

**Preliminary Specification**

**Dipole Antenna**

**- RFDPA171310NNAB3G1 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	φ 1.13 CABLE(Black)
Antenna Cover	TPEE
Antenna Base	PC/PBT
Connector	Reverse SMA Plug
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT

**ORDERING RULE**

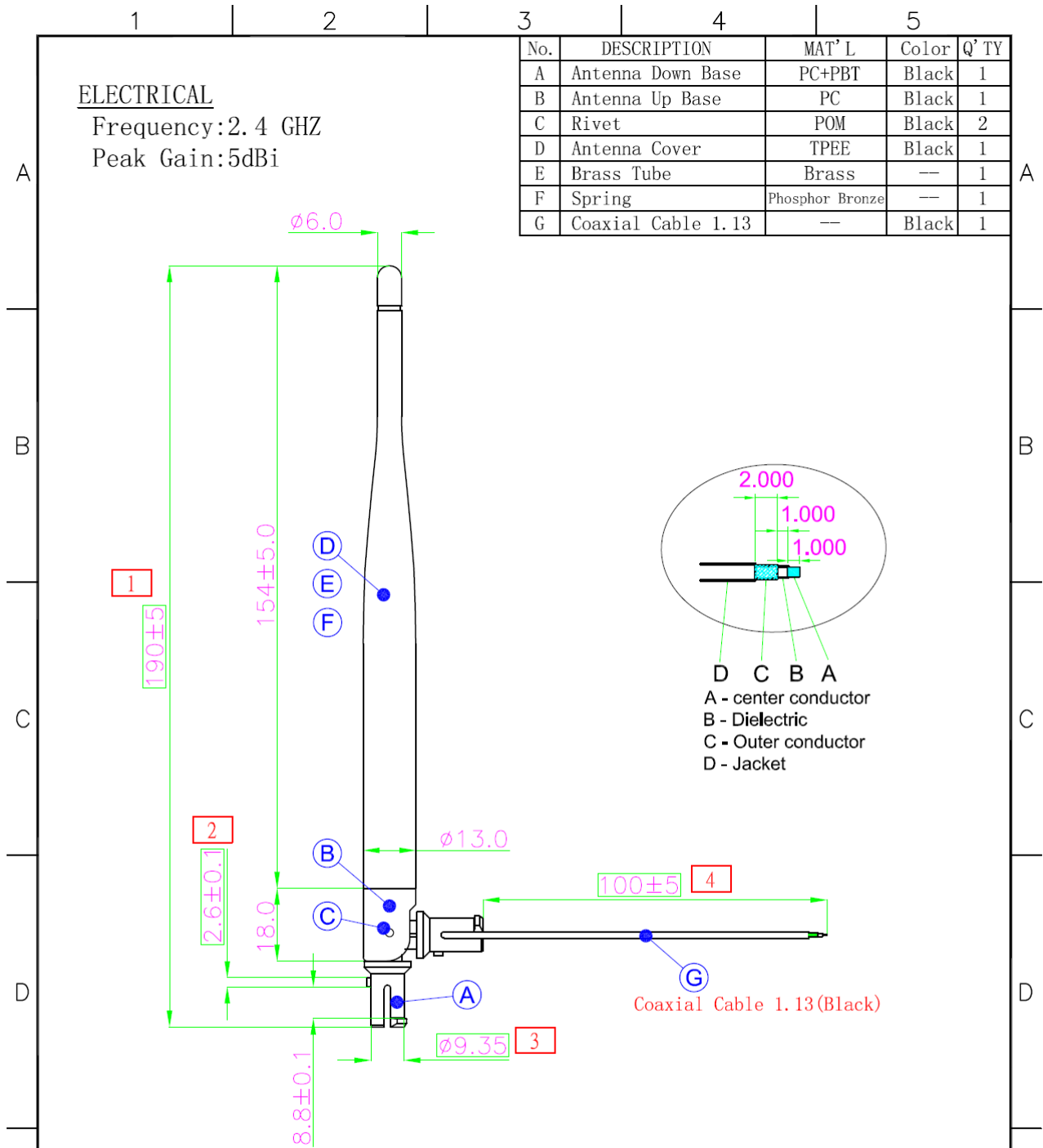
RF	DPA	1713	10	N	N	A	B	3	G1
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1713 Length 172mm, Width 13mm	2 digits for cable length e.g.: 10 Cable Length:10cm	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 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	Coaxial Cable 1.13	---	Black	1



