

# APPROVAL SHEET

## **PCB ANTENNA**

### **5.x GHz Band Working Frequency**

### **Halogens Free Product**

### **P/N: RFPCA201018IM5B301**

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 Oct.	New Release	HWCHAN
V02	2014 Dec.	Modify Cable Color and Add Release Paper	HWCHAN

**ELECTRICAL CHARACTERISTICS**

Item	Specification
Frequency Range	5.15 ~ 5.85 GHz
Impedance	50 Ohm Nominal
Return Loss	-10 dB (Max)
Peak Gain	5.47 dBi
VSWR	2.0 (Max)
Radiation	Omni-directional
Polarization	Linear Vertical
Admitted Power	1W

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

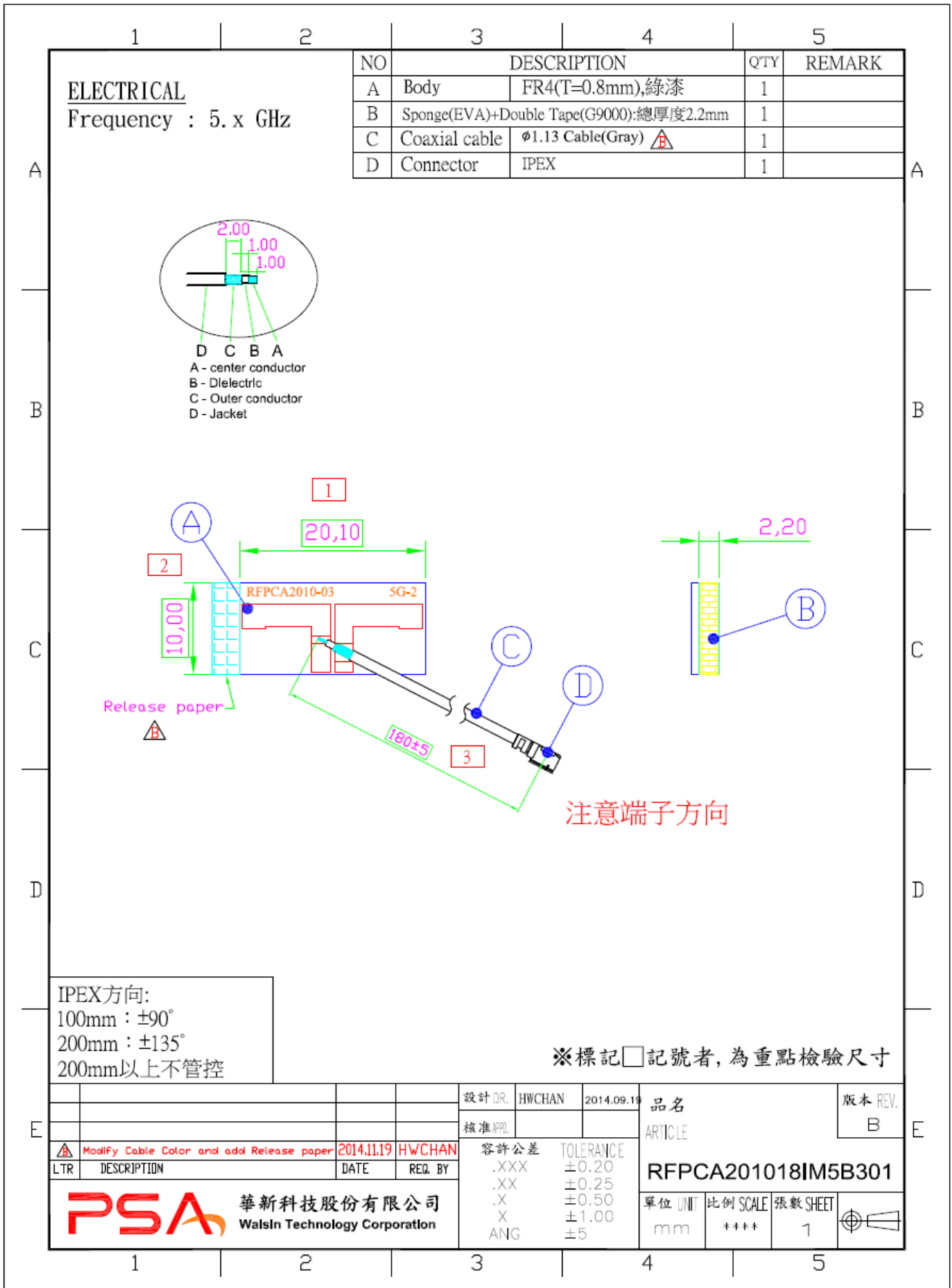
**MATERIAL TABLE**

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	2010	18	I	M	5	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.: 2010 Length 20.1mm, Width 10mm	2 digits for cable length  e.g.: 18 Cable Length:18cm	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



