

APPROVAL SHEET

Dipole ANTENNA

802.11 b/a Series

2.4/5.x GHz Dual Band Working Frequency

Halogens Free Product

P/N: RFDPA151300SBLB8G1

Customer : 友旺科技股份有限公司

Customer 's Part No. : M30-15130-000

Approval No. :

Issue Date :

友旺品名敘述:

ANTENNA RFDPA151300SBLB8G1 Gain 3dB/5dB 50ohm 157.5mm
Black Walsin LF

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

Version	Date	Description	Author
V01	2015 May.	New Release	PIPI

Approval sheet

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 / 5.X GHz (Note-1)
Gain	3 dBi ; 5dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω

*Note 1. Central Frequency should be defined after customers' application approval.

MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT

ORDERING RULE

RF	DPA	1513	00	S	B	L	B	8	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1513 Length 157.5mm, Width 13mm	2 digits for cable length e.g.: 00 None Cable	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: 5 GHz 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:φ0.81 3:φ1.13 6:RG316 7:φ1.37 8:RG178	01~99 series number

DIMENSIONS

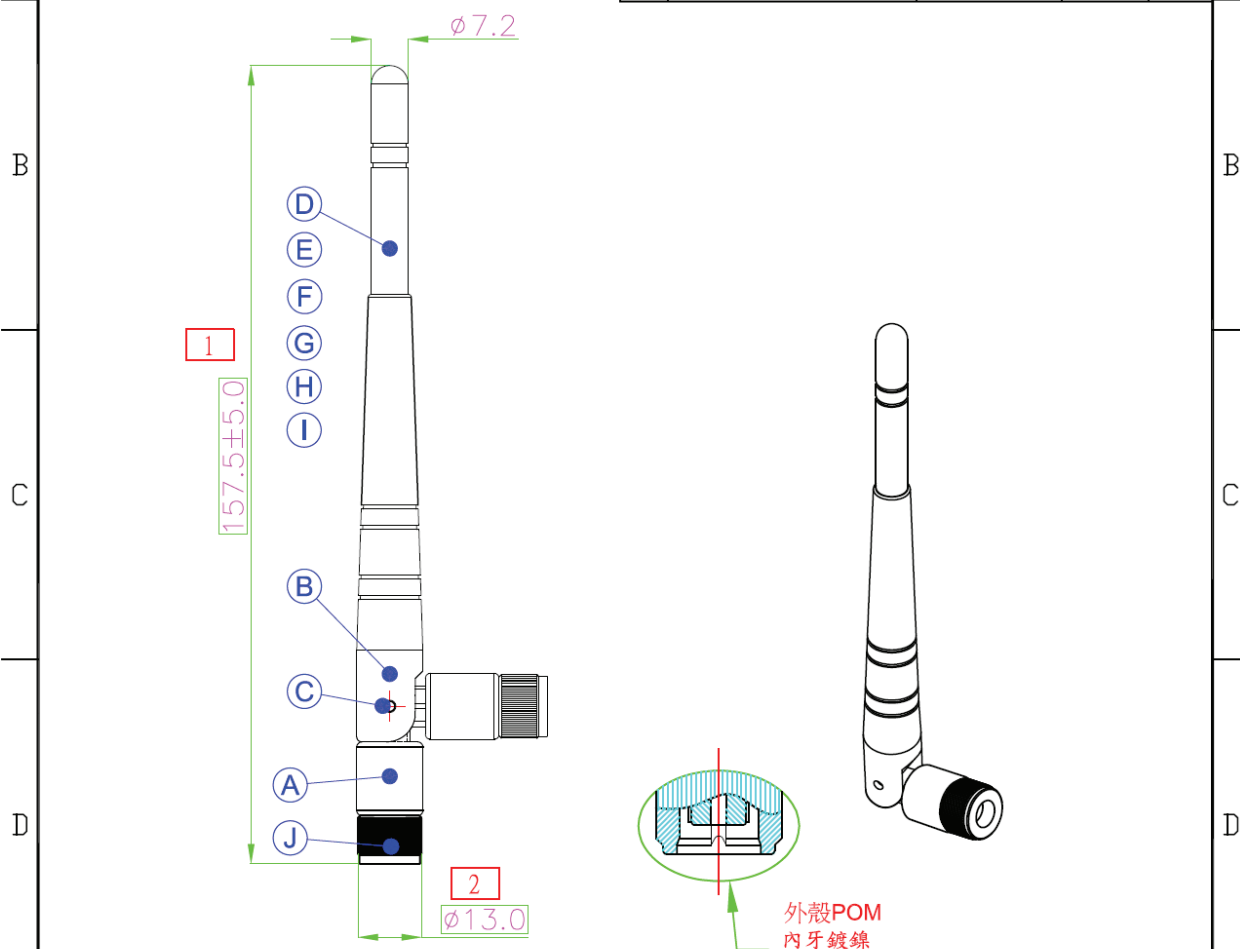
ELECTRICAL

Frequency: 2.4/5. x GHZ

Peak Gain: 2.4 GHz: 3dBi

5. x GHz: 5dBi

No.	DESCRIPTION	MAT'L	Color	Q'TY
A	Antenna Down Base	PC+PBT	Black	1
B	Antenna Up Base	PC	Black	1
C	Rivet	POM	Black	2
D	Antenna Cover	TPEE	Black	1
E	Up Brass Tube	Brass	---	1
F	Down Brass Tube	Brass	---	1
G	Spring	Phosphor Bronze	---	1
H	RG178 CABLE	---	Brown	1
I	TUBE	CB-HFT	Black	1
J	Reverse SMA Plug	---	Black	1

