

## Dipole Antenna

### – RFDPA870900SBAB8G1 for Single Band 2.4 GHz Application

#### ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Gain	2 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.

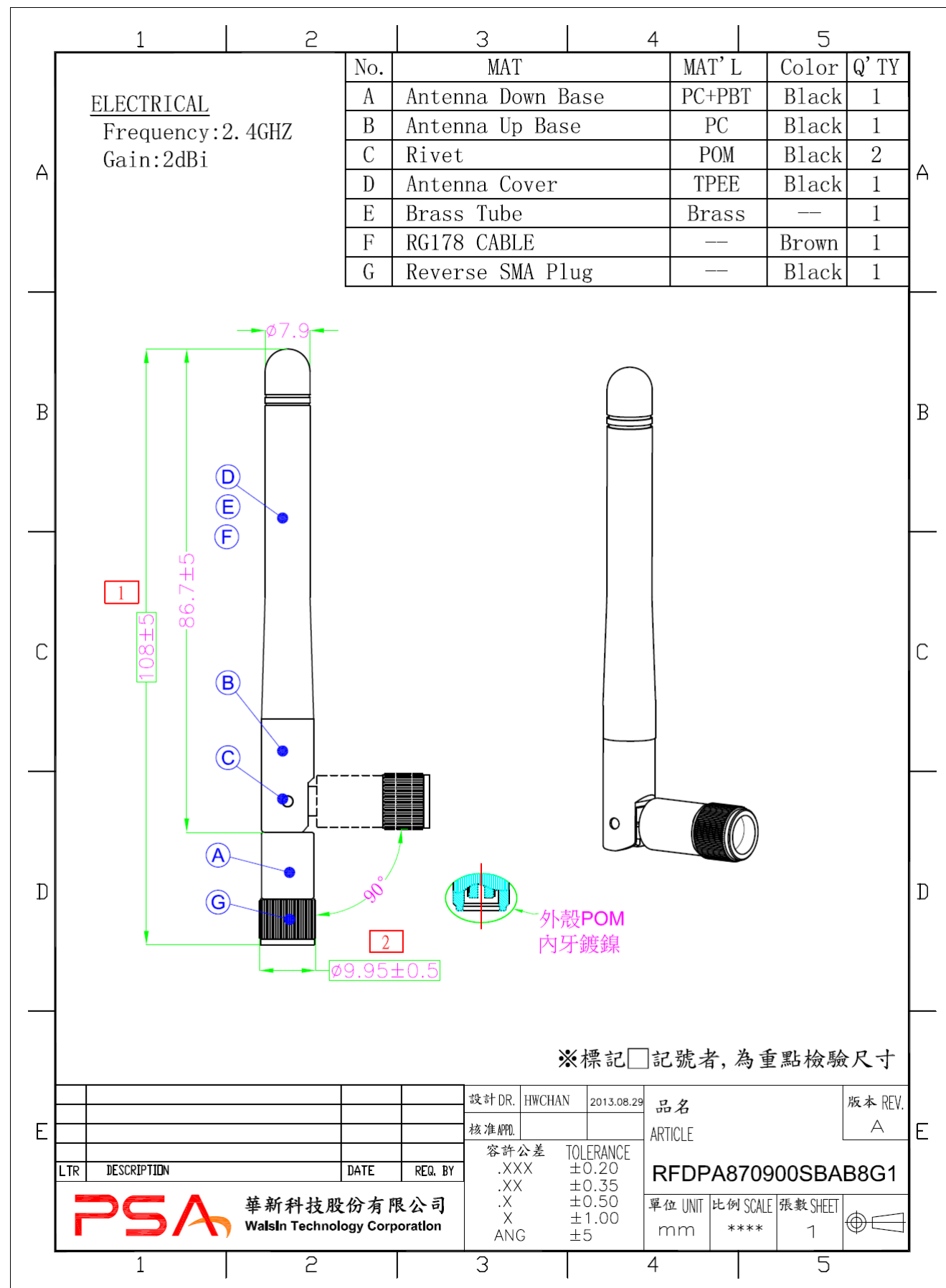