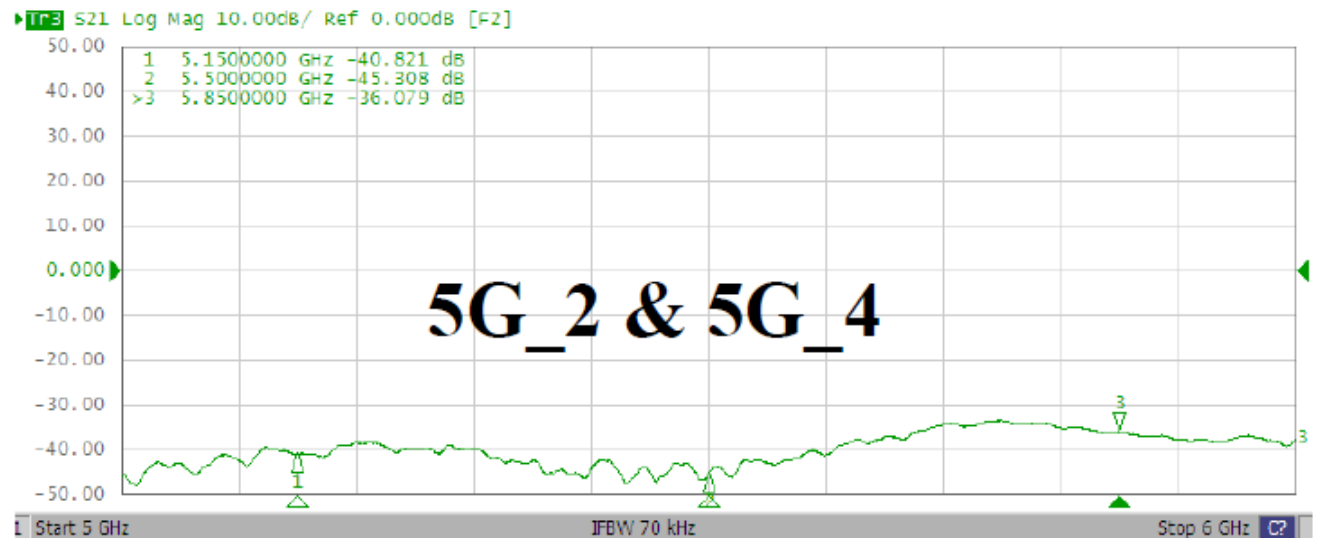
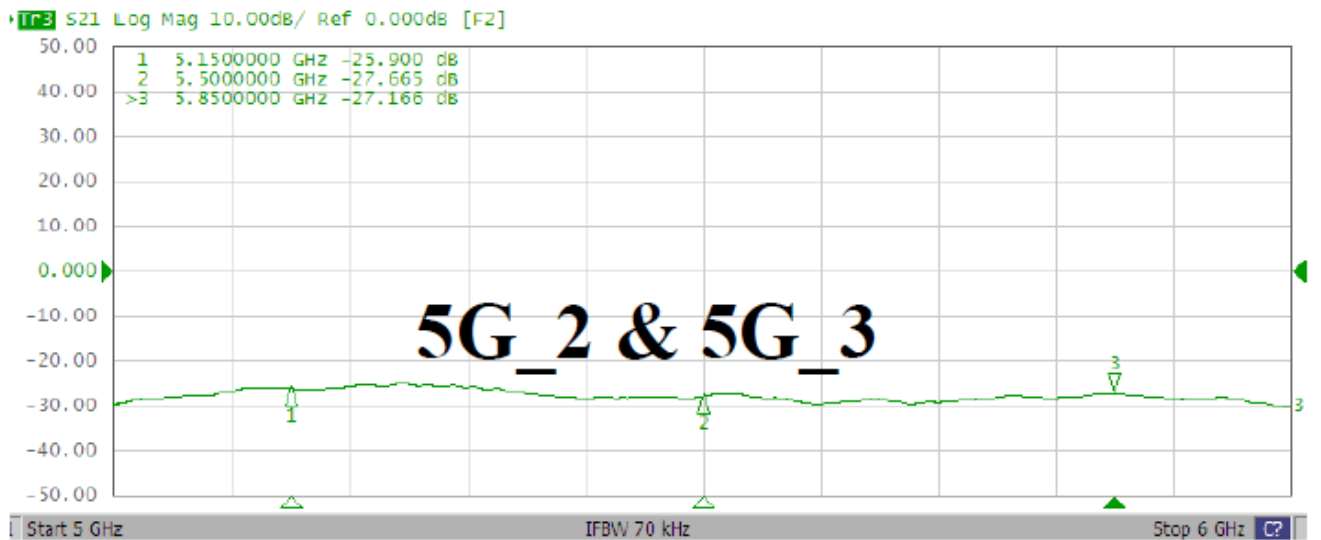