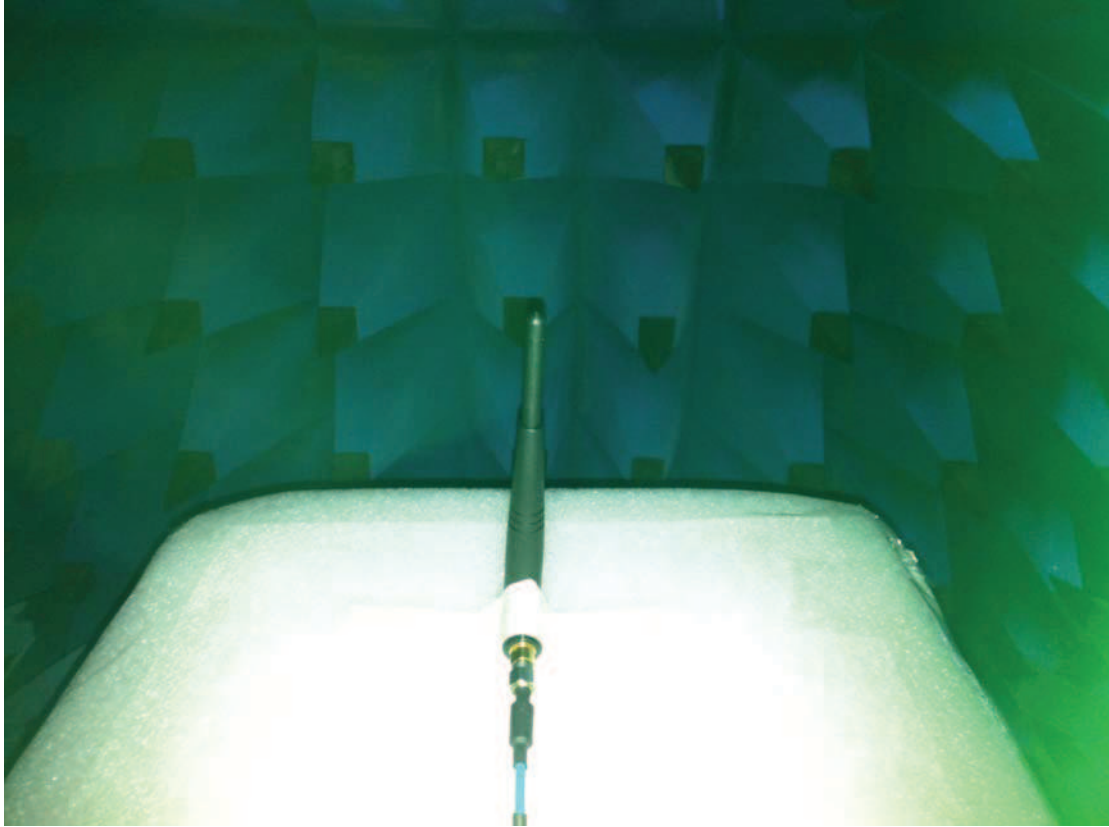


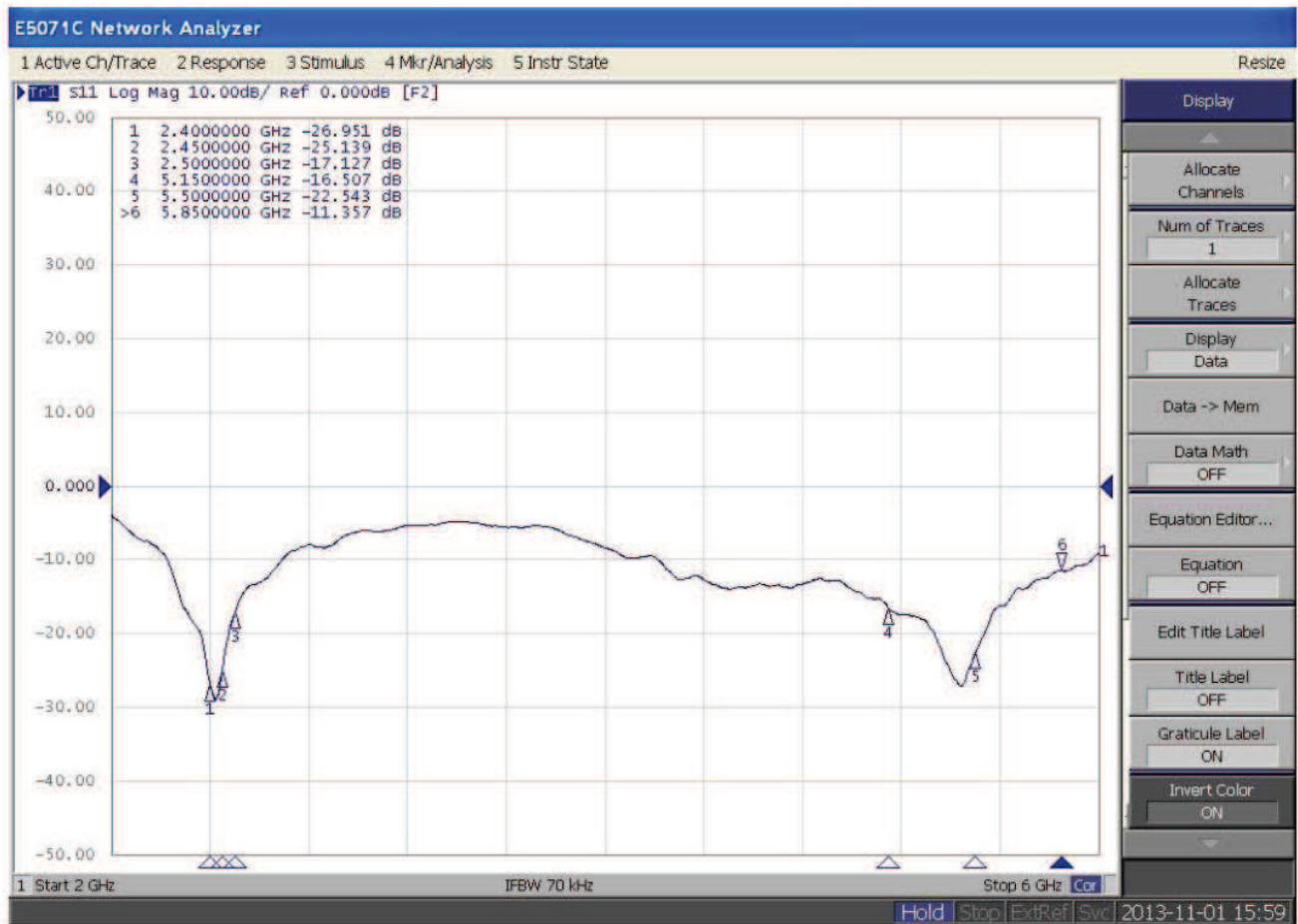
※標記□記號者，為重點檢驗尺寸

E					設計 DR.	HWCHAN	2013.08.29	品名			版本 REV.			
					核准 APP.			ARTICLE			A			
					容許公差			TOLERANCE			RFDPA151300SBLB8G1			
					.XXX			±0.20						
					.XX			±0.35						
				.X			±0.50							
					X			±1.00			單位 UNIT	比例 SCALE	張數 SHEET	
					ANG			±5						
	LTR	DESCRIPTION		DATE	REQ. BY	PSA 華新科技股份有限公司 Walsin Technology Corporation								

