

APPROVAL SHEET

Dipole ANTENNA

2.4 GHz Single Band Working Frequency

Halogens Free Product

P/N: RFDPA870910IMAB308

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

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

Version	Date	Description	Author
V01	2016 Nov.	New Release	SHLEE

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz (Note-1)
Gain	2.0 dBi
Return Loss	-10 dB(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	Coaxial Cable ϕ 1.13(Black)
Antenna Cover	TPEE
Antenna Down Base	PC/PBT
Antenna Up Base	PC
Rivet	POM
Connector	IPEX Compatible
Brass Tube	Brass
Color	Black

ORDERING RULE

RF	DPA	8709	10	I	M	A	B	3	08
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: 87mm, Width: 9.4mm	2 digits for cable length e.g.: 30 Cable Length: 30cm	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: ϕ 0.81 3: ϕ 1.13 6: RG316 7: ϕ 1.37 8: RG178	01~99 series number

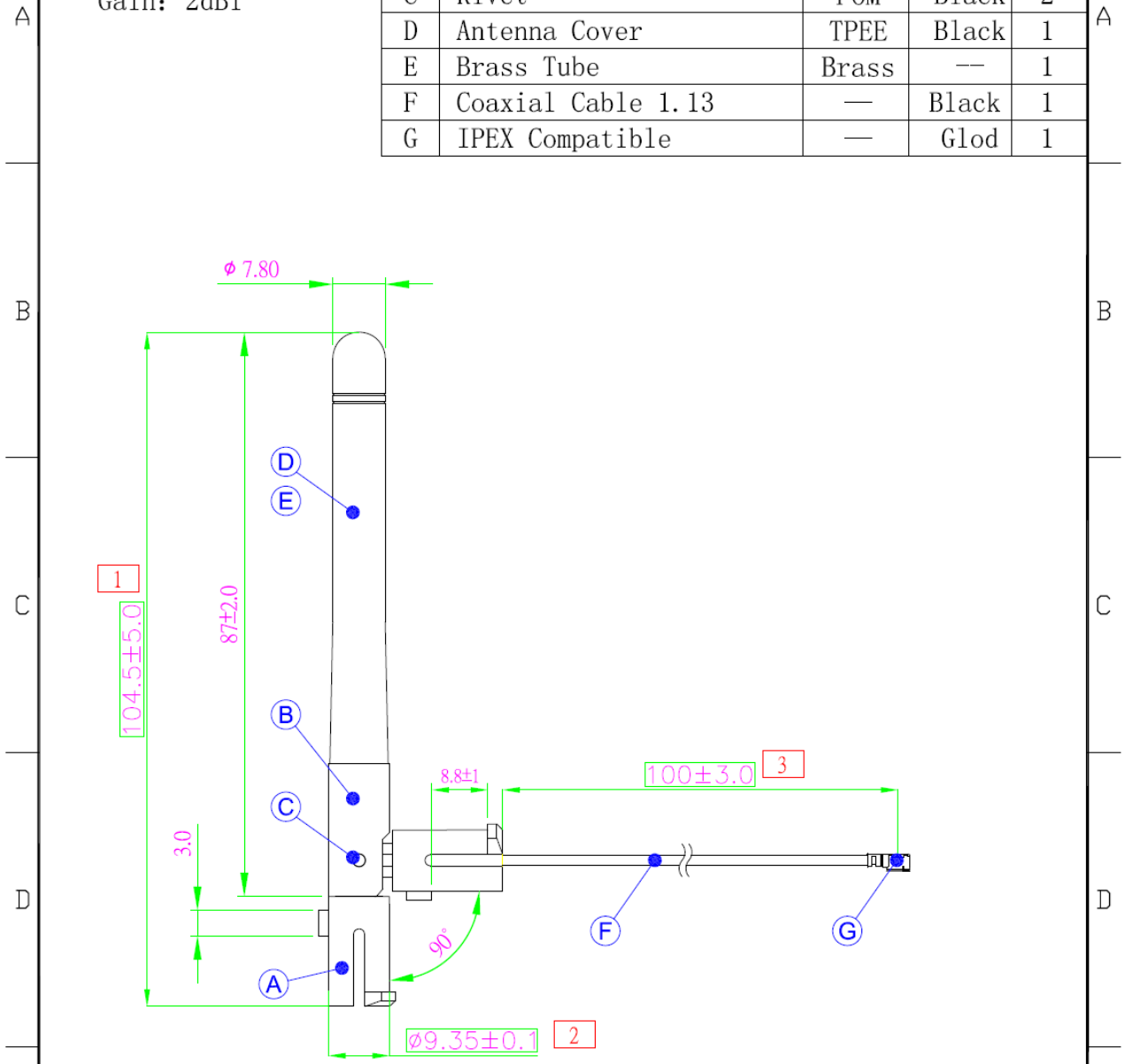
DIMENSIONS

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	Coaxial Cable 1.13	—	Black	1
G	IPEX Compatible	—	Glod	1

ELECTRICAL

Frequency: 2.4GHz

Gain: 2dBi



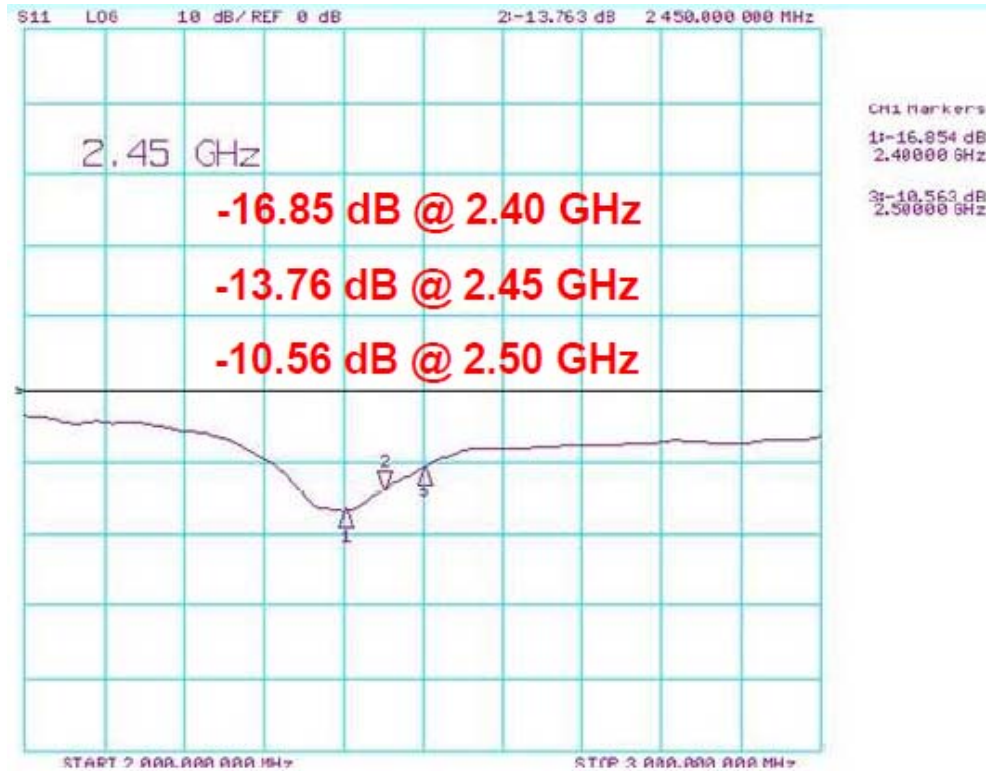
※標記□記號者, 為重點檢驗尺寸

				設計DR.	SHLEE	2016.11.29	品名	版本 REV.
				核准APP.	Marco		ARTICLE	A
				容許公差 TOLERANCE		RFDPA870910IMAB308		
				6以下.....±0.2		單位 UNIT		
				6以上~30.....±0.5		mm		
				30以上~120.....±0.8		比例 SCALE		
				120以上~315.....±1.2		****		
				315以上~1000.....±2.0		張數 SHEET		
				1000以上~2000.....±3.0		1		

