

Preliminary Specification
Dipole Antenna
- RFDPA151310NNAB3G1 for Single Band 2.4 GHz Application
ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Gain	3 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
Color	Black
Brass Tube	Brass
Spring	Phosphor Bronze
Tube	CB-HFT

ORDERING RULE

RF	DPA	1513	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.: 1513 Length 157.5mm, 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

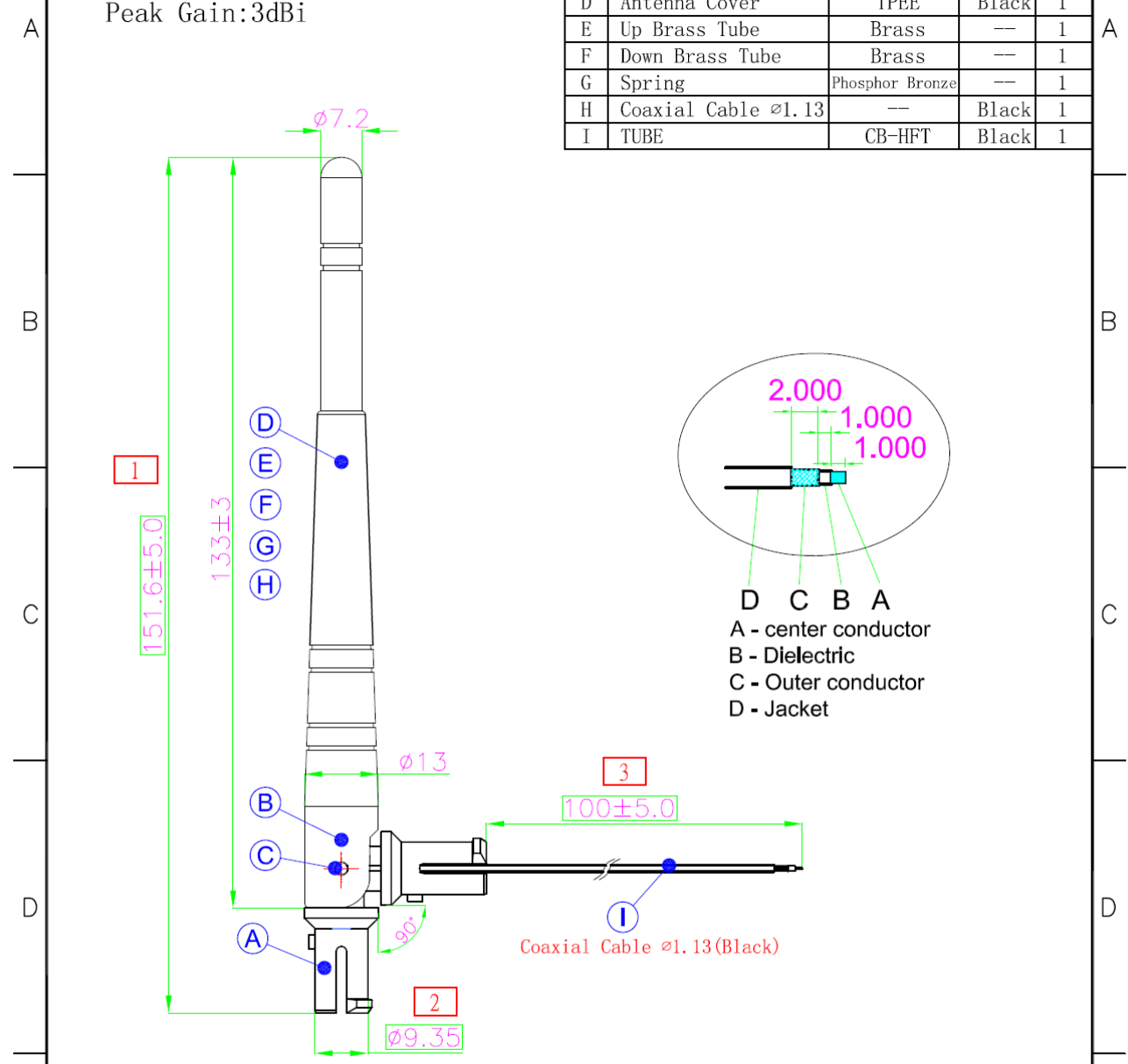
Preliminary Specification

DIMENSIONS

ELECTRICAL

Frequency: 2.4 GHZ
Peak Gain: 3dBi

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	Coaxial Cable $\phi 1.13$	---	Black	1
I	TUBE	CB-HFT	Black	1



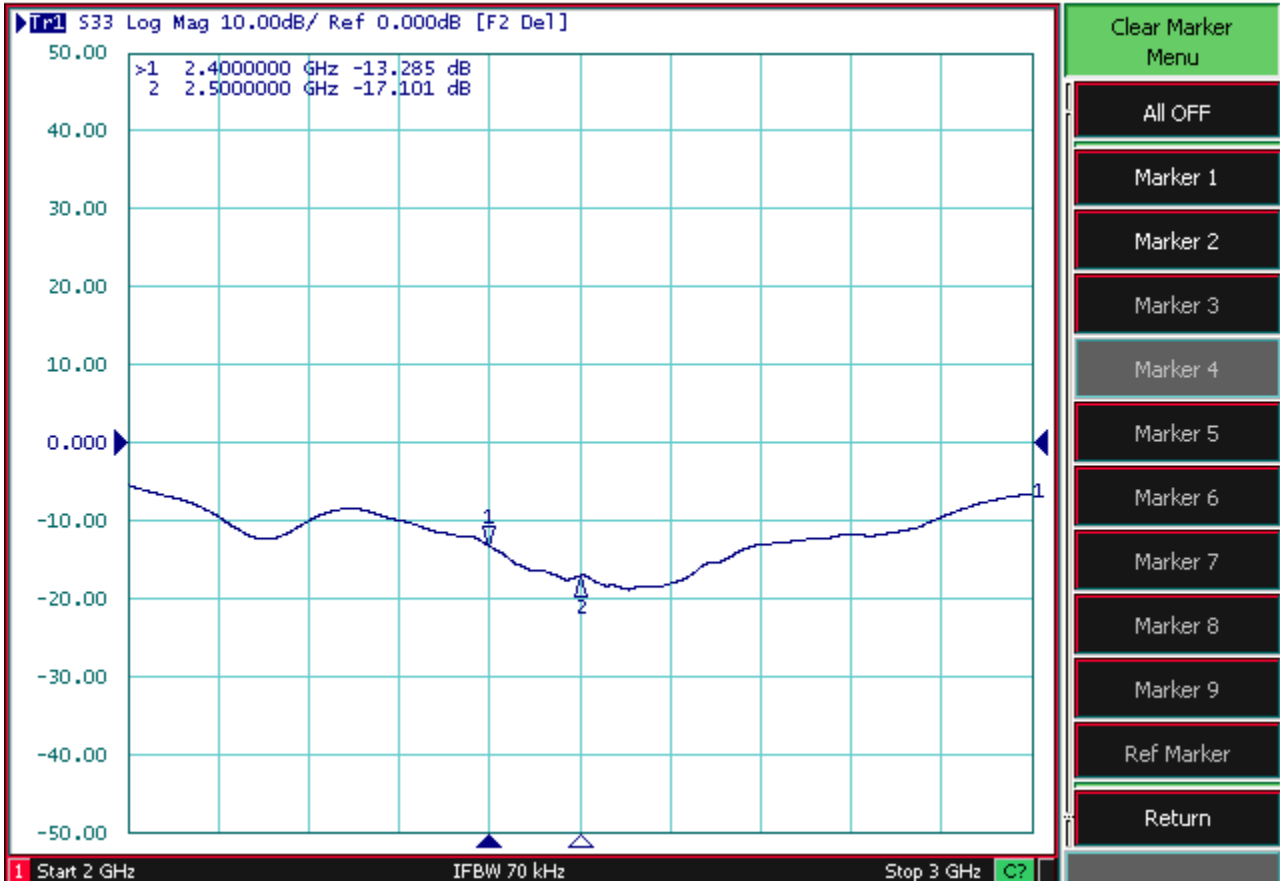
※標記□記號者, 為重點檢驗尺寸

設計 DR. HWCHAN		2014.01.08		品名		版本 REV.	
核准 APP.				ARTICLE		A	
容許公差		TOLERANCE		RFDPA151310NNAB3G1			
.XXX		±0.20		單位 UNIT		比例 SCALE	
.XX		±0.35		mm		****	
.X		±0.50		張數 SHEET		1	
X		±1.00		圖號		☉	
ANG		±5					

Test Report

ELECTRICAL CHARACTERISTICS

Return Loss



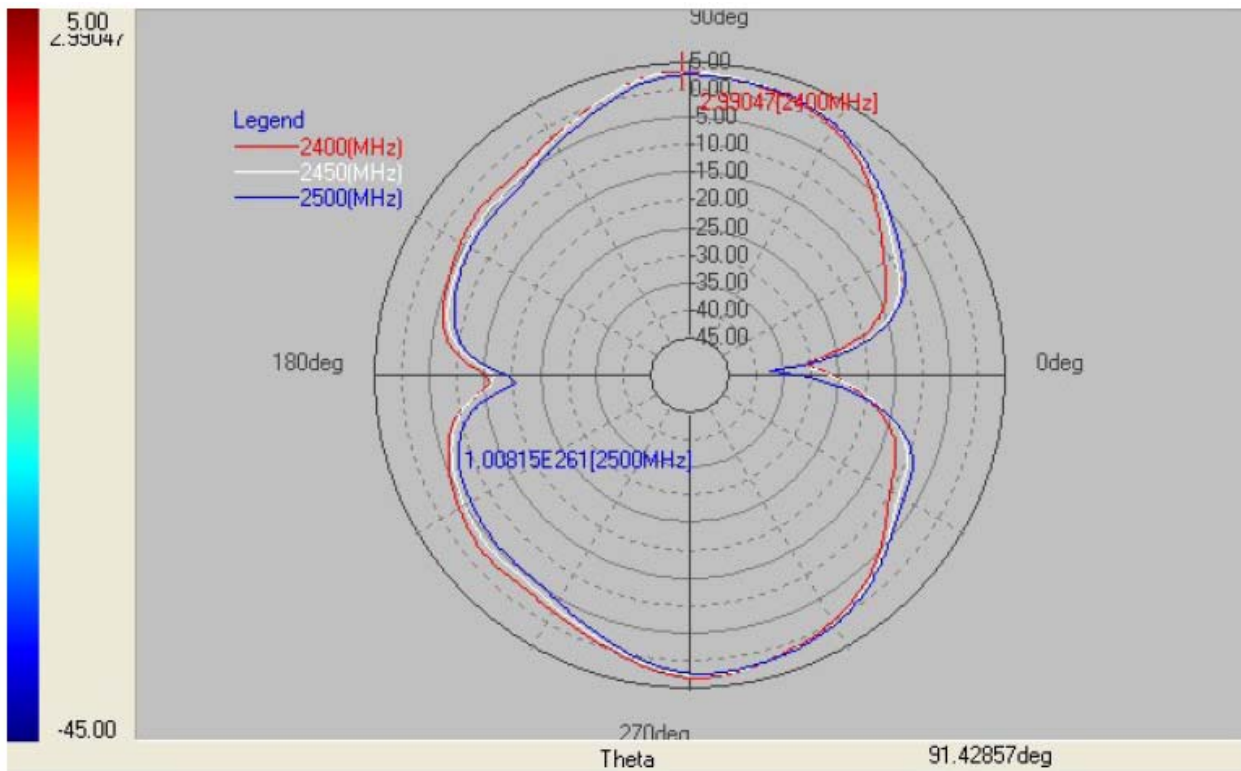
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



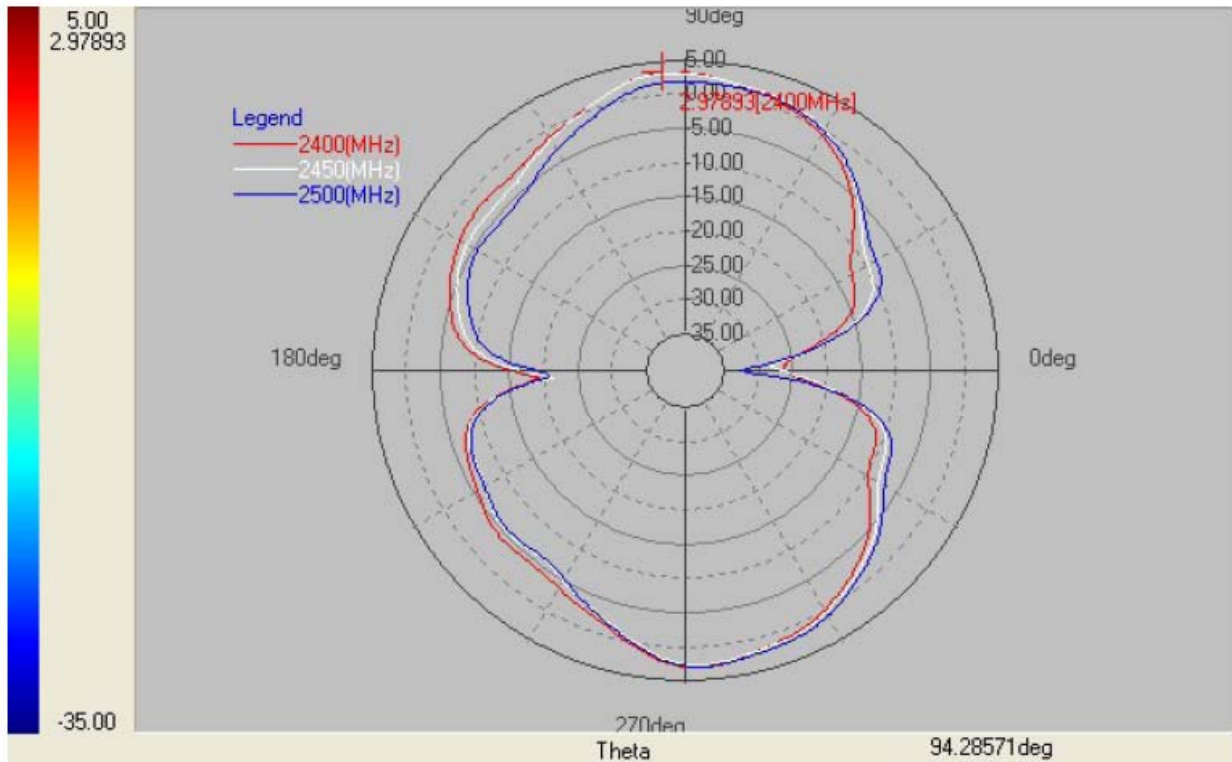
Layer	Max value	Average
2400(MHz)	2.99	-2.07
2450(MHz)	2.93	-2.15
2500(MHz)	2.30	-2.51

2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



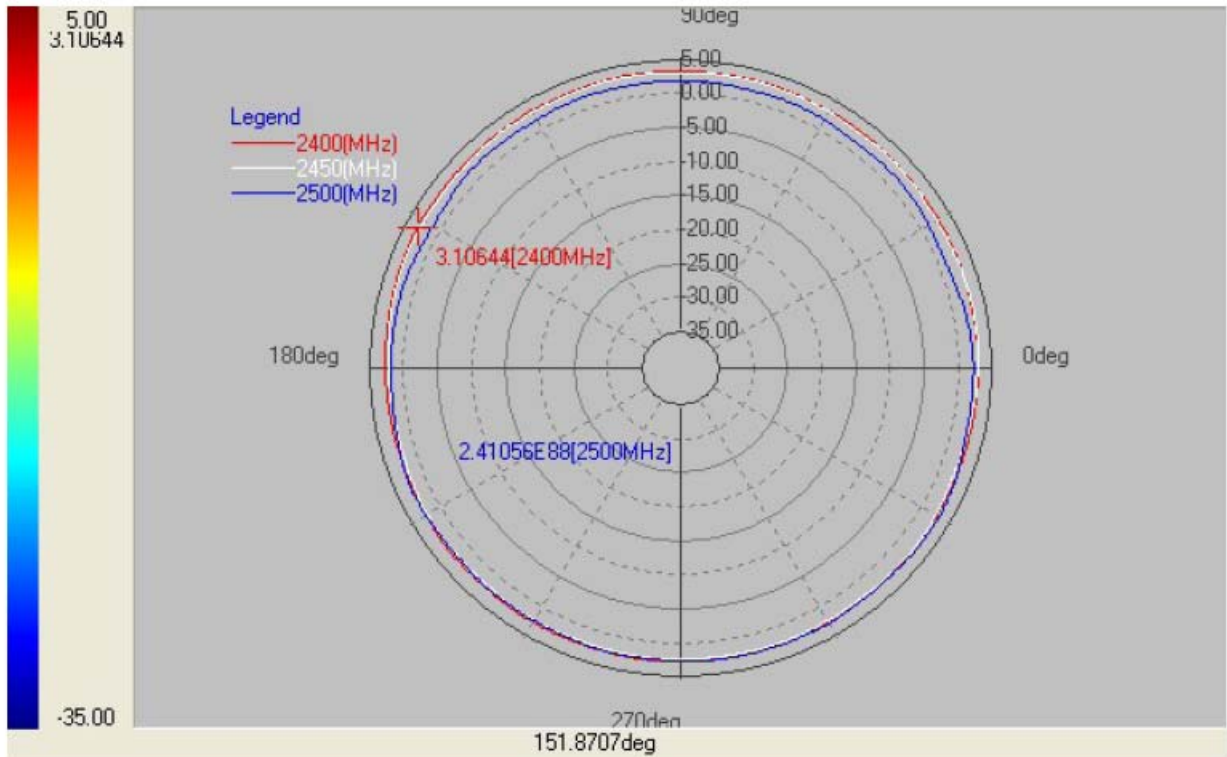
Layer	Max value	Average
2400(MHz)	2.98	-2.08
2450(MHz)	2.86	-2.19
2500(MHz)	2.77	-2.50

2400~2500 MHz

X-Y Plane

Theta=90.00deg

Gain . dB



Layer	Max value	Average
2400(MHz)	3.11	2.79
2450(MHz)	3.15	2.54
2500(MHz)	3.17	2.06