Test Report

■ Experimental Setup



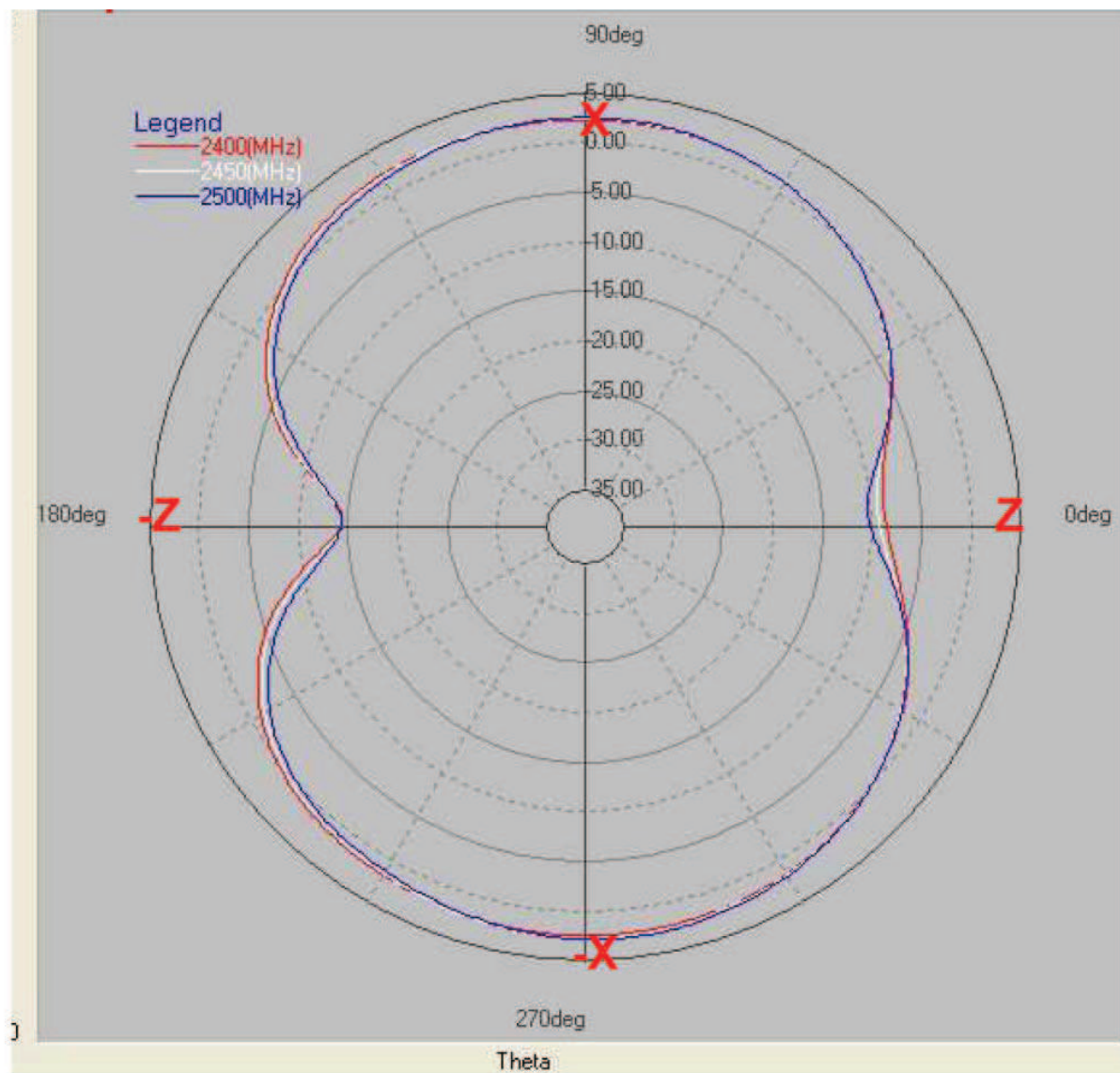
ELECTRICAL CHARACTERISTICS**Return Loss**

RADIATION PATTERN

2400~2500 MHz

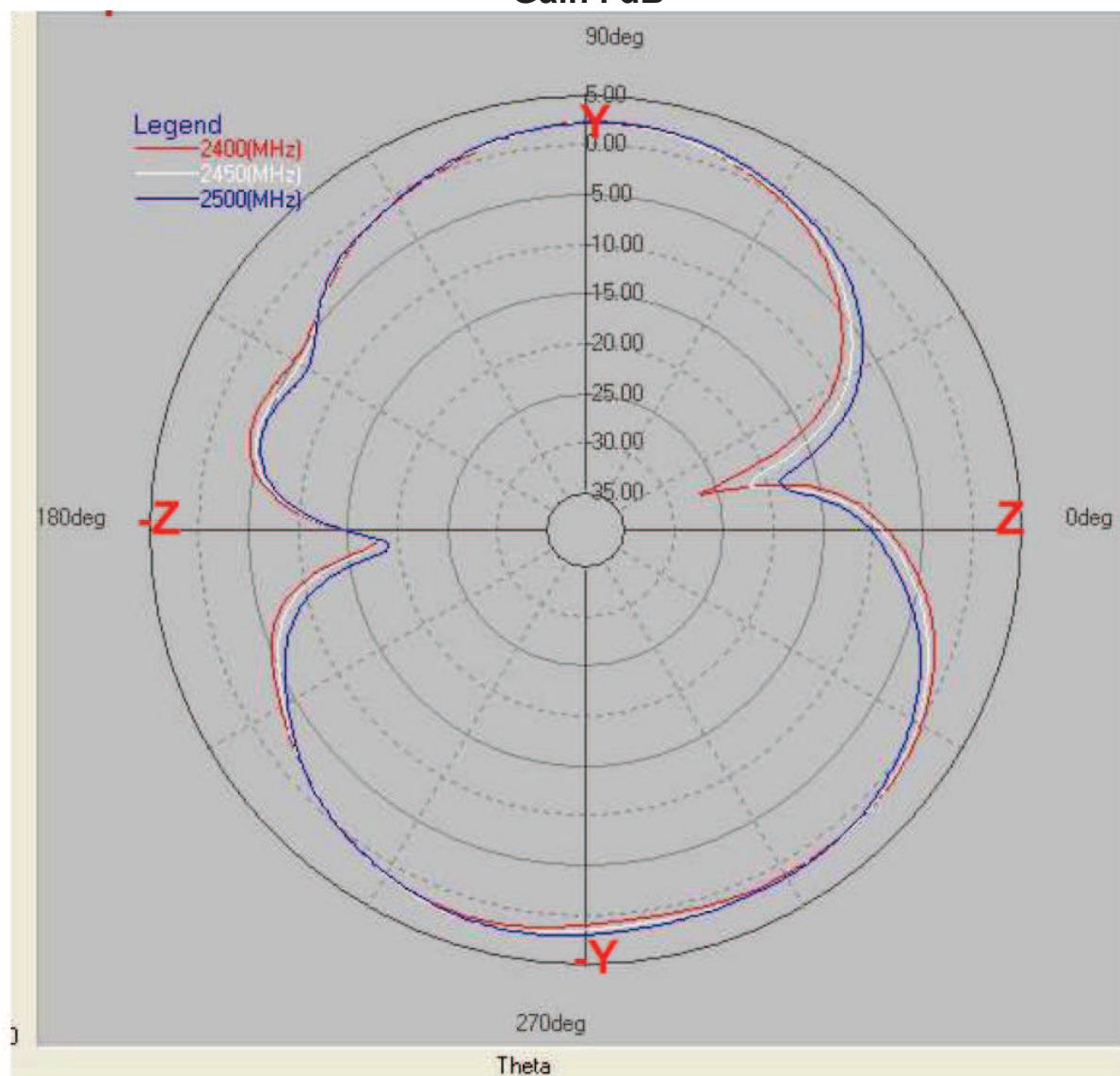
Phi=0.00deg

Gain . dB



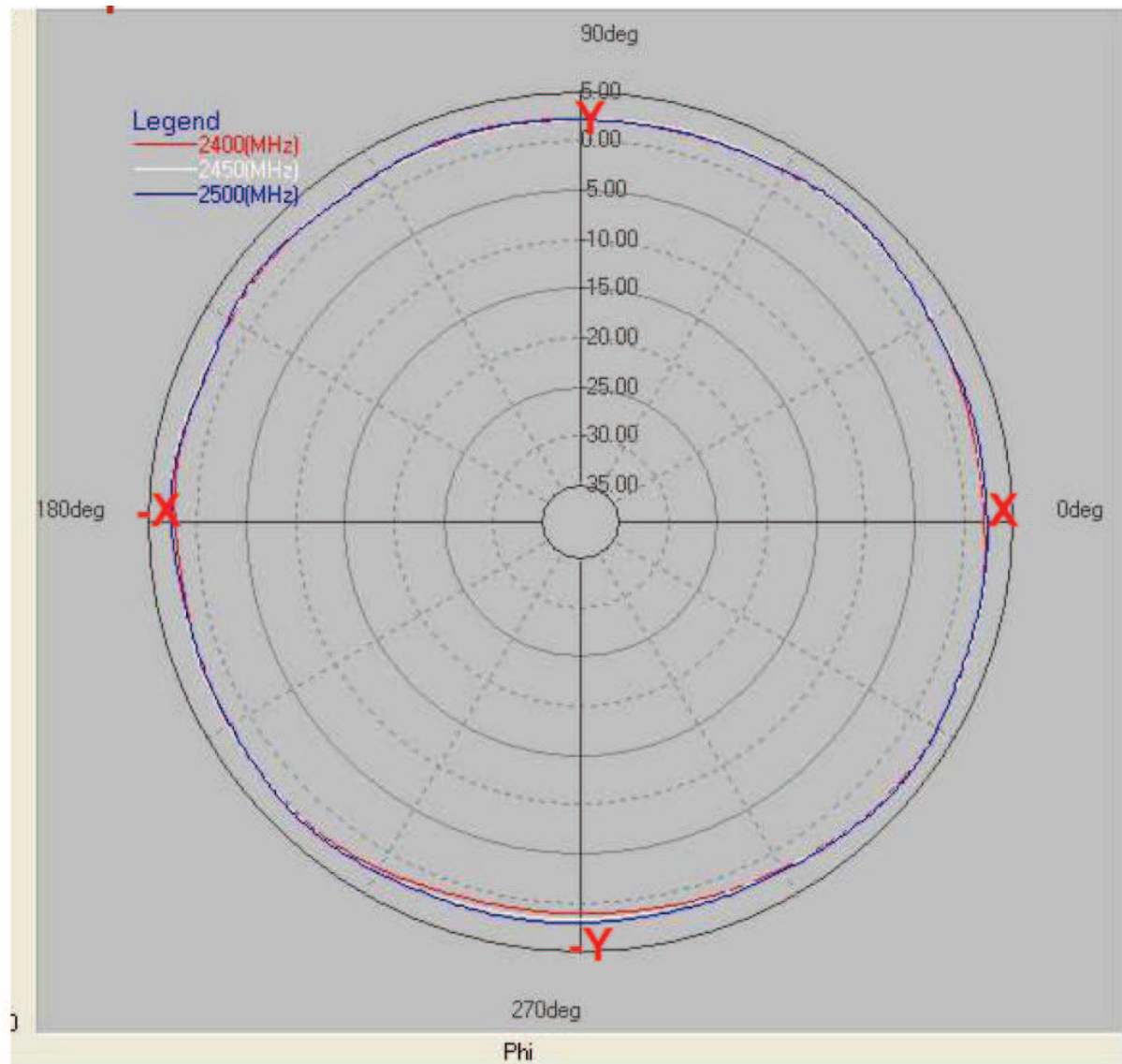
Layer	Max value	Min value	Average
2400(MHz)	2.29	-14.39	-0.06
2450(MHz)	2.58	-14.39	-0.08
2500(MHz)	2.73	-14.33	-0.19