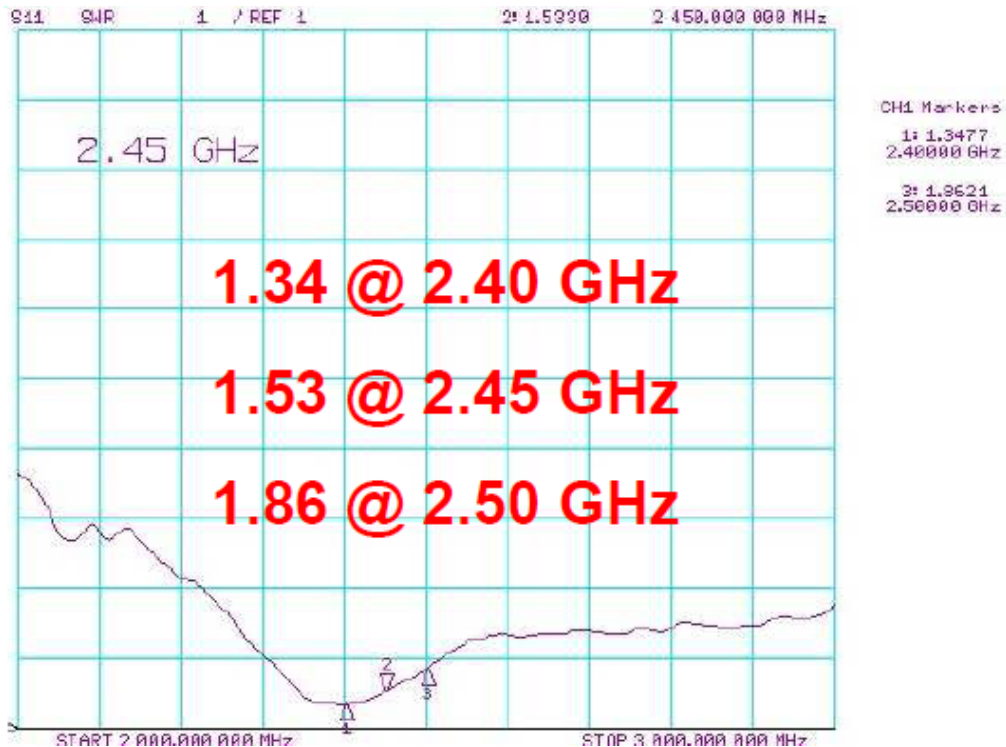
Test Report

ELECTRICAL CHARACTERISTICS

Return Loss



VSWR



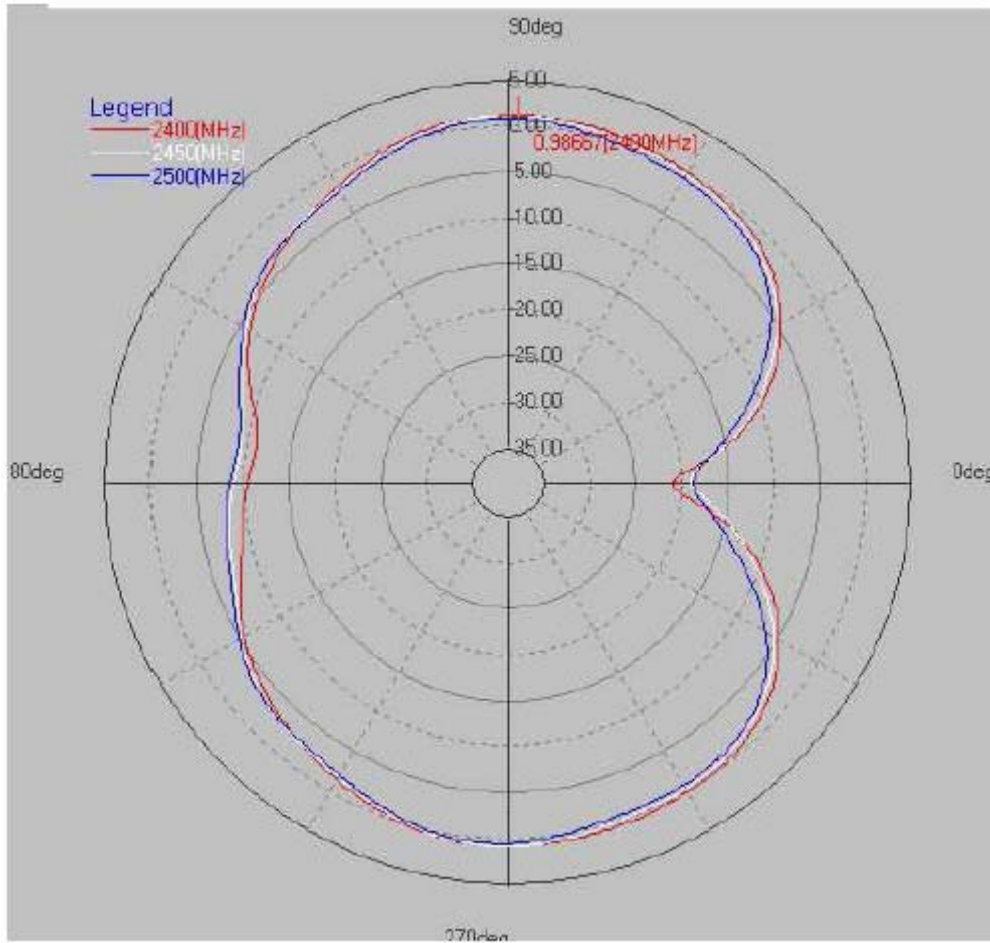
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



