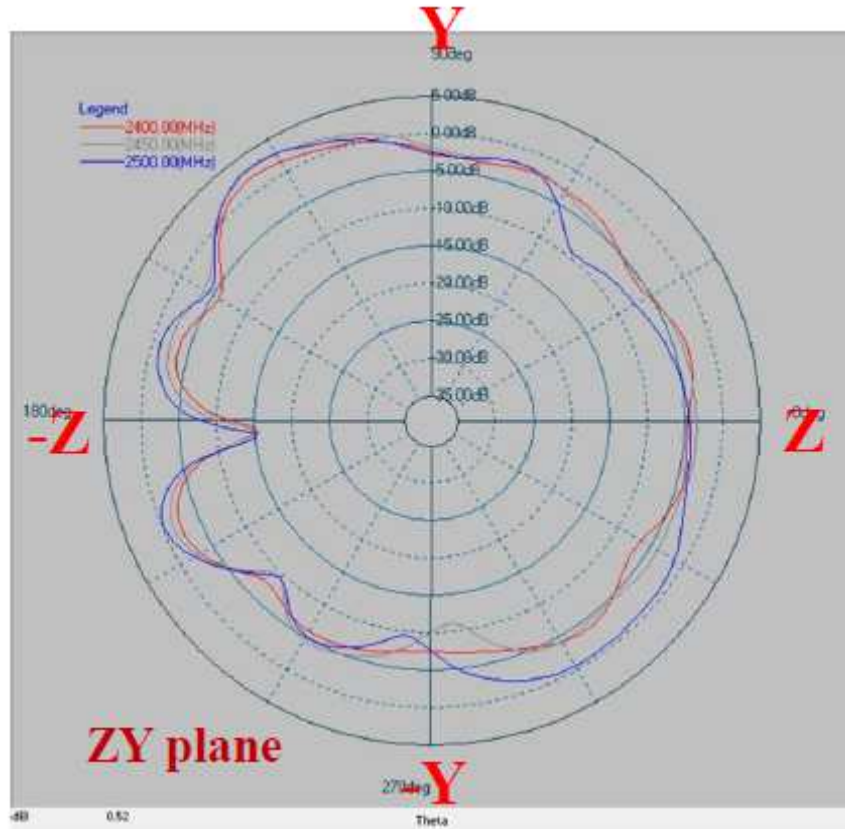
Gain . dB



2400~2500 MHz

Phi=90.00deg

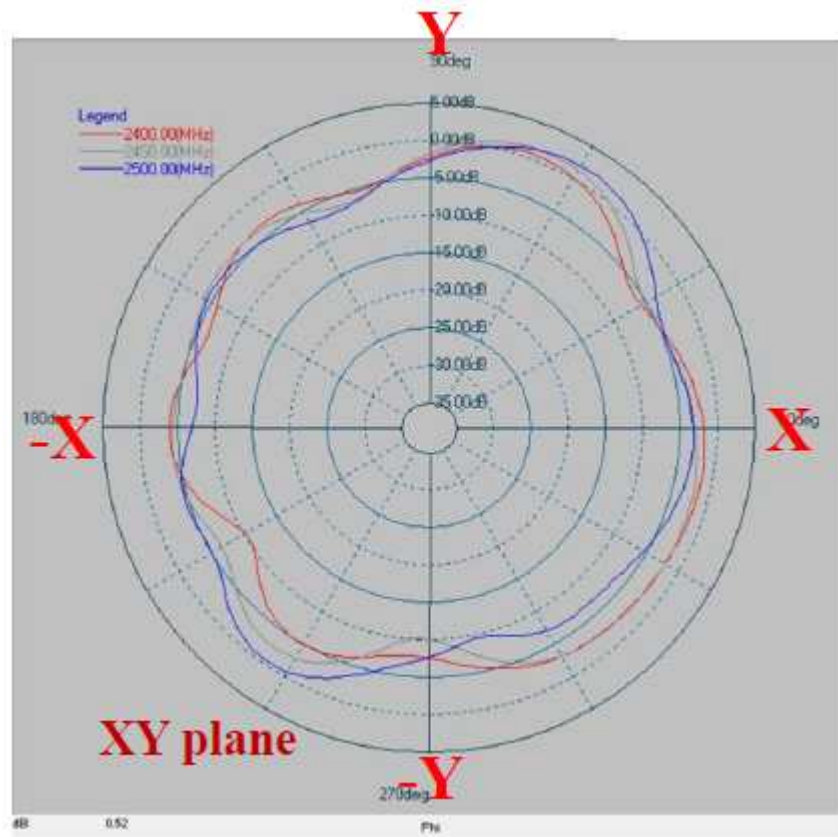
Gain . dB



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：					
<p>1.將每10pcs產品使用珍珠棉將IPEX端用白色橡皮筋包扎,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)</p> <p>2.將珍珠棉放入外箱中(如圖示二)</p> <p>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。</p>					
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					
	<p>(NO 1.): Spec desc.</p> <p>(NO 2.): 料號 批號 數量(PN & LOT & QTY)</p> <p>(NO 3.): 盤點條碼(Inventory check barcode)</p> <p>(NO 4.): 列印時間-總張數(print system time-total piece this print)</p> <p>(NO 5.): 表示 BULK LOT</p> <p>(NO 6.):表示該張標籤流水序號</p>				
核准：	何耀輝	審核：	張濤	制定：	印芸