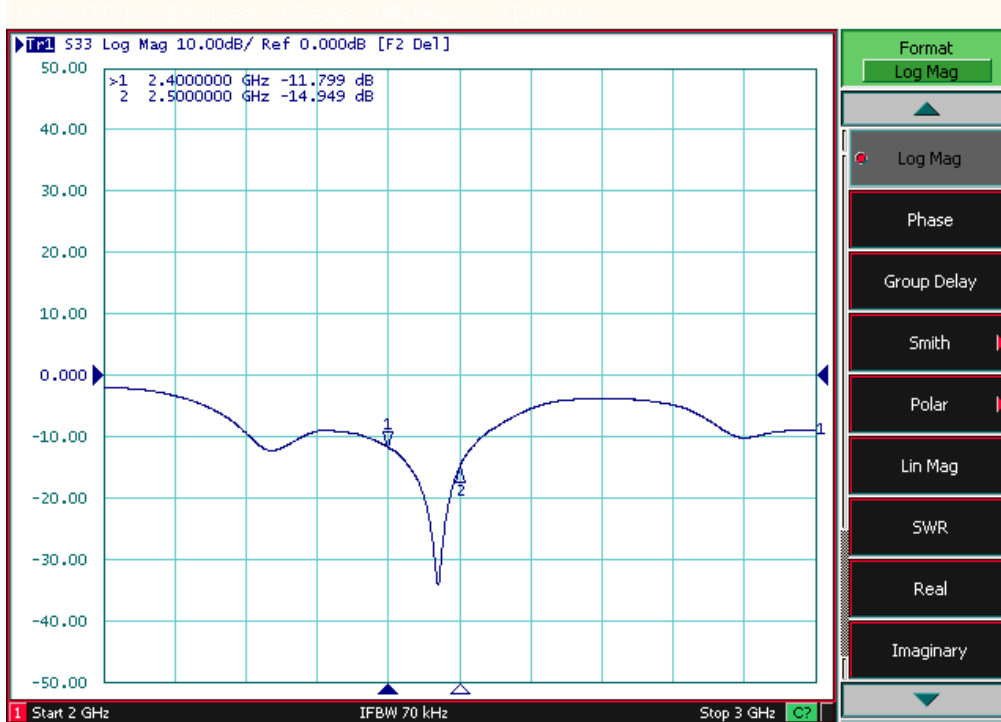
※標記□記號者, 為重點檢驗尺寸

				設計DR.	HWCHAN	2014.01.08	品名	版本 REV.
				核准APPL.			ARTICLE	A
LTR	DESCRIPTION	DATE	REQ. BY	容許公差	TOLERANCE		RFDPA171310NNAB3G1	
				.XXX	±0.20		單位 UNIT	比例 SCALE
				.XX	±0.35		mm	****
				.X	±0.50		張數 SHEET	1
				X	±1.00		☉	
				ANG	±5			

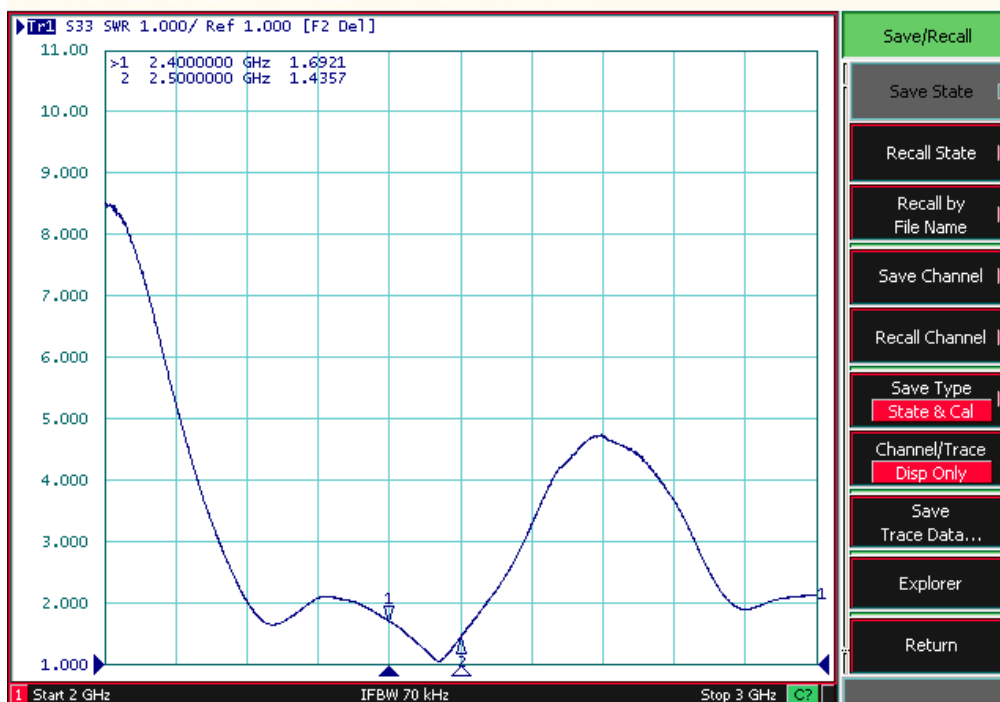
# Test Report

## ELECTRICAL CHARACTERISTICS

### Return Loss



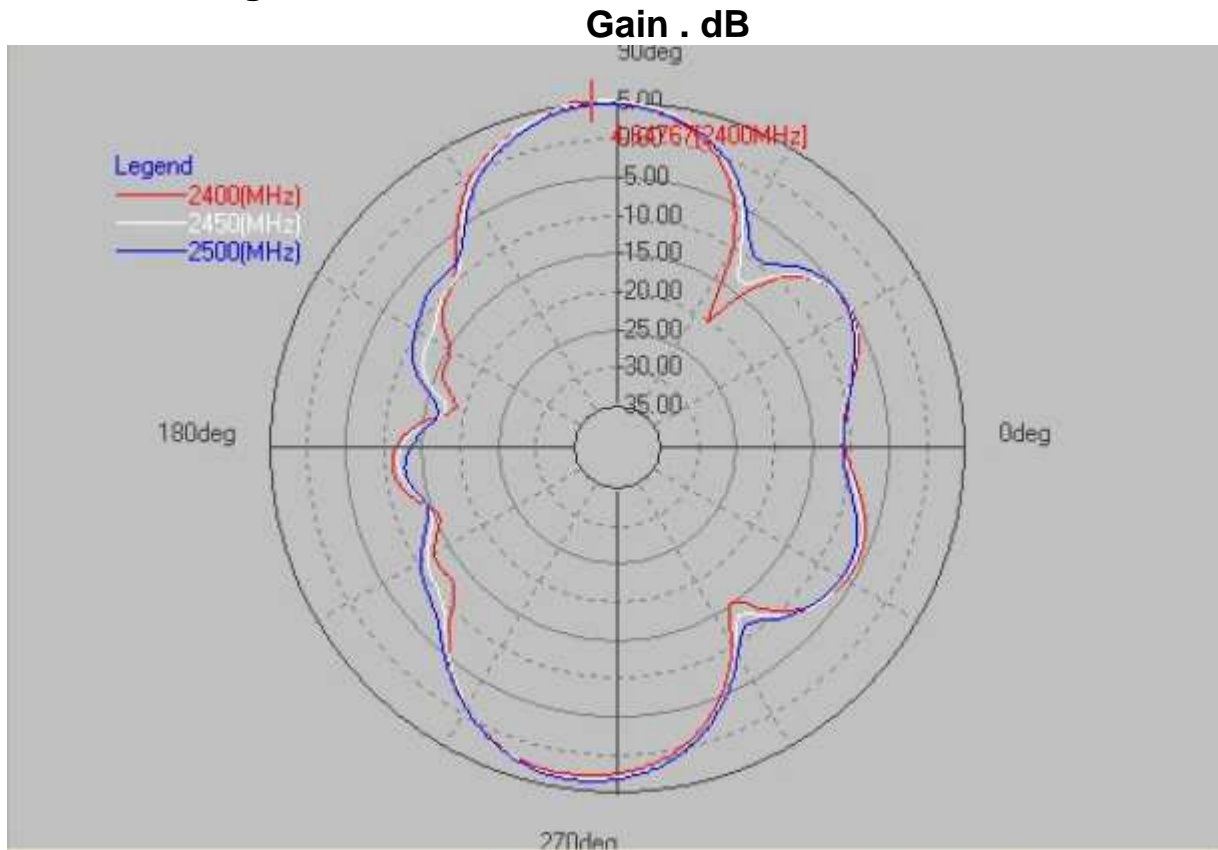
### VSWR



**RADIATION PATTERN**  
2400~2500 MHz

X-Z Plane

Phi=0.00deg



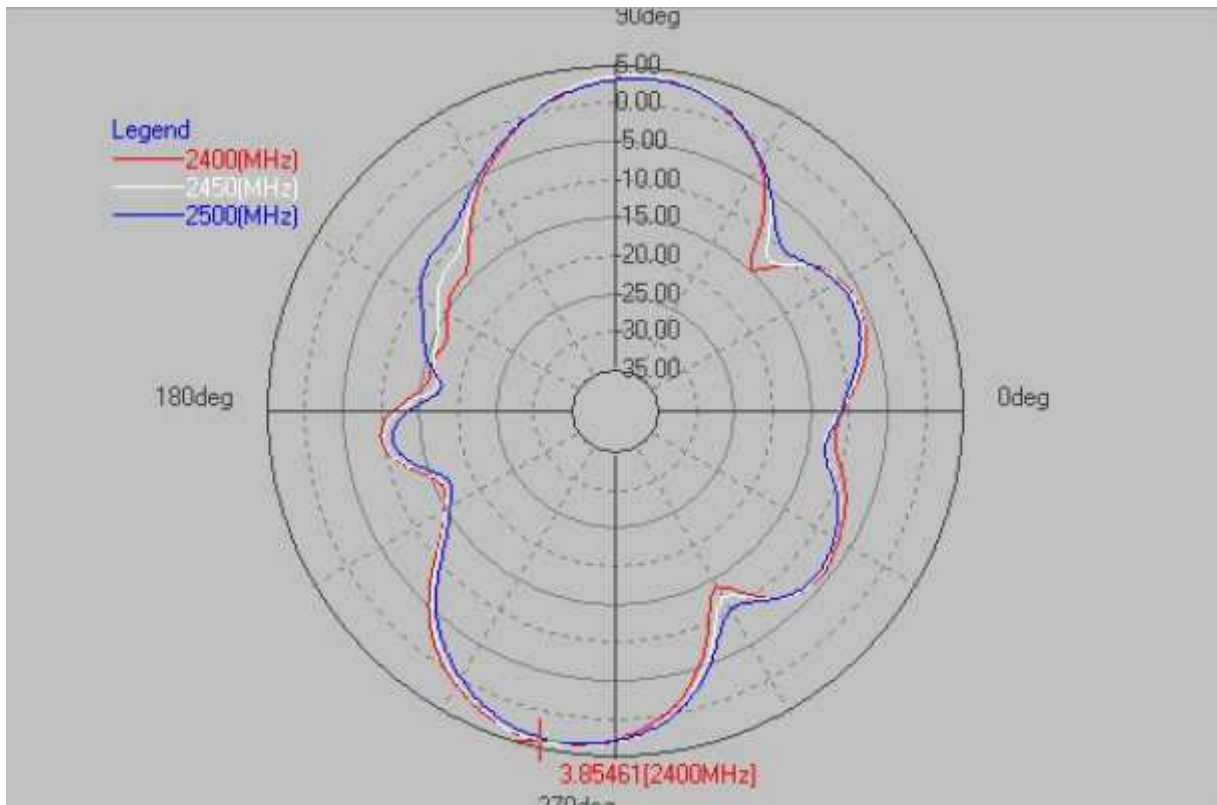
Layer	Max value	Average
2400(MHz)	4.65	-2.36
2450(MHz)	4.89	-2.07
2500(MHz)	4.37	-2.18

**2400~2500 MHz**

**Y-Z Plane**

**Phi=90.00deg**

**Gain . dB**



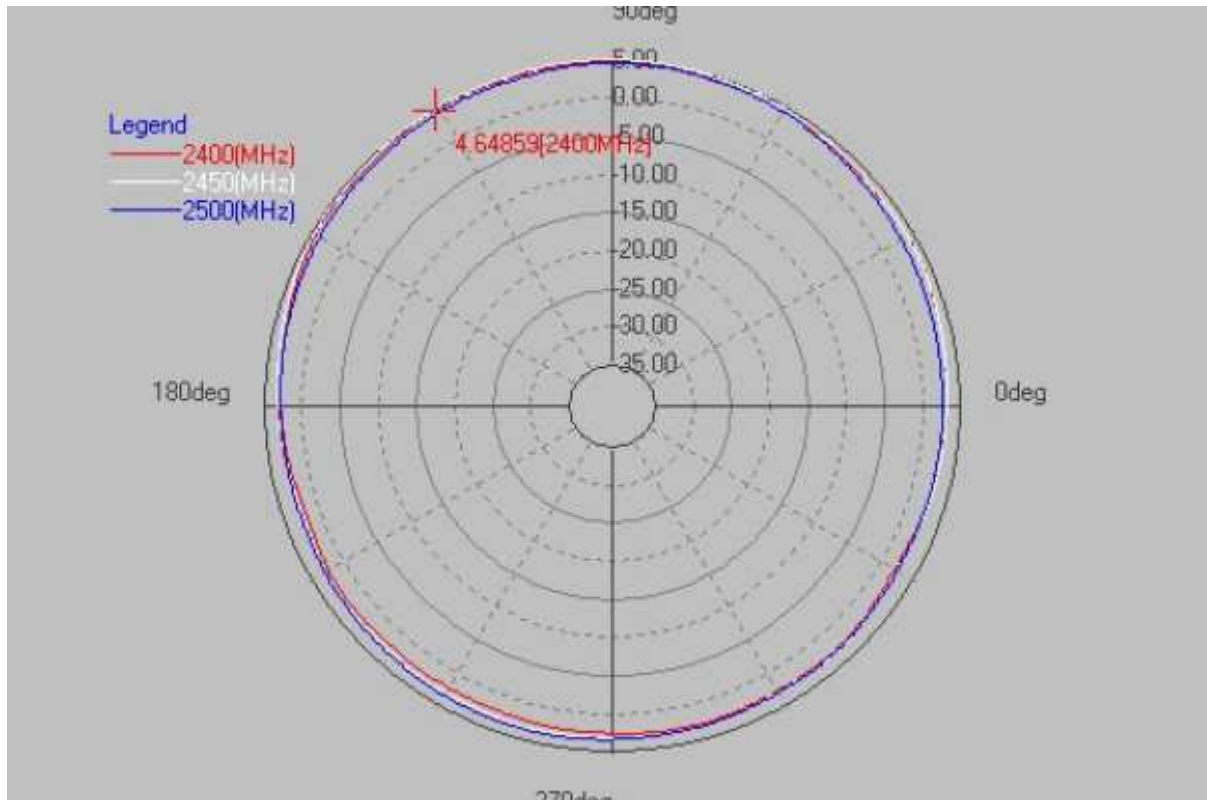
Layer	Max value	Average
2400(MHz)	3.85	-2.55
2450(MHz)	3.88	-2.45
2500(MHz)	3.44	-2.73

**2400~2500 MHz**

**X-Y Plane**

**Theta=90.00deg**

**Gain . dB**



Layer	Max value	Average
2400(MHz)	4.65	3.32
2450(MHz)	4.88	3.63
2500(MHz)	4.37	3.32

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