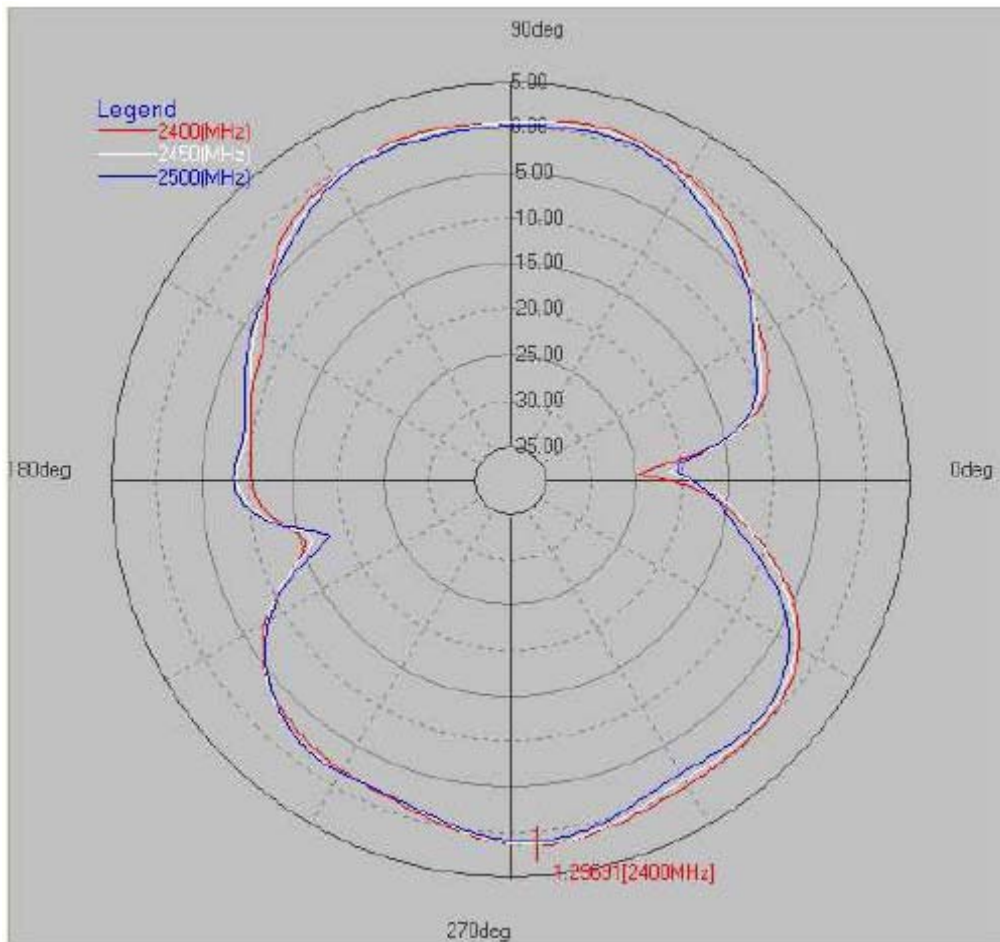
Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	1.89	-21.17	-2.25
2.45	1.92	-19.12	-2.41
2.50	1.81	-18.81	-2.74

2400~2500 MHz

Y-Z Plane

Phi=90.00deg

Gain . dB



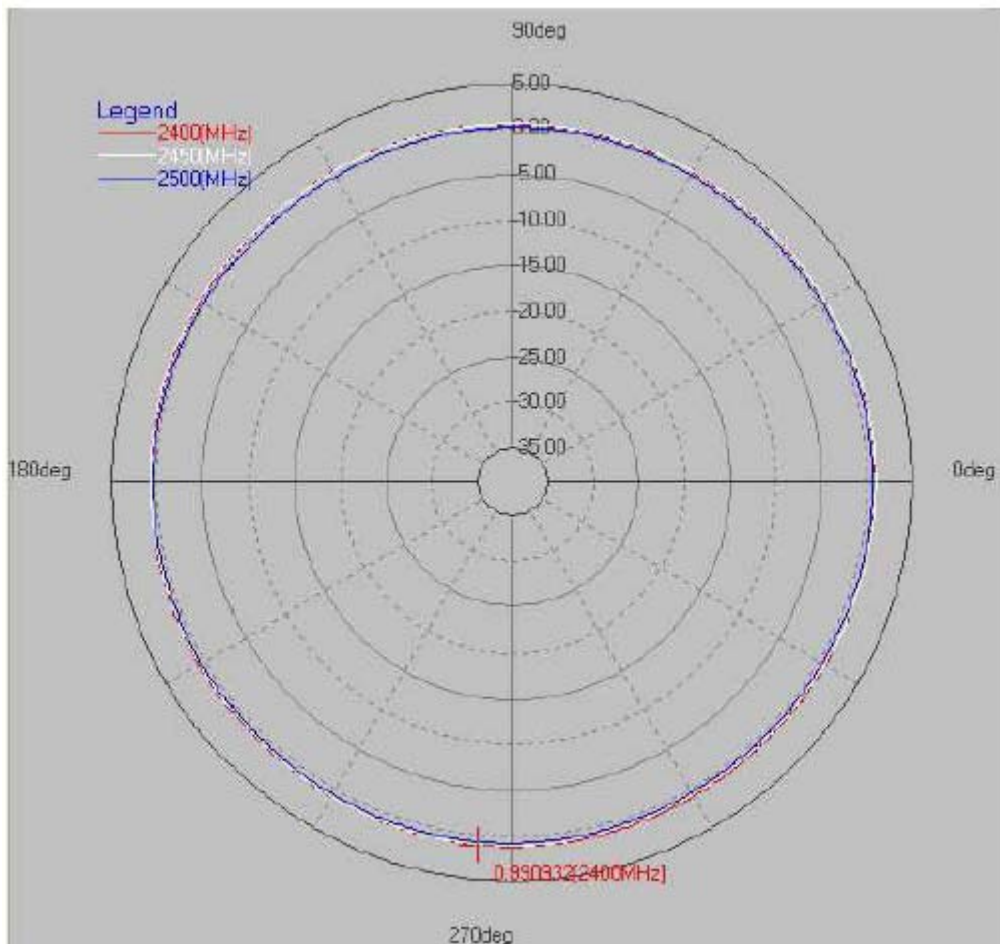
Frequency(GHz)	Peak (dB)		Average (dB)
	Max.	Min.	
2.40	2.04	-24.68	-2.25
2.45	2.00	-21.44	-2.47
2.50	1.81	-20.59	-2.84

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