Phi=90.00deg
Gain . dB



Layer	Max value	Min value	Average
2400(MHz)	2.20	-27.55	-1.05
2450(MHz)	2.09	-21.76	-0.97
2500(MHz)	2.11	-19.03	-0.94

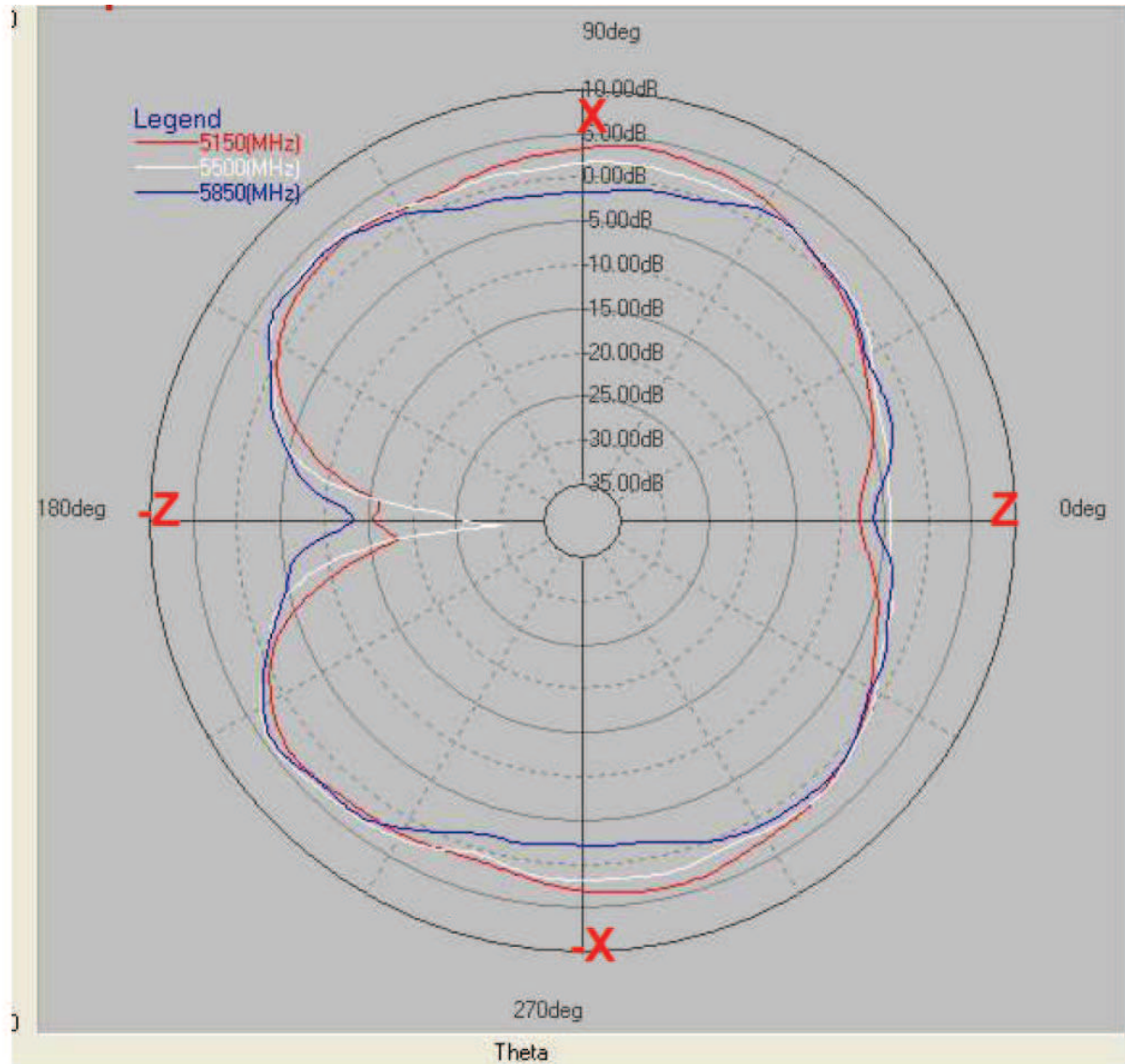
Theta=90.00deg
Gain . dB



Layer	Max value	Min value	Average
2400(MHz)	3.03	0.89	2.13
2450(MHz)	3.11	1.41	2.26
2500(MHz)	3.18	1.76	2.30

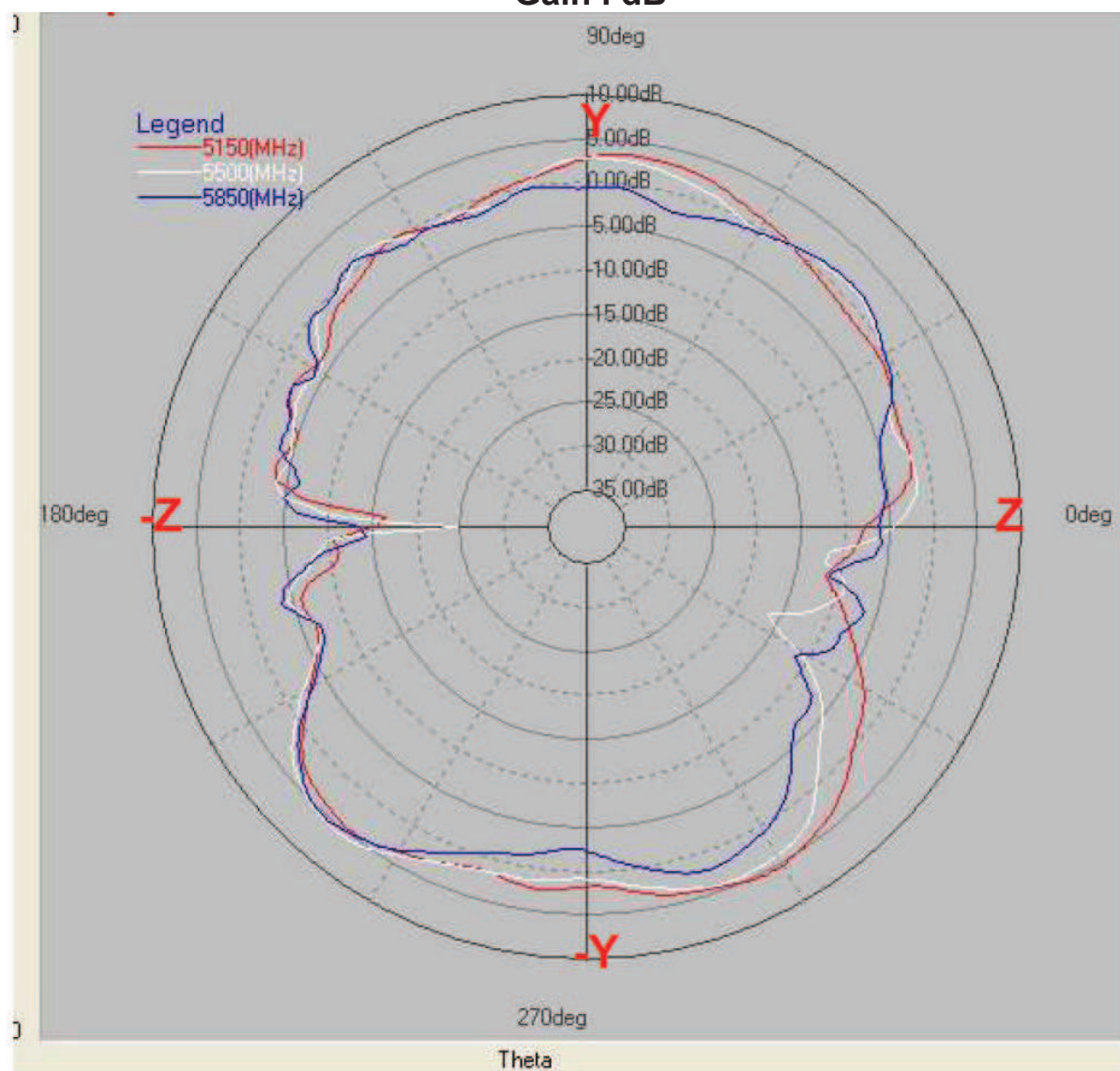
5150~5850 MHz

Phi=0.00deg
Gain . dB



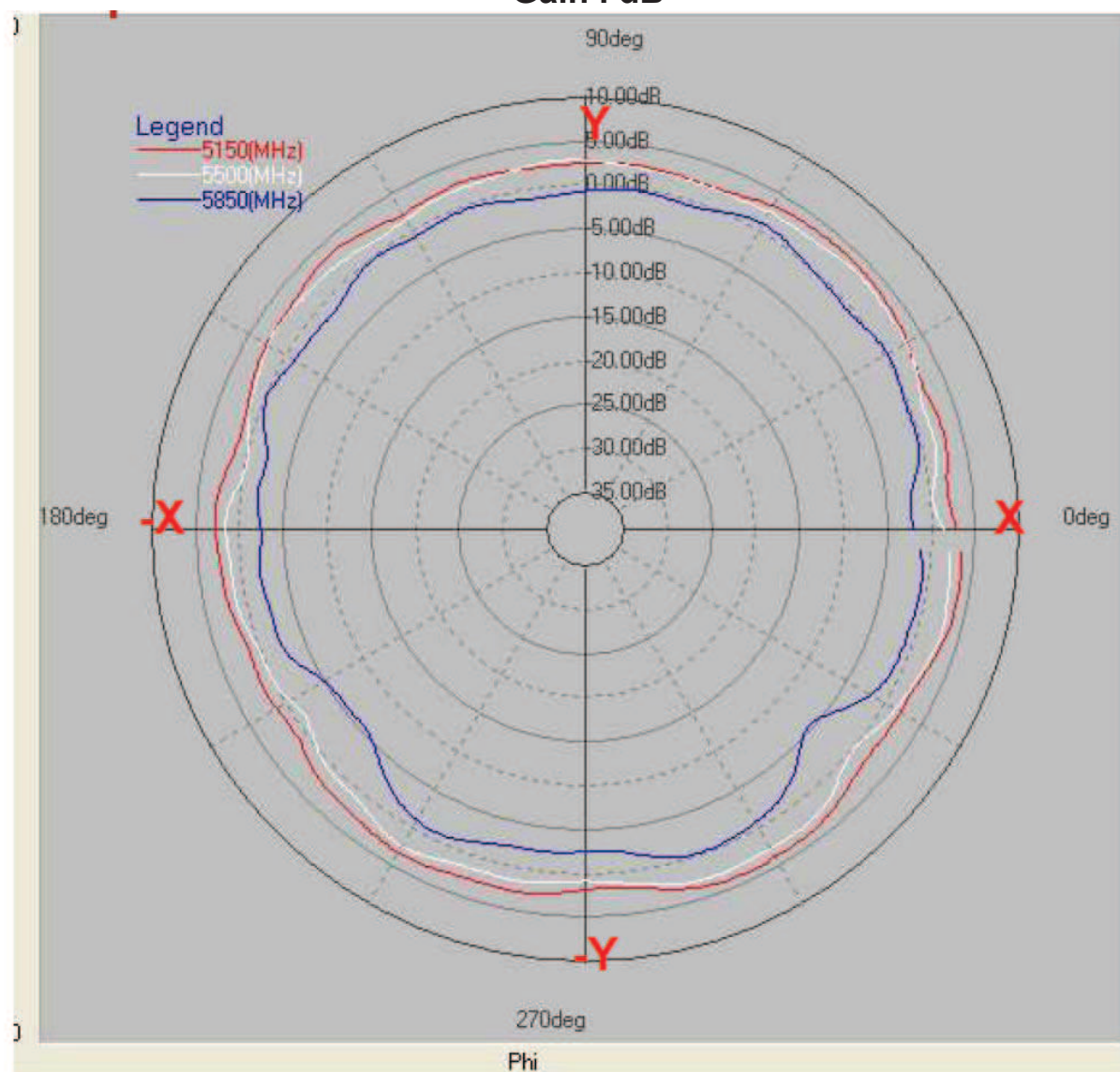
Layer	Max value	Min value	Average
5150(MHz)	3.73 dB	-18.38 dB	0.26 dB
5500(MHz)	4.32 dB	-30.78 dB	0.31 dB
5850(MHz)	3.98 dB	-13.58 dB	-0.62 dB

Phi=90.00deg
Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	5.17 dB	-16.65 dB	-0.22 dB
5500(MHz)	5.44 dB	-24.82 dB	-0.49 dB
5850(MHz)	5.12 dB	-14.41 dB	-1.62 dB

Theta=90.00deg
Gain . dB



Layer	Max value	Min value	Average
5150(MHz)	3.80 dB	0.90 dB	2.57 dB
5500(MHz)	3.13 dB	-1.07 dB	1.70 dB
5850(MHz)	0.82 dB	-5.67 dB	-1.43 dB

Package



蘇州華科電子有限公司

制品規格書

版別：1.0.0

客戶		品名	RFDPA151300SAXB8G1	發行編號		頁次	1/1
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產品包裝圖示：

圖示一

單PCS產品 PE袋 10pcs產品包裝

圖示二

珍珠棉 外箱 珍珠棉放進外箱中

圖示三

產品包裝說明：

- 1.將每10PCS產品裝入1PE袋中(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600pcs產品，上下各放1片珍珠棉。
- 4.包裝材料規格
 - 4.1 PE袋規格: 長250*寬100*厚度0.05mm
 - 4.2 珍珠棉規格: 長330*寬330*高8mm
 - 4.3 外箱規格: 長350*寬350*高190mm
- 5.產品標籤需貼到最小包裝

FORM NO :