#### MATERIAL TABLE

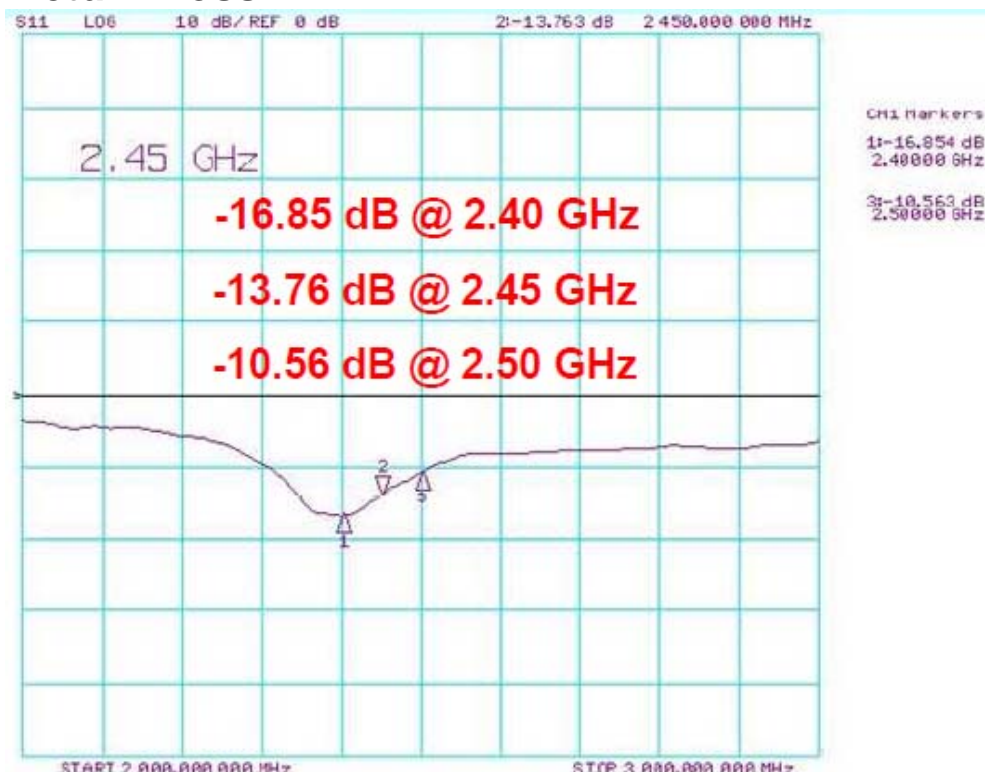
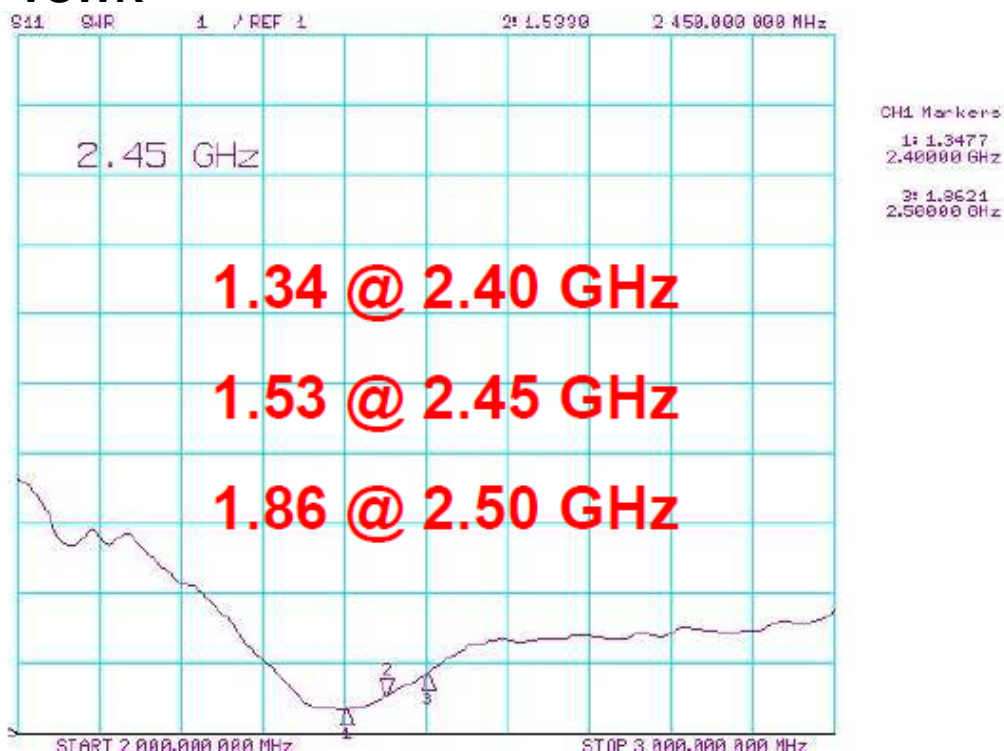
Items	Description
Cable	RG178(Brown)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass

#### ORDERING RULE

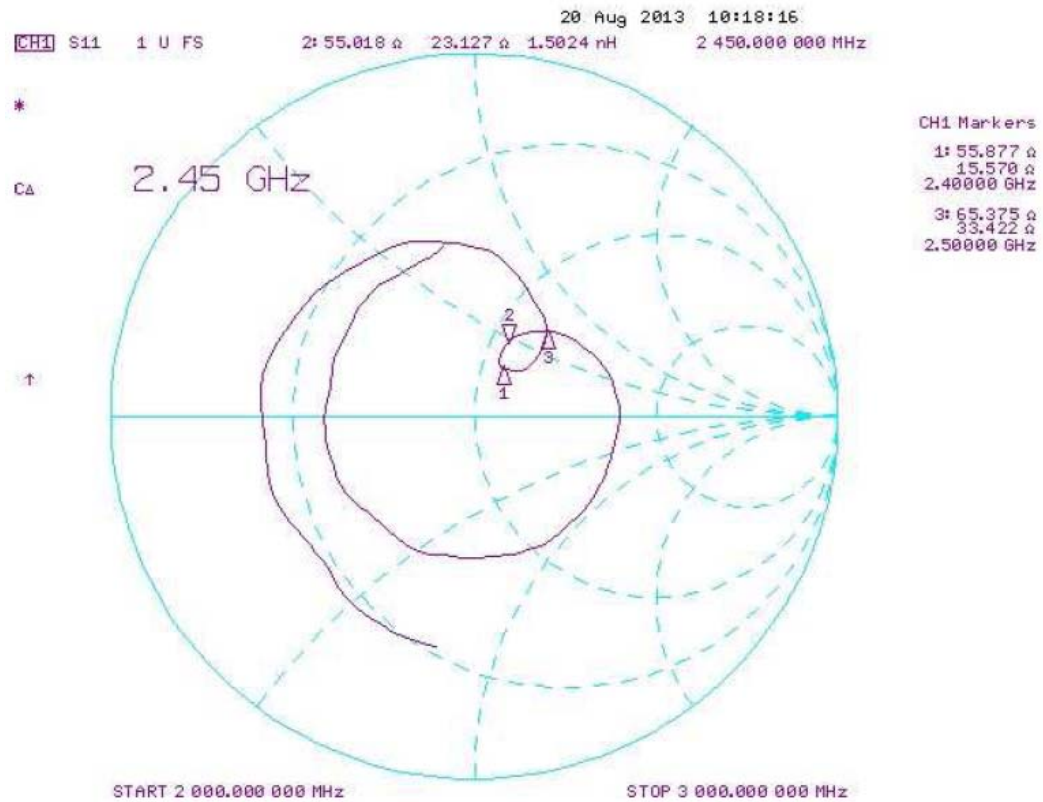
RF	DPA	8709	00	S	B	A	B	8	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 8709 Length 86.7mm, Width 9.95mm	2 digits 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 band 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

## DIMENSIONS



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

## Smith Chart



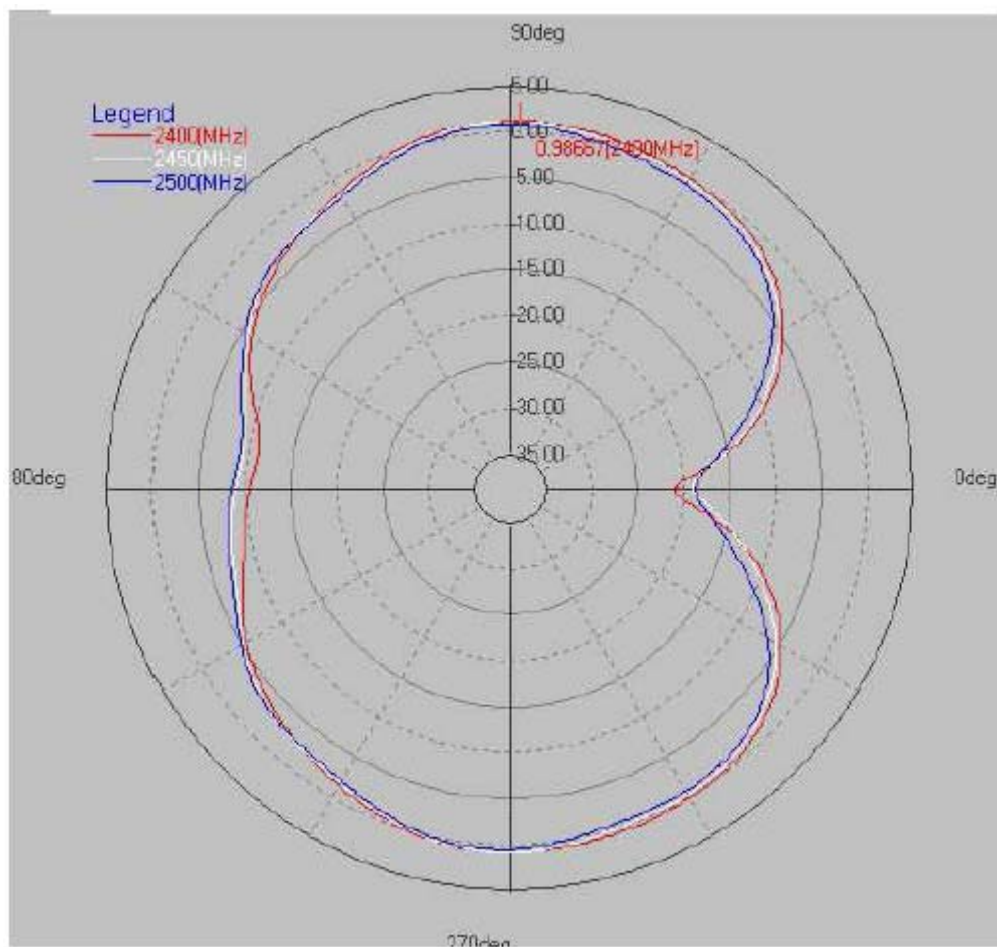
## ■ RADIATION PATTERN

### 2400~2500 MHz

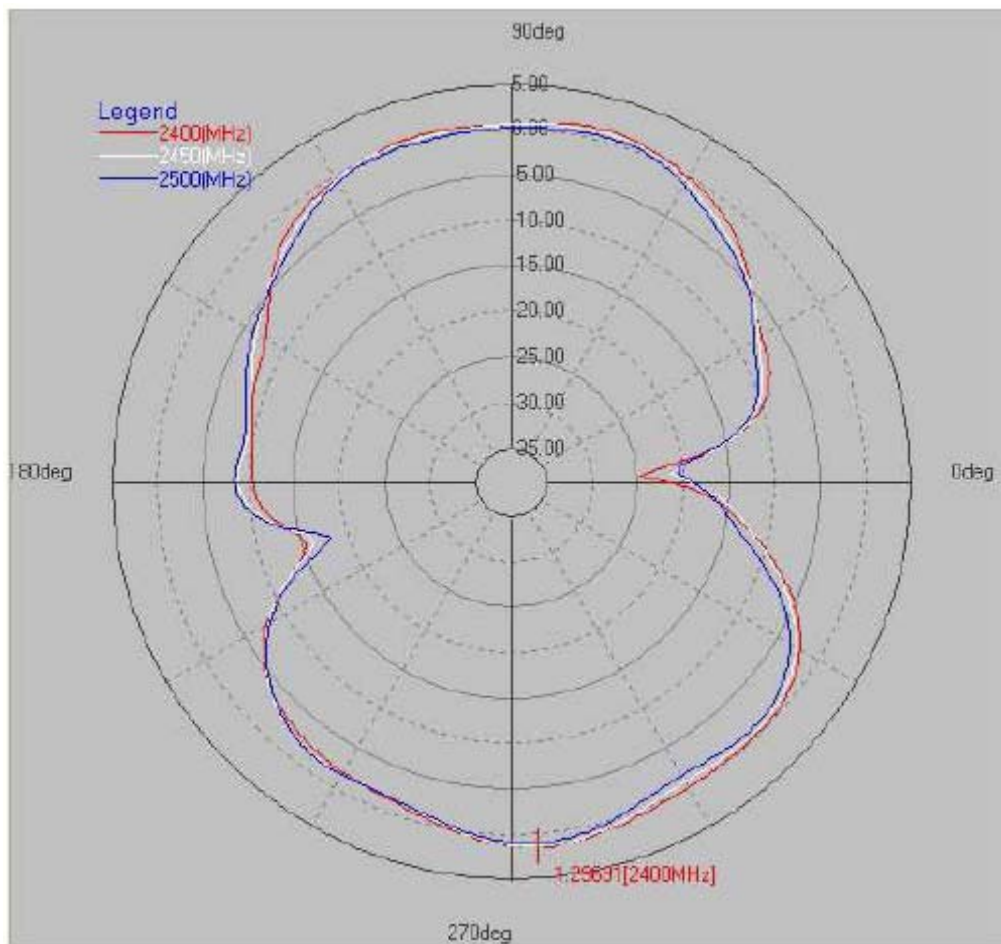
#### X-Z Plane

#### Phi=0.00deg

#### Gain . dB

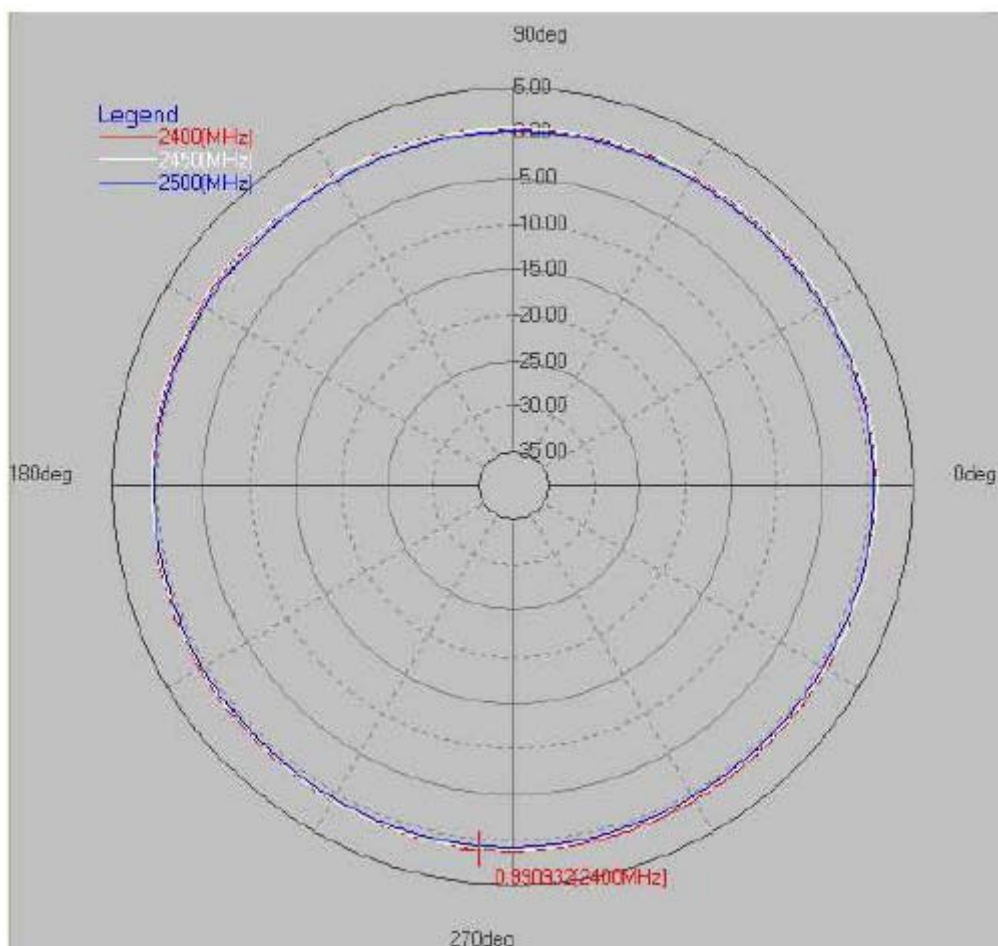


Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	1.89	-21.17	-2.25
2.45	1.92	-19.12	-2.41
2.50	1.81	-18.81	-2.74

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


Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	2.04	-24.68	-2.25
2.45	2.00	-21.44	-2.47
2.50	1.81	-20.59	-2.84



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


Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	1.89	0.35	0.70
2.45	1.90	0.36	0.68
2.50	1.80	-0.16	0.33

## 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	RFDPA870900SAXB8G1(2dB)	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 → 50pcs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.將單PCS產品裝入PE袋中，每PE袋裝50PCS.(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1000pcs產品，上下各放1片珍珠棉。
- 4.包裝材料規格
- 5.規格:長 210\*寬230\*厚度0.07mm
- 6.規格:長330\*寬330\*高8mm
- 7.規格:長350\*寬350\*高190mm
- 8.產品標籤需貼到最小包裝（參照出貨標籤粘貼SOP）

FORM NO: