



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

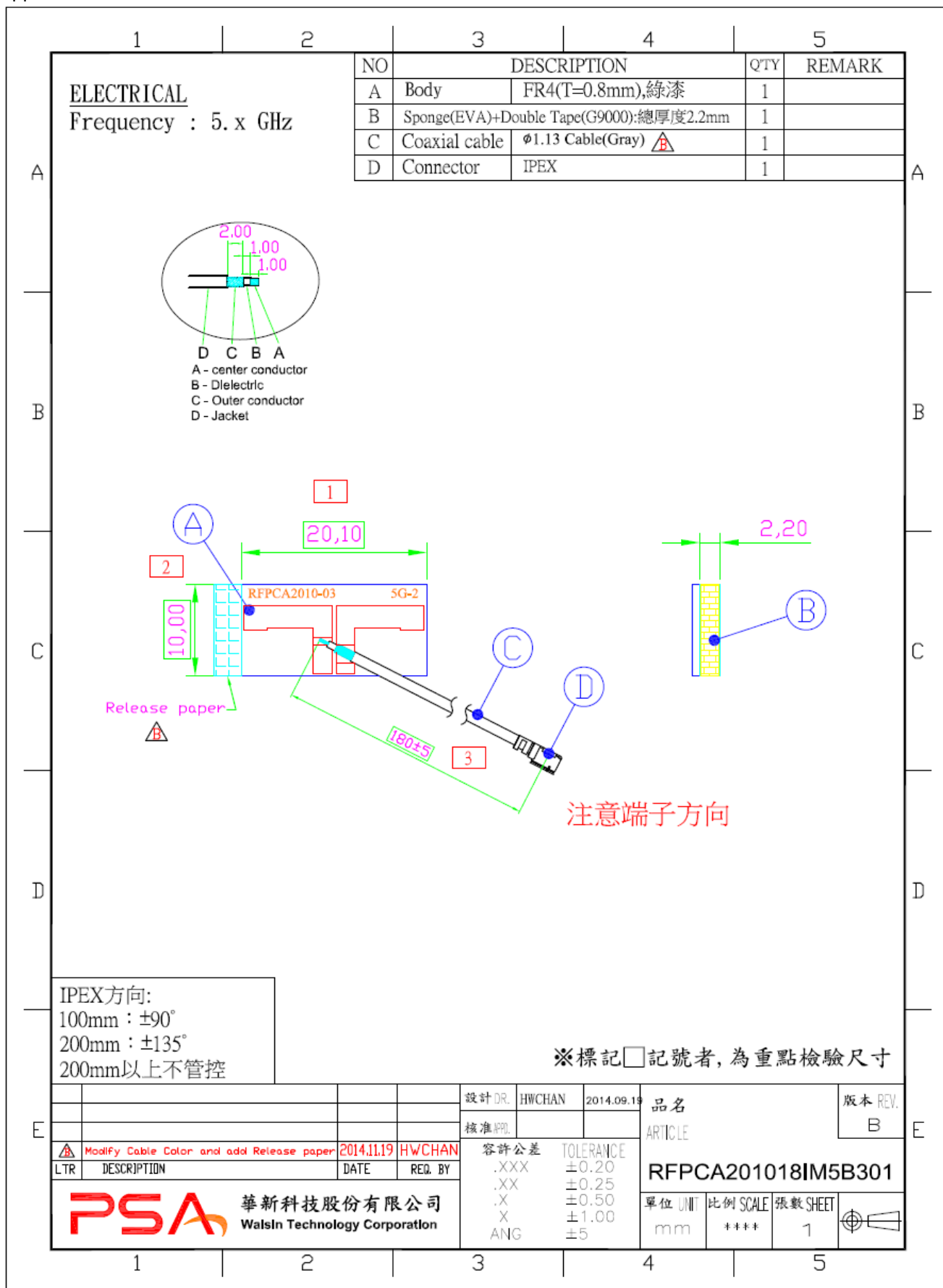
MATERIAL TABLE

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

Appendix A: Dimensions



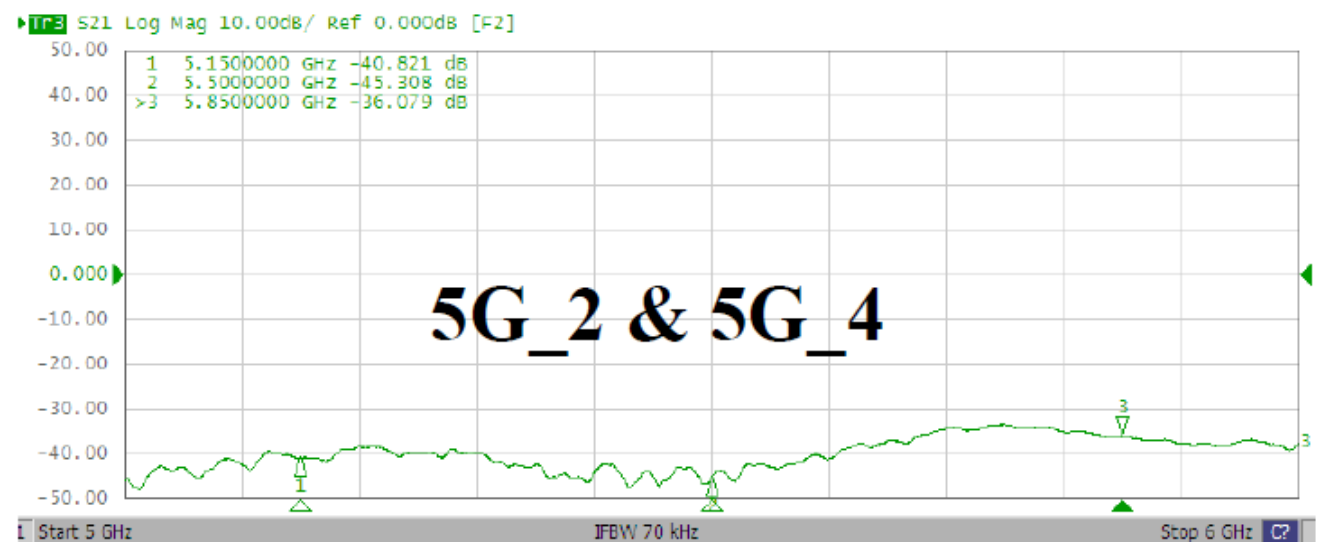
