

Dipole Antenna

– RFDPA171300SBAB8G1 for Single Band 2.4 GHz Application

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Gain	5 dBi
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

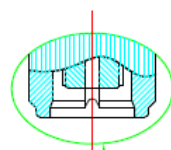
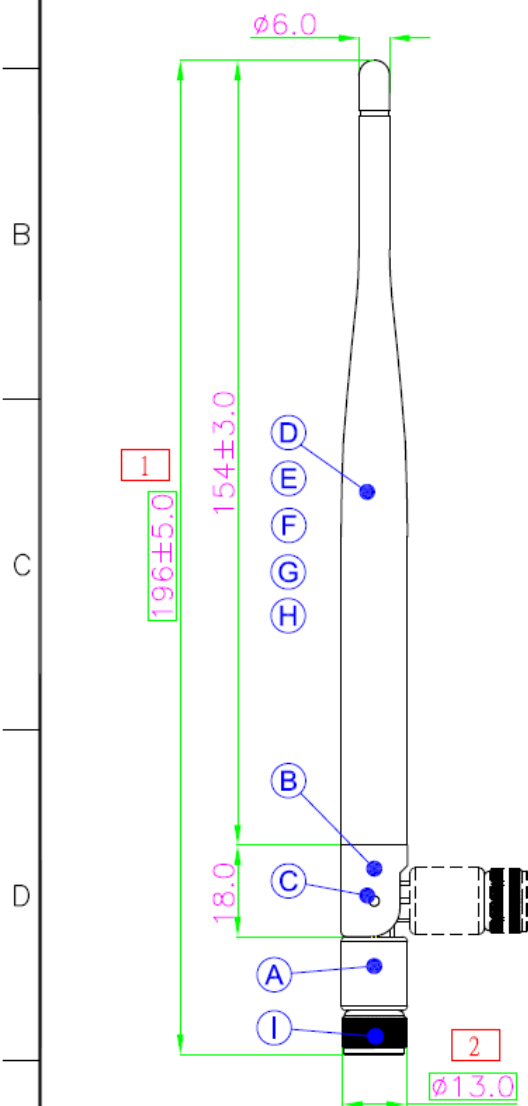
RF	DPA	1713	00	S	B	A	B	8	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width 13mm	2 digits for 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: Ø0.81 3: Ø1.13 6: RG316 7: Ø1.37 8: RG178	01~99 series number

DIMENSIONSELECTRICAL

Frequency: 2.4 GHZ

Peak Gain: 5dBi

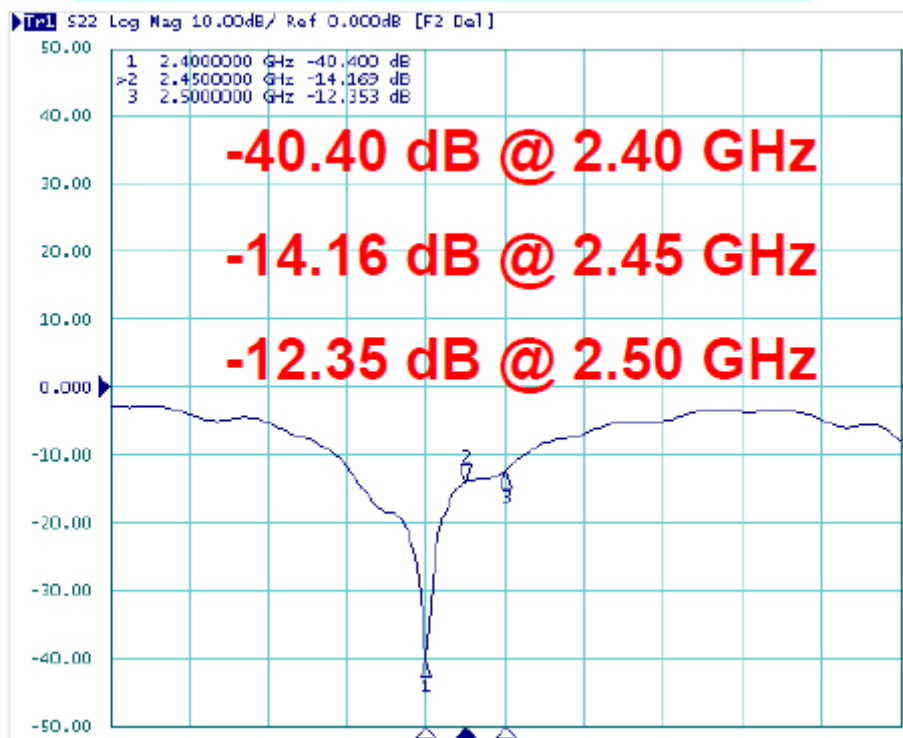
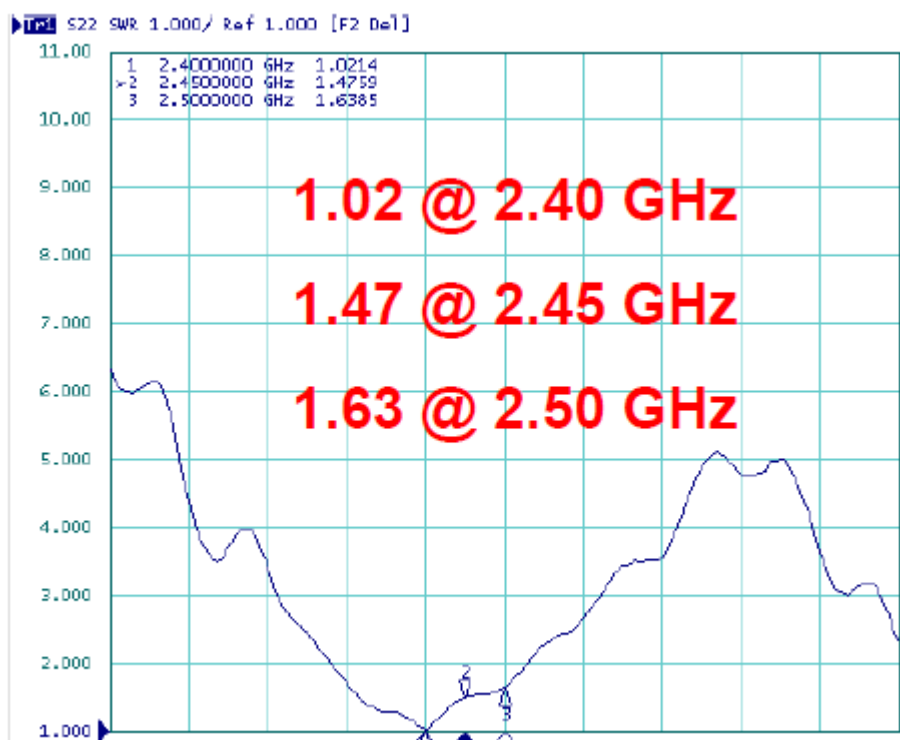
No.	DESCRIPTION	MAT'L	Color	Q'TY
A	Antenna Down Base	PC+PBT	Black	1
B	Antenna Up Base	PC	Black	1
C	Rivet	POM	Black	2
D	Antenna Cover	TPEE	Black	1
E	Brass Tube	Brass	—	1
F	Spring	Phosphor Bronze	—	1
G	RG178 CABLE	—	Brown	1
H	TUBE	CB-HFT	Black	1
I	Reverse SMA Plug	—	Black	1