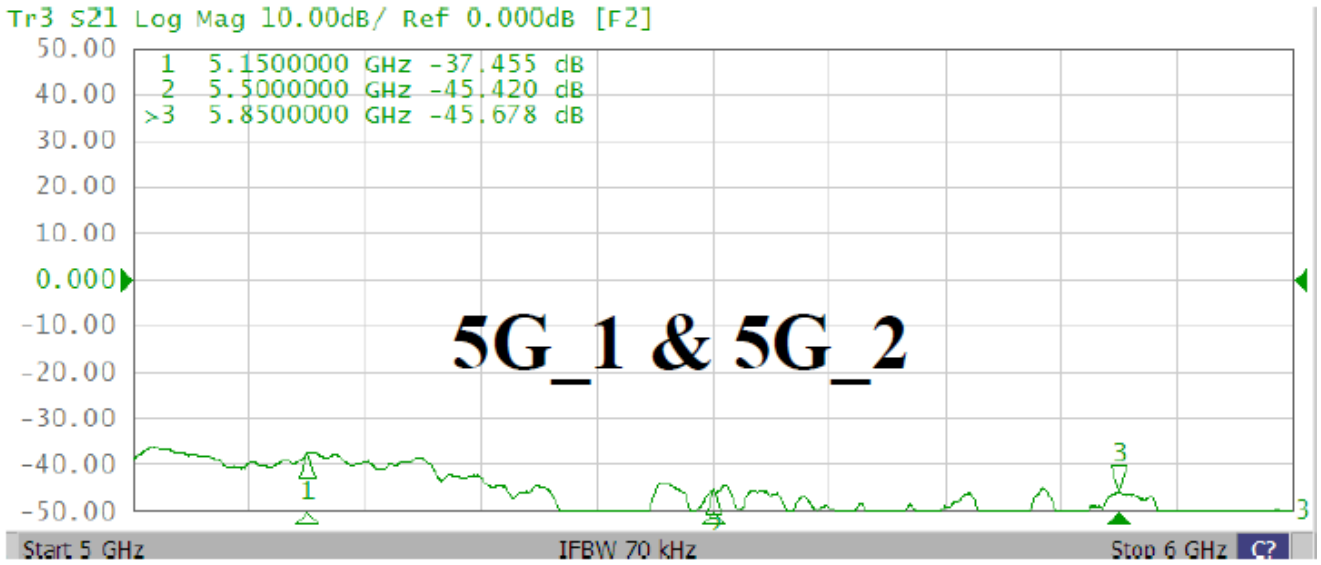
# Test Report

## ELECTRICAL CHARACTERISTICS

### Return Loss

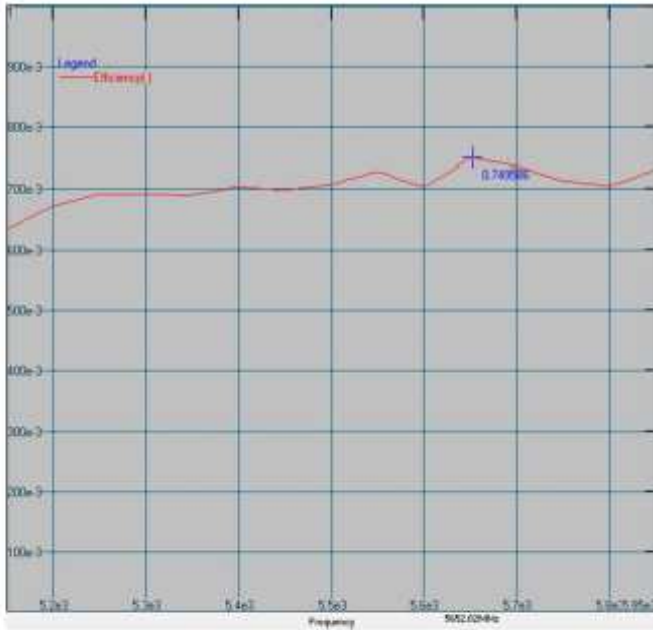


### Isolation

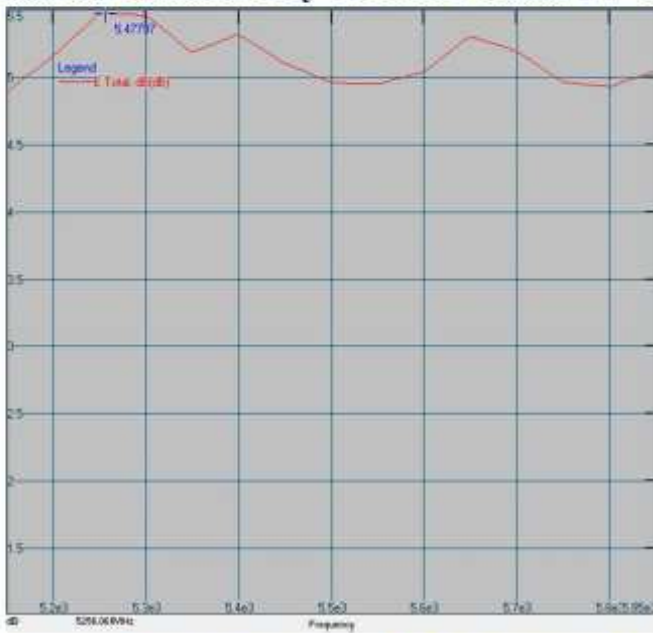


## Antenna Efficiency & Peak Gain

5150~5850 MHz



**Maximum Efficiency at 5652 MHz : 74.9 %**



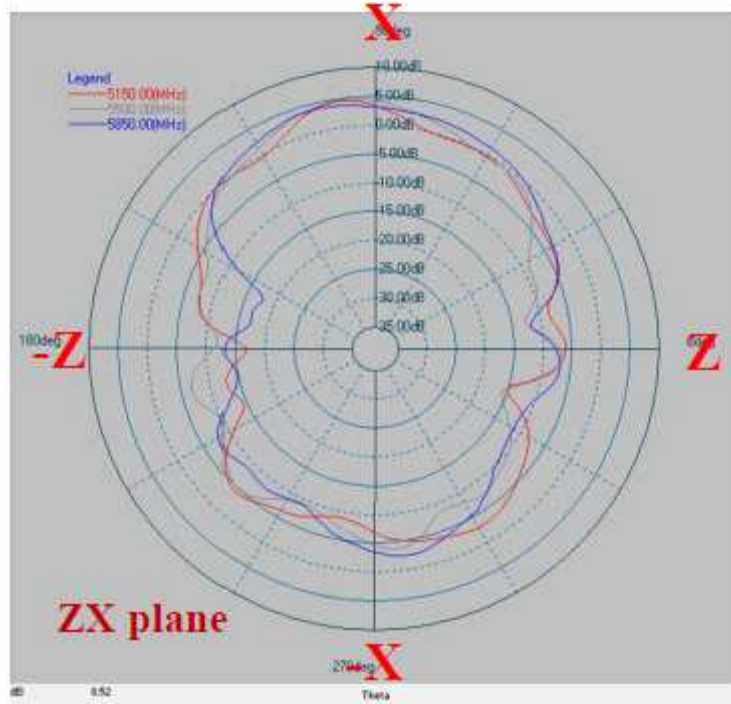
**Maximum Peak Gain at 5256 MHz : 5.47dBi**

# RADIATION PATTERN

5150~5850 MHz

Phi=0.00deg

Gain . dB

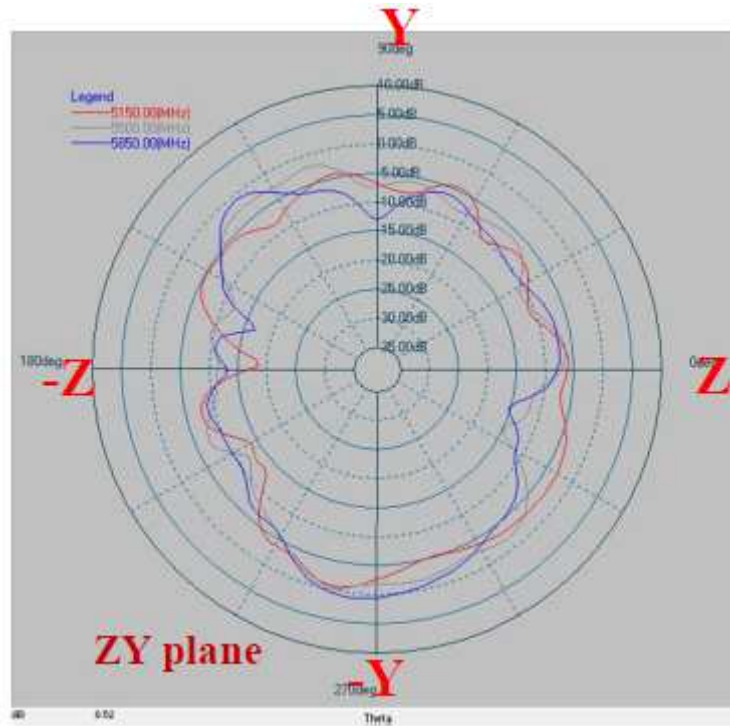




5150~5850 MHz

Phi=90.00deg

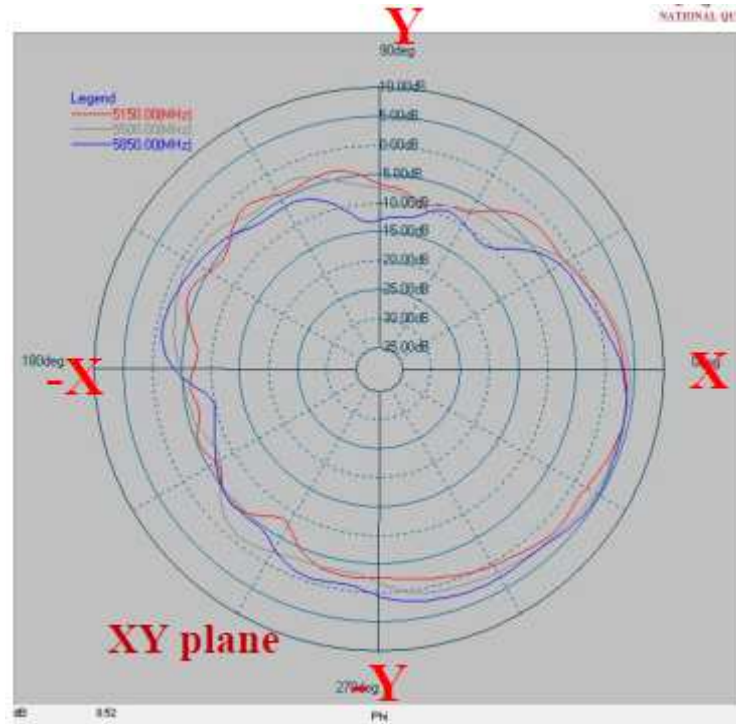
Gain . dB



**5150~5850 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]
5150	4.37	-2.89	-0.73	-5.82	4.09	-1.53
5500	4.54	-2.72	-1.03	-5.53	4.25	-0.66
5850	3.78	-2.43	0.61	-5.56	4.64	-0.76

# Package

華新科技股份有限公司						
RFPCA201018IM5B301 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						
<b>產品包裝圖示：</b>						
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						
	⇒		⇒		⇒	
<b>產品包裝規範：</b>						
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）						
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						
<div style="border: 1px solid black; padding: 5px;"> <p>1 Antenna Cable Assemble 1613</p> <p>2 RFCBA161317SA6B301 75BD010011 10000</p> <p>3 </p> <p>4 -A2090223-102113161556-1 5 75BD010011 6001</p> </div>		(NO 1.): Spec desc. (NO 2.): 料號 批號 數量(PN & LOT & QTY) (NO 3.): 盤點條碼(Inventory check barcode) (NO 4.): 列印時間-總張數(print system time-total piece this print) (NO 5.): 表示 BULK LOT (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\(华新科技\)](#)