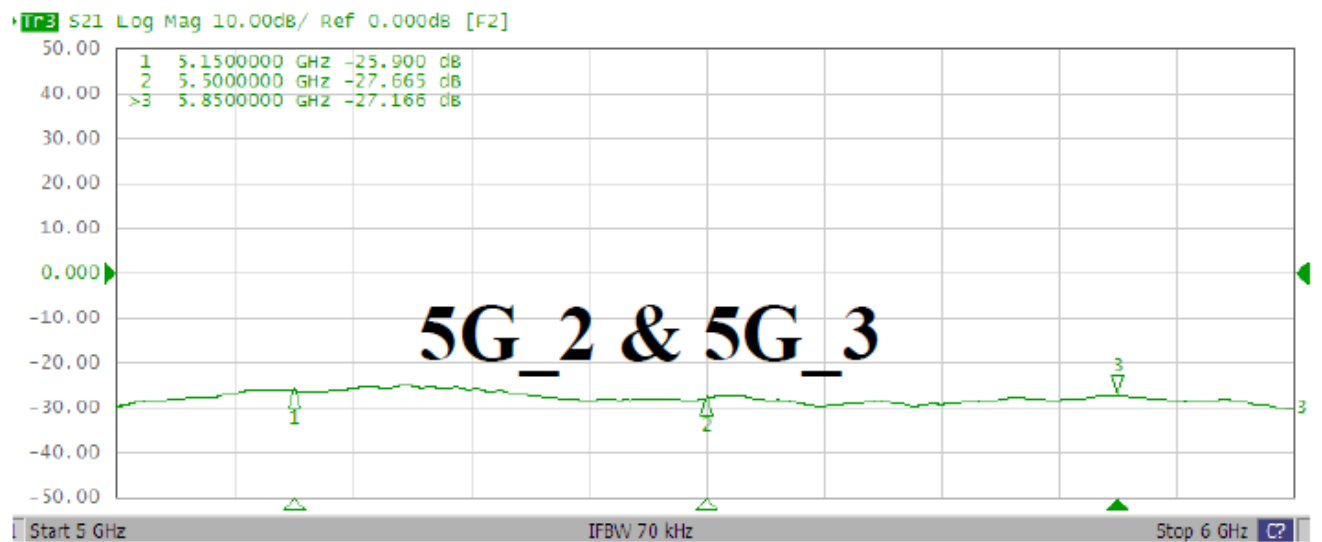
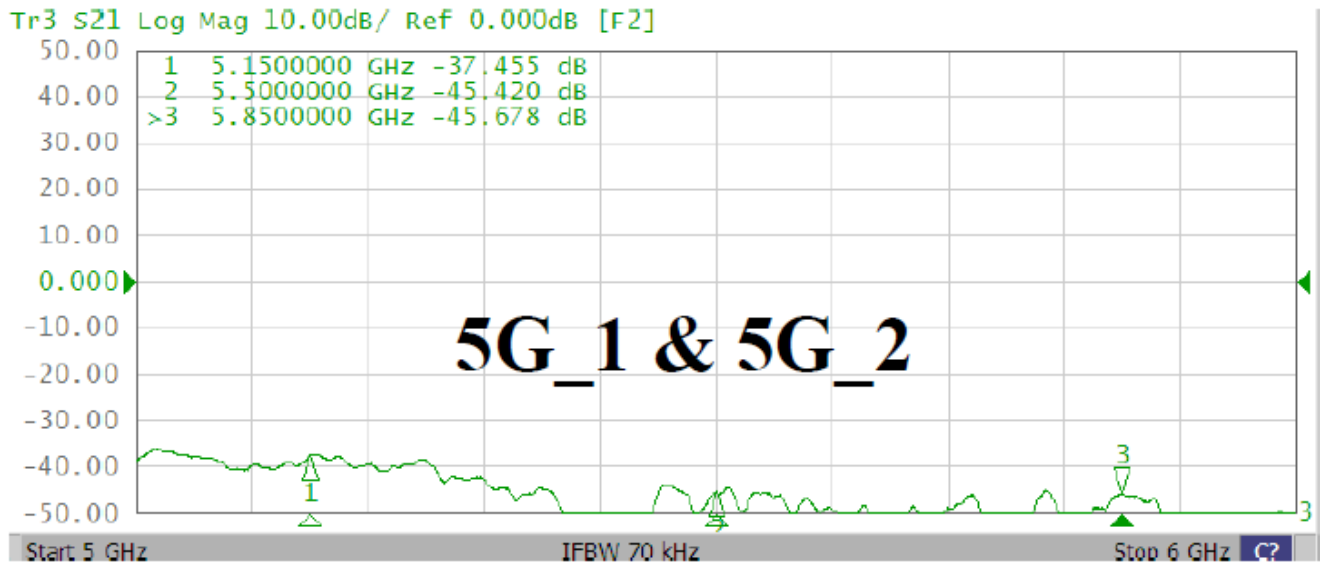
Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss

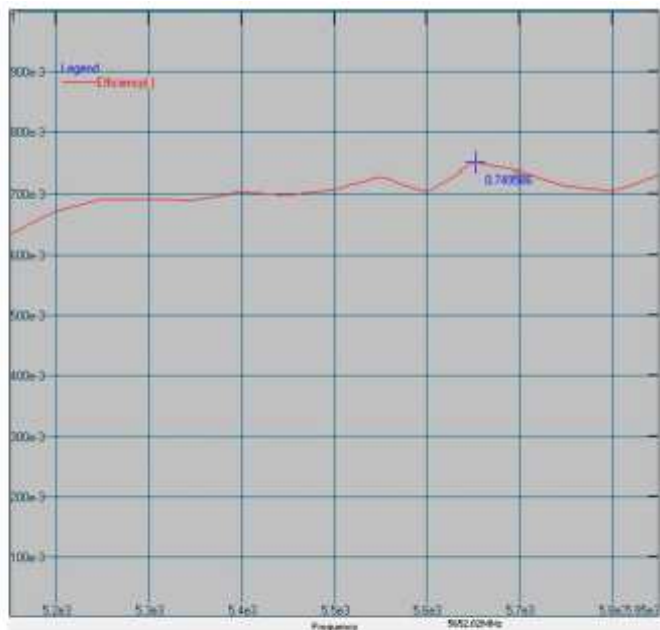


Isolation

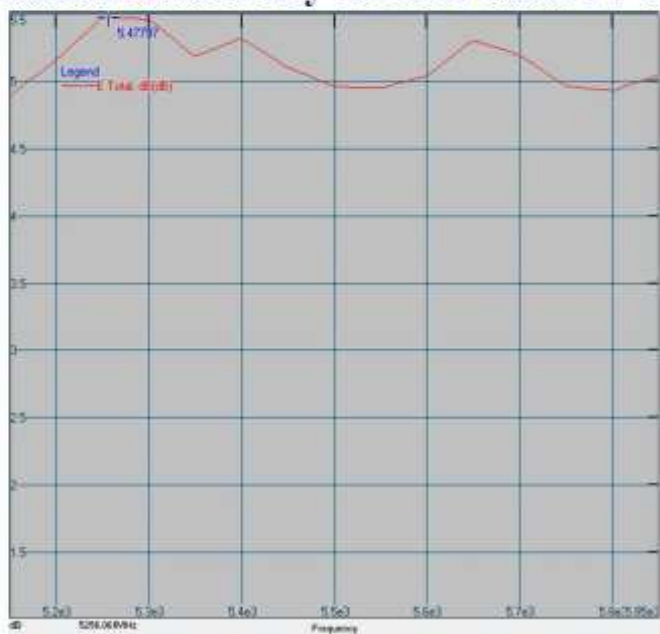


Antenna Efficiency & Peak Gain

5150~5850 MHz



Maximum Efficiency at 5652 MHz : 74.9 %



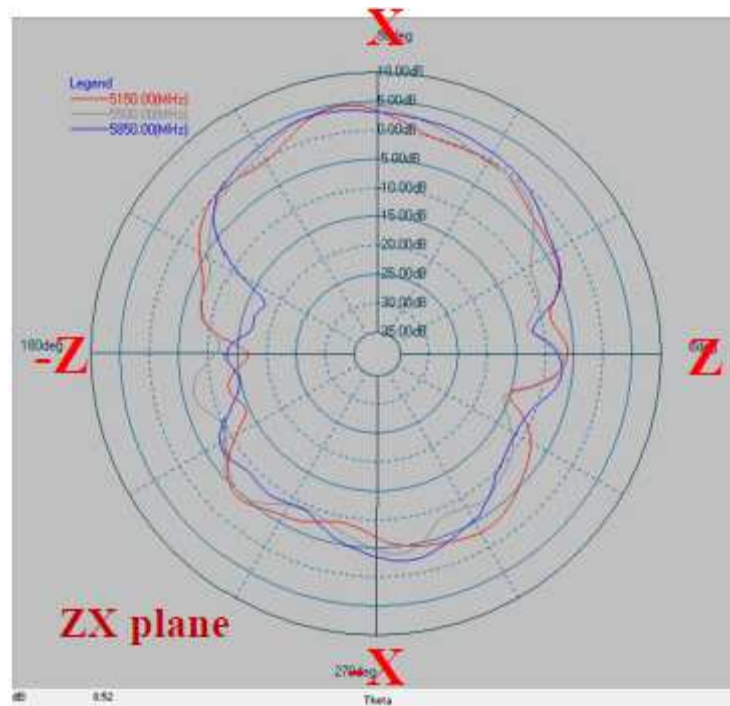
Maximum Peak Gain at 5256 MHz : 5.47dBi

RADIATION PATTERN

5150~5850 MHz

Phi=0.00deg

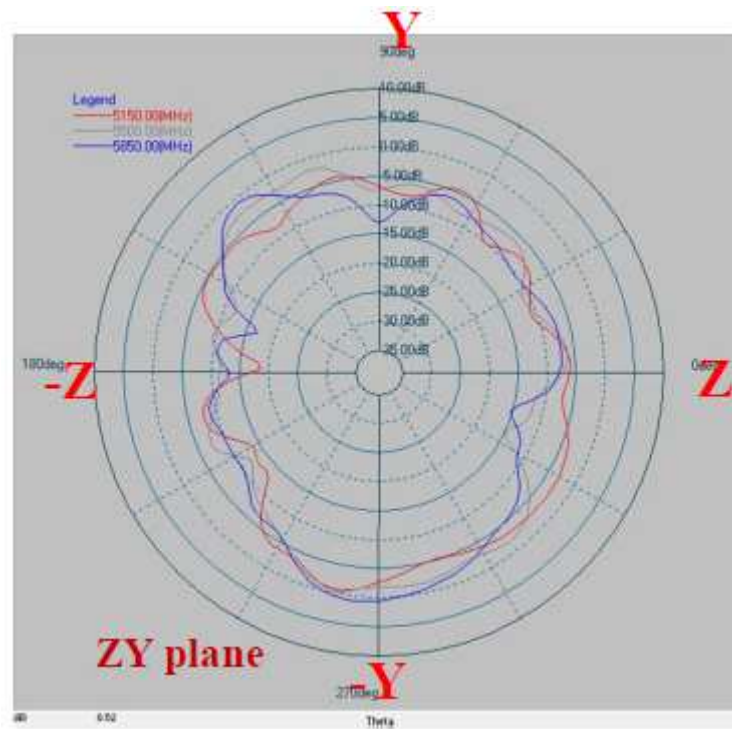
Gain . dB



5150~5850 MHz

Phi=90.00deg

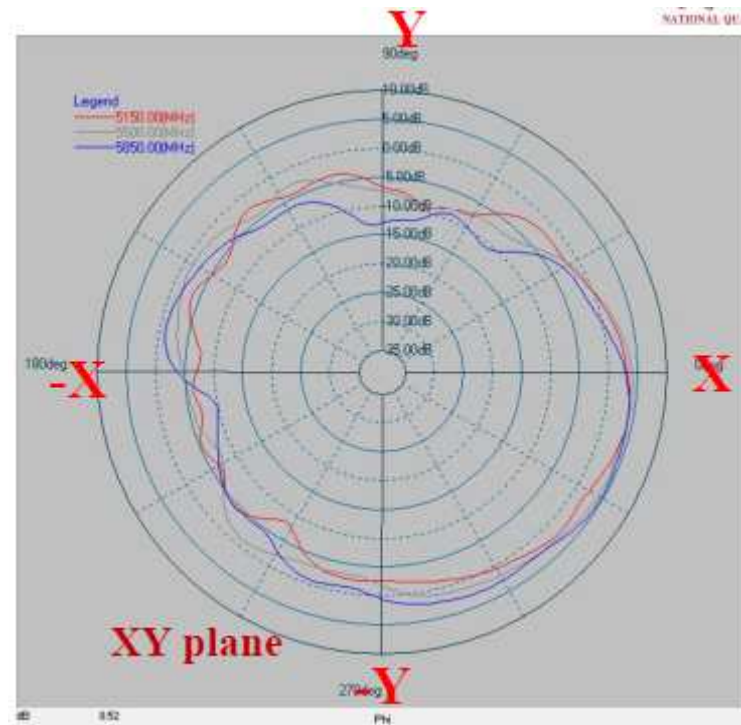
Gain . dB



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		
產品包裝圖示： 圖一 <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  ⇒  ⇒  </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 單pcs產品 PE袋 每10pcs一扎，每PE袋放5扎，PE袋需封口 </div>					
圖二 <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  ⇒  ⇒  </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 珍珠棉 外箱 珍珠棉放入外箱 </div>					
圖三 <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  ⇒  ⇒  ⇒  </div>					
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 (NO 1.): Spec desc. <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <div style="border: 2px solid green; padding: 2px;">1 Antenna Cable Assemble 1613</div> <div style="border: 2px solid green; padding: 2px;">2 RFCBA161317SA6B301 75BD010011 10000</div> <div style="border: 2px solid green; padding: 2px;">3 </div> <div style="border: 2px solid green; padding: 2px;">4 -A2090223-102113161556-1</div> <div style="border: 2px solid green; padding: 2px;">5 75BD010011</div> <div style="border: 2px solid green; padding: 2px;">6 001</div> </div> <div style="width: 50%;"> (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 </div> </div>					
核准：	何耀輝	審核：	張濤	制定：	印芸