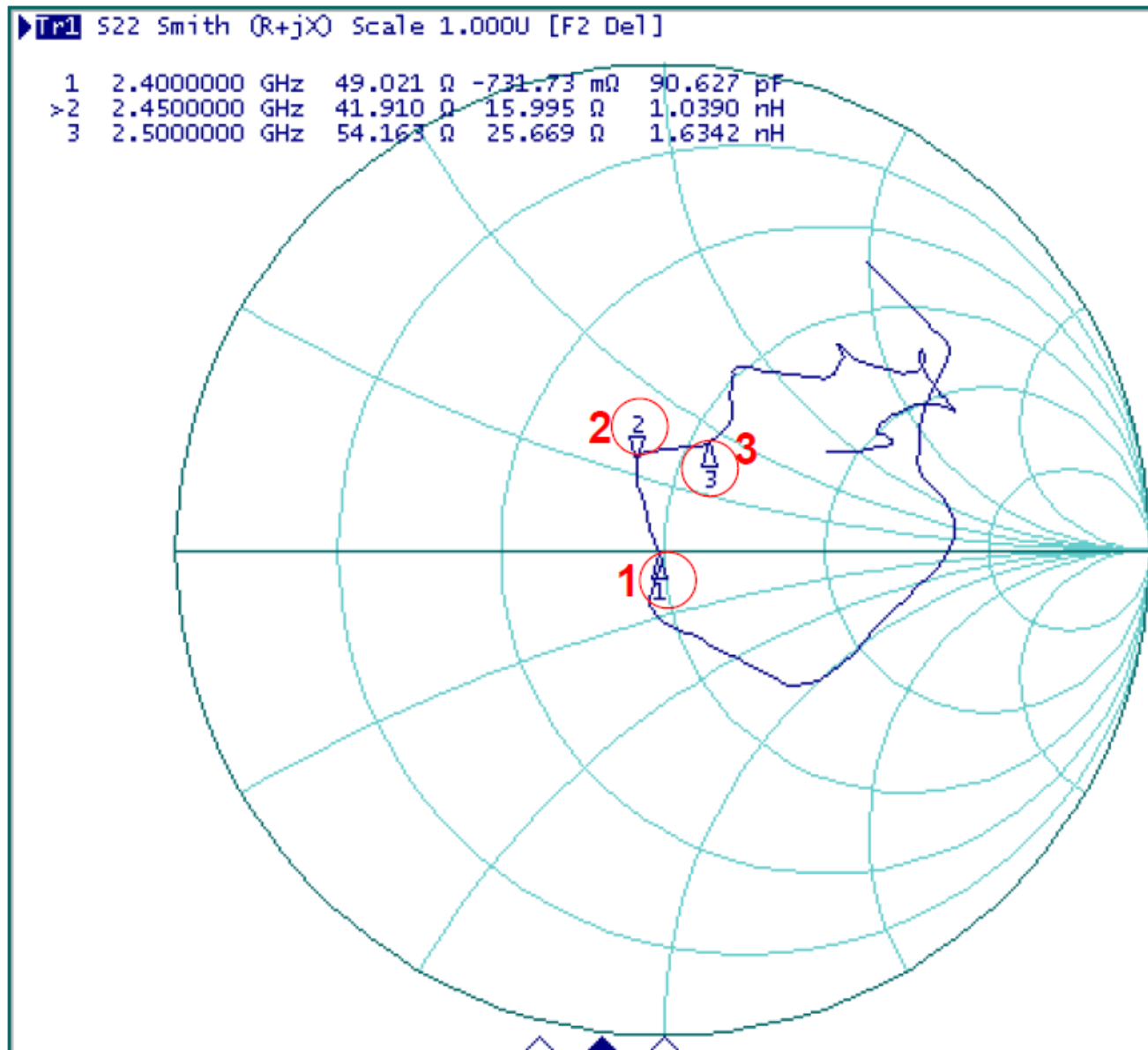
外殼POM
內牙鍍鎳

※標記□記號者，為重點檢驗尺寸

E					設計 DR.	HWCHAN	2013.08.29	品名 ARTICLE	版本 REV. A	
					核准 APP.					
					容許公差	TOLERANCE		RFDPA171300SBAB8G1		
	LTR	DESCRIPTION	DATE	REQ. BY	.XXX	±0.20				
				.XX	±0.35					
				.X	±0.50		單位 UNIT	比例 SCALE	張數 SHEET	
				X	±1.00		mm	****	1	
				ANG	±5					
 華新科技股份有限公司 Walsin Technology Corporation										

Test Report**ELECTRICAL CHARACTERISTICS****Return Loss****VSWR**

Smith Chart



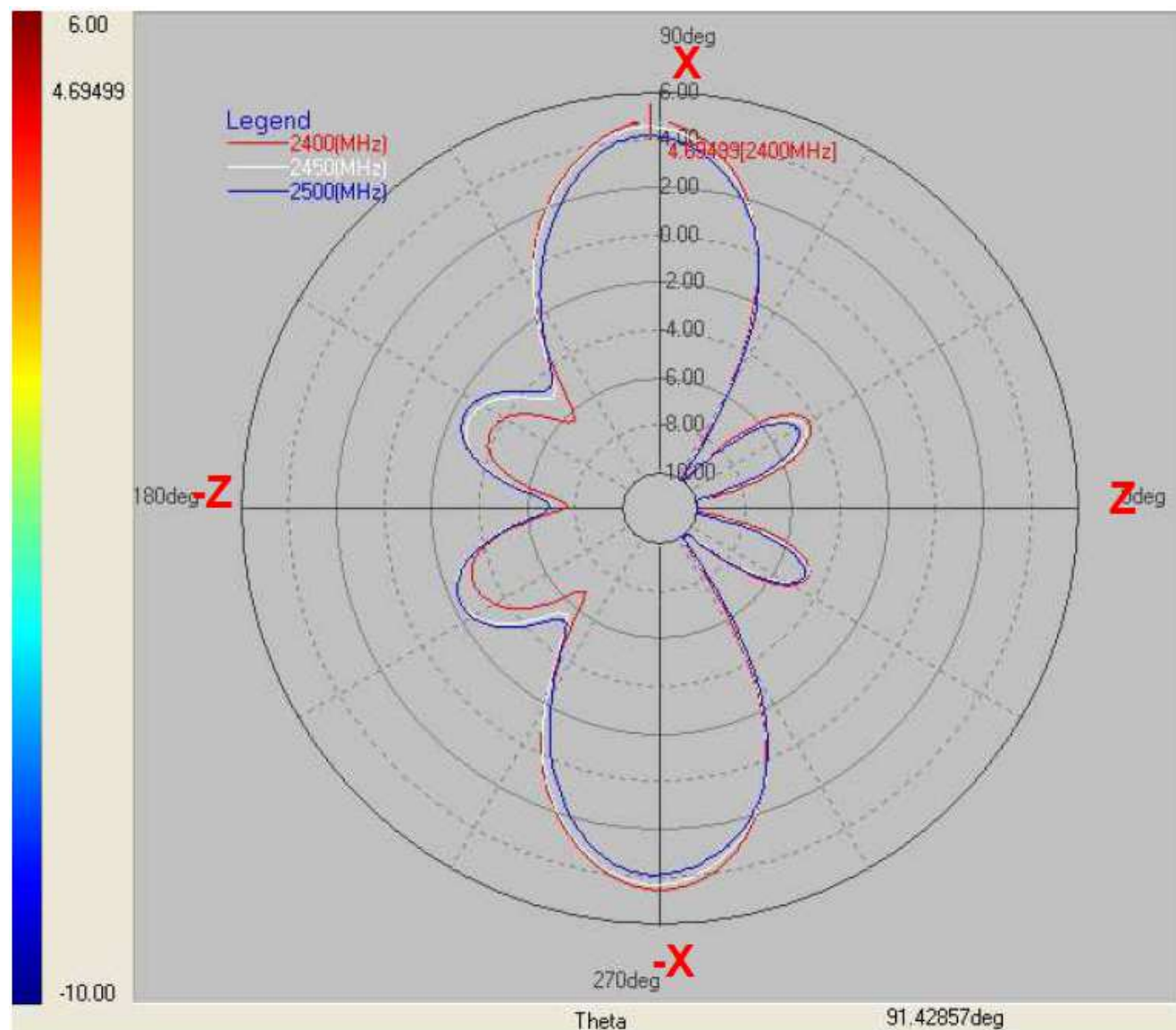
■ RADIATION PATTERN

2400~2500 MHz

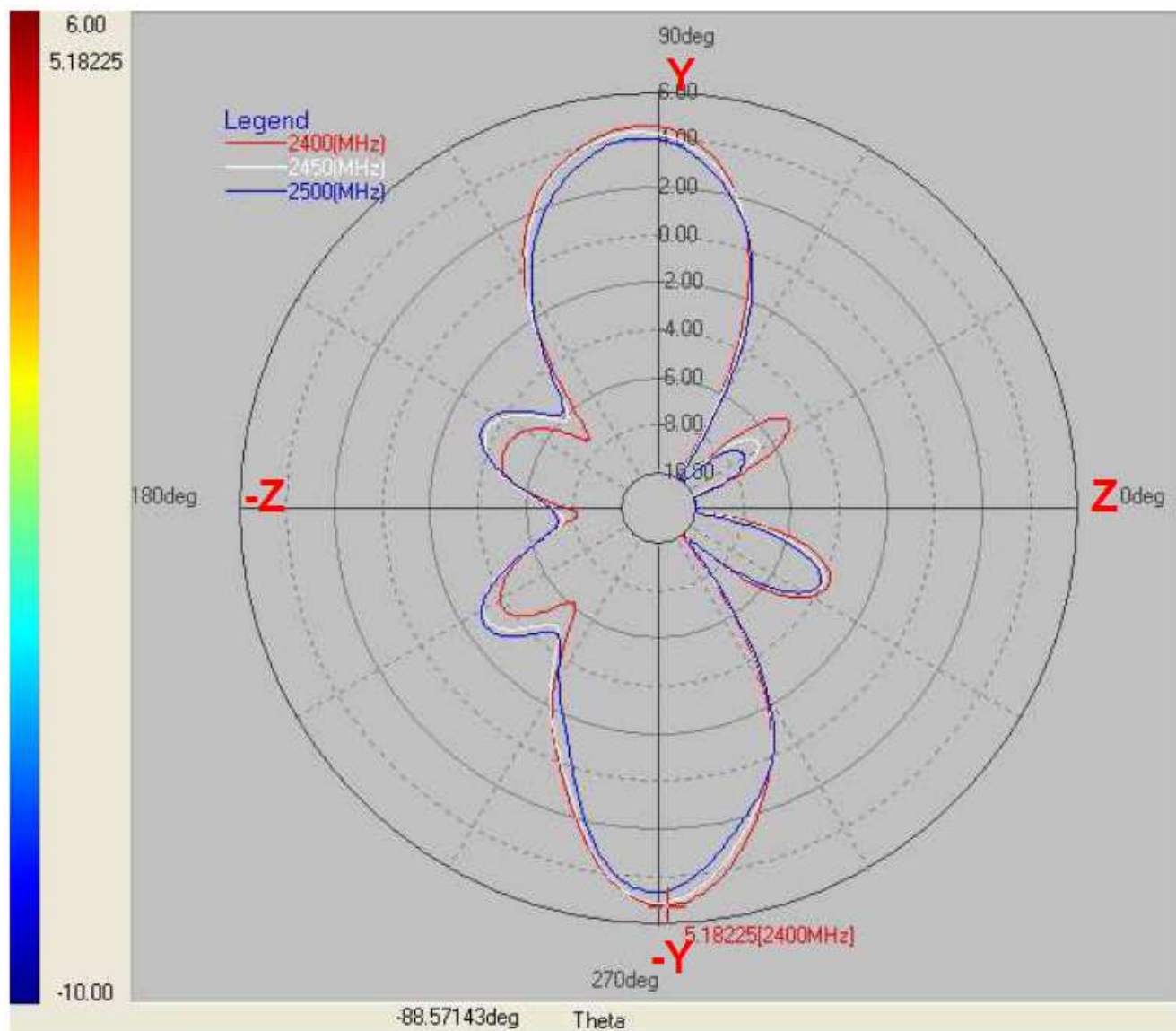
X-Z Plane

Phi=0.00deg

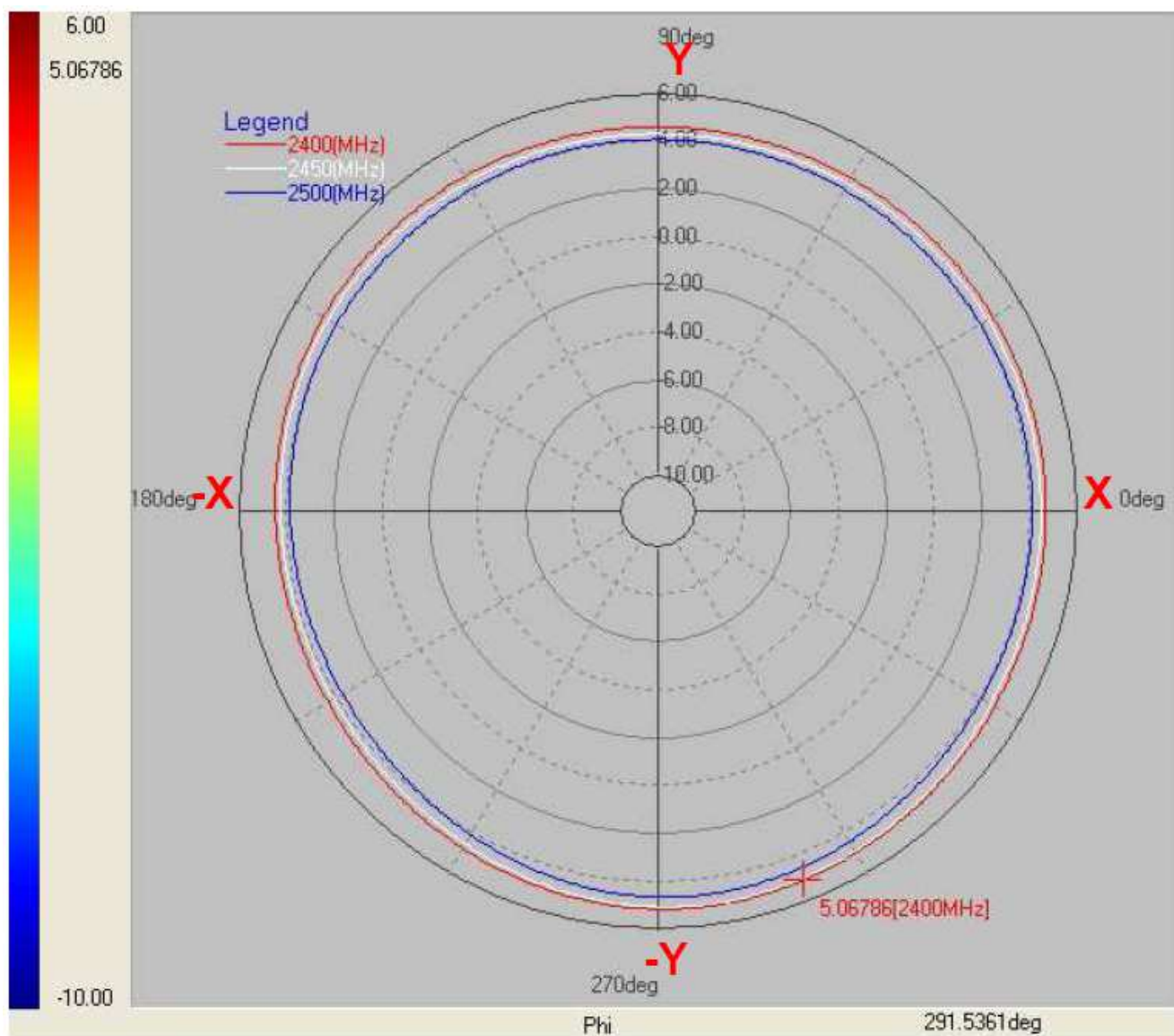
Gain . dB



Layer	Max value	Min value	Average
2400(MHz)	4.69	-16.11	-1.04
2450(MHz)	4.49	-15.13	-1.05
2500(MHz)	4.12	-16.78	-1.31

2400~2500 MHz
Y-Z Plane
Phi=90.00deg
Gain . dB


Layer	Max value	Min value	Average
2400(MHz)	5.18	-22.48	-1.09
2450(MHz)	5.03	-22.16	-1.15
2500(MHz)	4.61	-20.23	-1.44

2400~2500 MHz**X-Y Plane****Theta=90.00deg****Gain . dB**

Layer	Max value	Min value	Average
2400(MHz)	5.06	4.39	4.69
2450(MHz)	5.04	4.13	4.48
2500(MHz)	4.63	3.70	4.09

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	RFDPA171300SAAB8G1(5dB)	發行編號		頁次	1/1
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產品包裝圖示：

圖示一



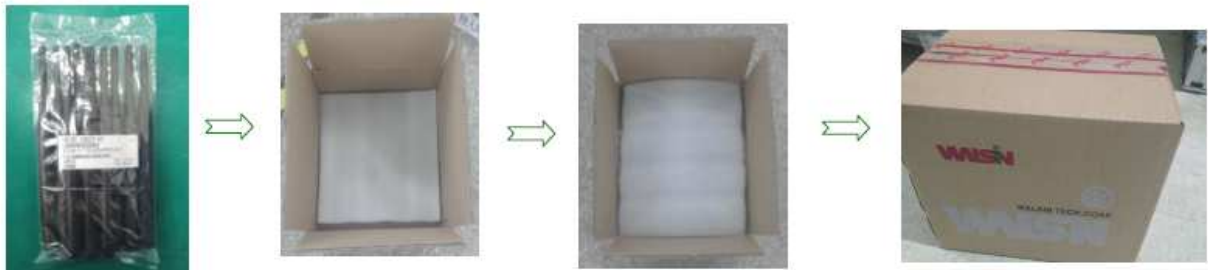
單pcs產品 PE袋 10pcs產品包裝

圖示二



珍珠棉 外箱 珍珠棉放進外箱中

圖示四



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500pcs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
- 5.珍珠棉規格: 長330*寬330*高8mm
- 6.外箱規格: 長350*寬350*高190mm
- 7.產品標籤需貼到最小包裝（參照出貨標籤SOP)

FORM NO: