APPROVAL SHEET

FPC ANTENNA

2.4 GHz Working Frequency

Halogens Free Product

P/N: RFFPA361009IMAB301

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	2017 Apr.	New Release	SHLEE

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz(Note-1)
Impedance	50 Ohm Nominal
VSWR	2.0 (Max)
Radiation	Omni-directional
Gain(peak)	2.44 dBi
Polarization	Linear Vertical

*Note 1. Central Frequency should be defined after customers' application approval.

MATERIAL TABLE

Items	Description
FPC	0.5oz(黑漆板)
Cable	Coaxial Cable (Ø1.13) (Gray)
Connector	IPEX Compatible(Gold)
Double Tape	3M9888T
Sponge(F-2G)+Double Tape(單面背膠)	L58*W15*T3mm

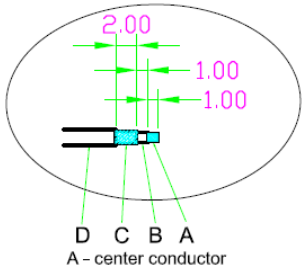
ORDERING RULE

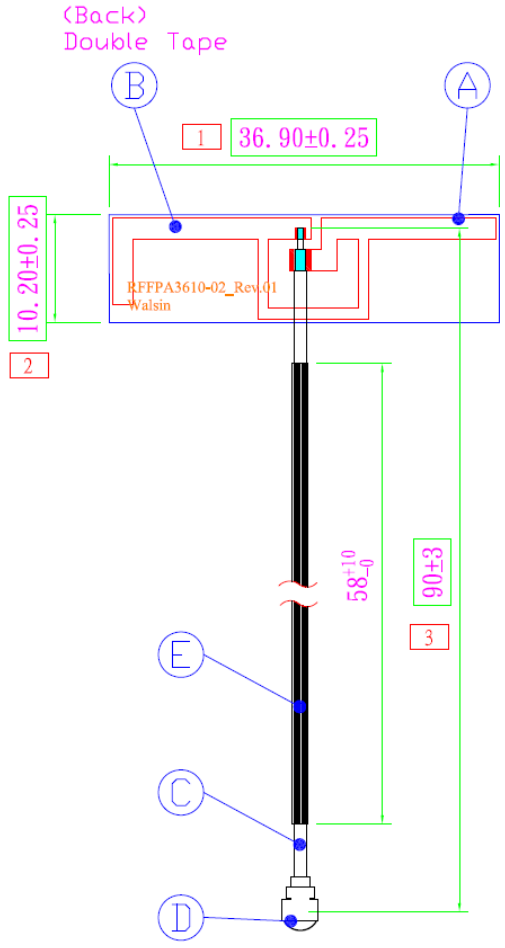
RF	FPA	3610	09	I	M	A	B	3	01
Type Code	**Product Code**	**PCB Dimension (Unit: mm)**	**PCB Length (unit: cm)**	**Connector Brand**	**Type of Connector**	**Application**	**Project status**	**Wire Diameter**	**Project**
Walsin RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3610 Length 36.9mm, Width 10.2mm	2 digits for cable length e.g.: 09 Length 9.0cm	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: 5GHz 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:⌀ 0.81 2:⌀ 1.32 3:⌀ 1.13 4:Low Loss ⌀ 1.13 5:⌀ 0.5 6:RG316 7: ⌀ 1.37 8:RG178 9:Low Loss ⌀ 1.37	01~99 series number

Dimensions

NO	DESCRIPTION		Q'TY	REMARK
A	Body	FR4(T=0.4mm),黑漆板	1	
B	Double Tape	3M467	1	
C	Coaxial cable	(φ1.13)(Gray)	1	
D	Connector	IPEX Compatible(Gold)	1	
E	Sponge(F-2G)+Double Tape(單面背膠):L58*W15*T3mm		1	

ELECTRICAL
Frequency : 2.4 GHz





IPEX方向:
100mm：±90°
200mm：±135°
200mm以上不管控

注意IPEX方向

※標記□記號者，為重點檢驗尺寸

LTR	DESCRIPTION	DATE	REQ. BY

華新科技股份有限公司
Walsin Technology Corporation

設計 DR.	SHLEE	2017.04.26
核准 APPD.	Marco	

容許公差 TOLERANCE
6以下.....±0.2
6以上~30.....±0.5
30以上~120.....±0.8
120以上~315.....±1.2
315以上~1000.....±2.0
1000以上~2000.....±3.0

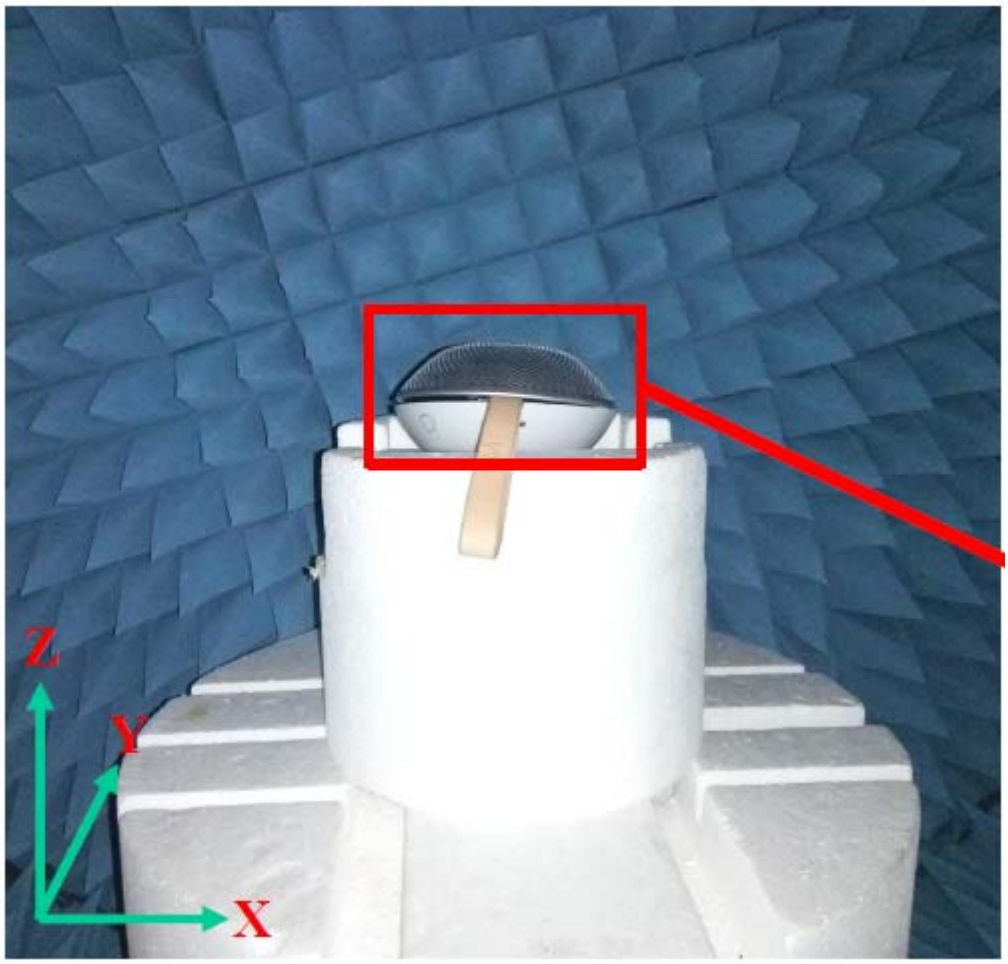
品名 ARTICLE: RFFPA361009IMAB301

版本 REV.: A

單位 UNIT	比例 SCALE	張數 SHEET
mm	****	1

Test Report

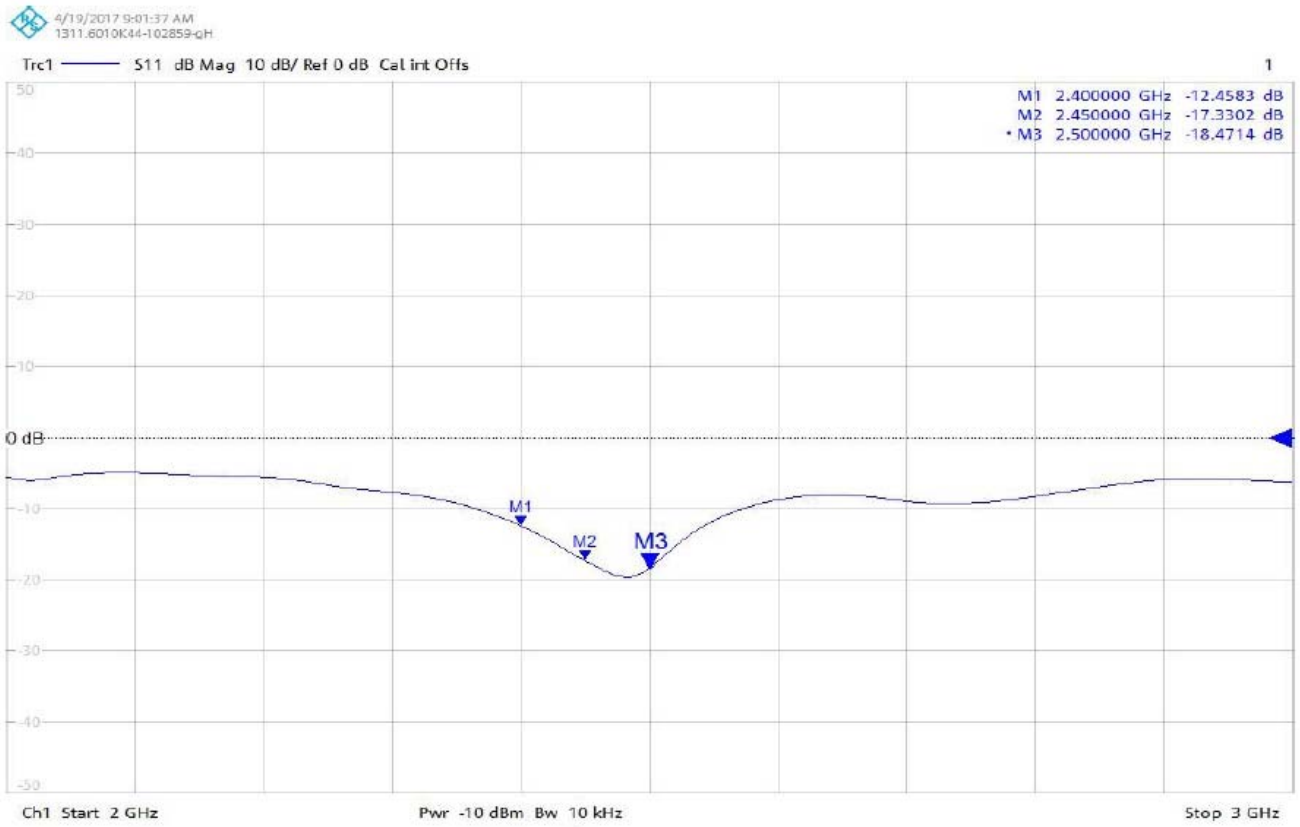
Experimental Setup



Antenna Solution Detail

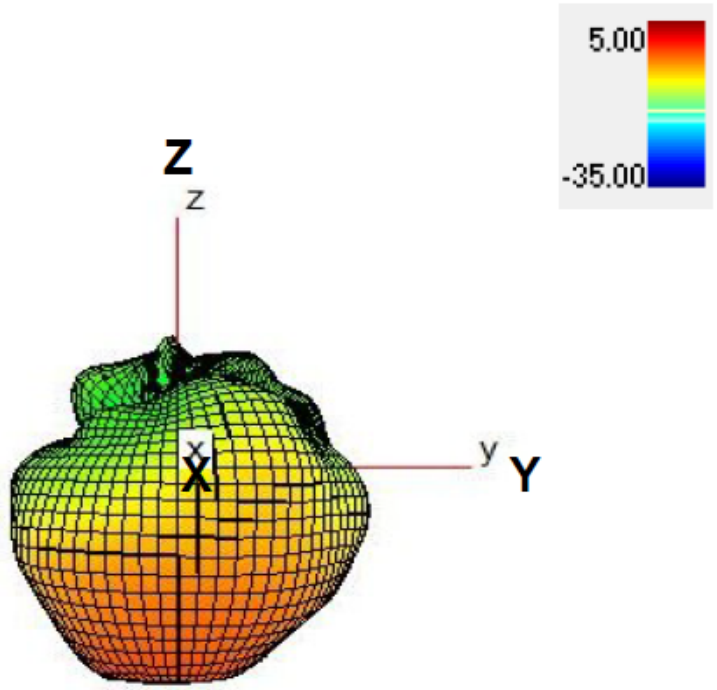
ELECTRICAL CHARACTERISTICS

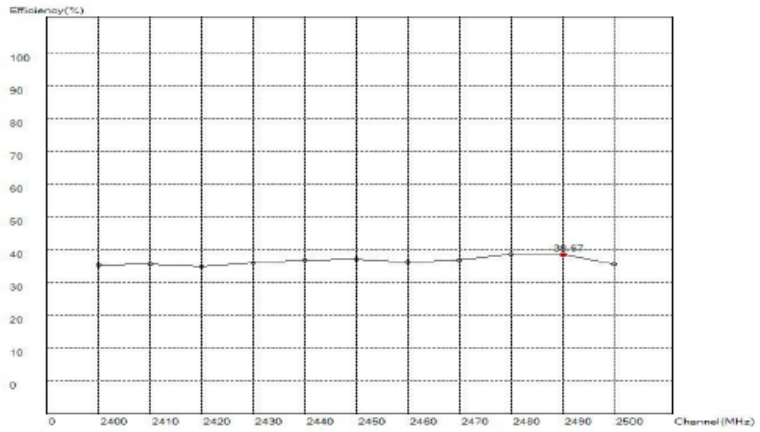
Return Loss



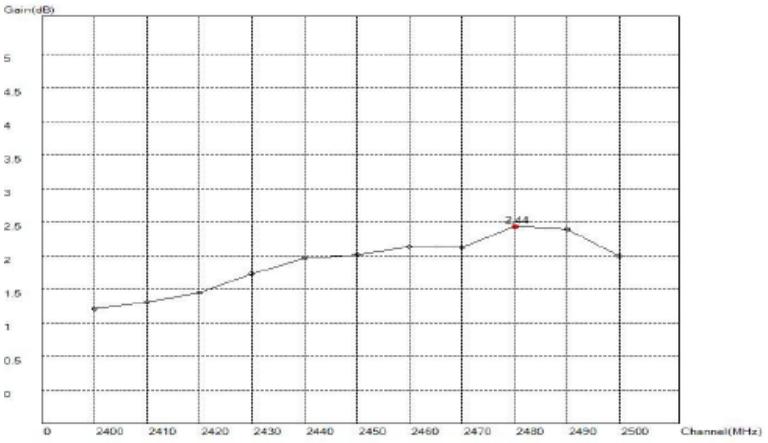
Antenna Efficiency and Peak Gain

2450MHz





Maximum Efficiency at 2490 MHz 38.67%



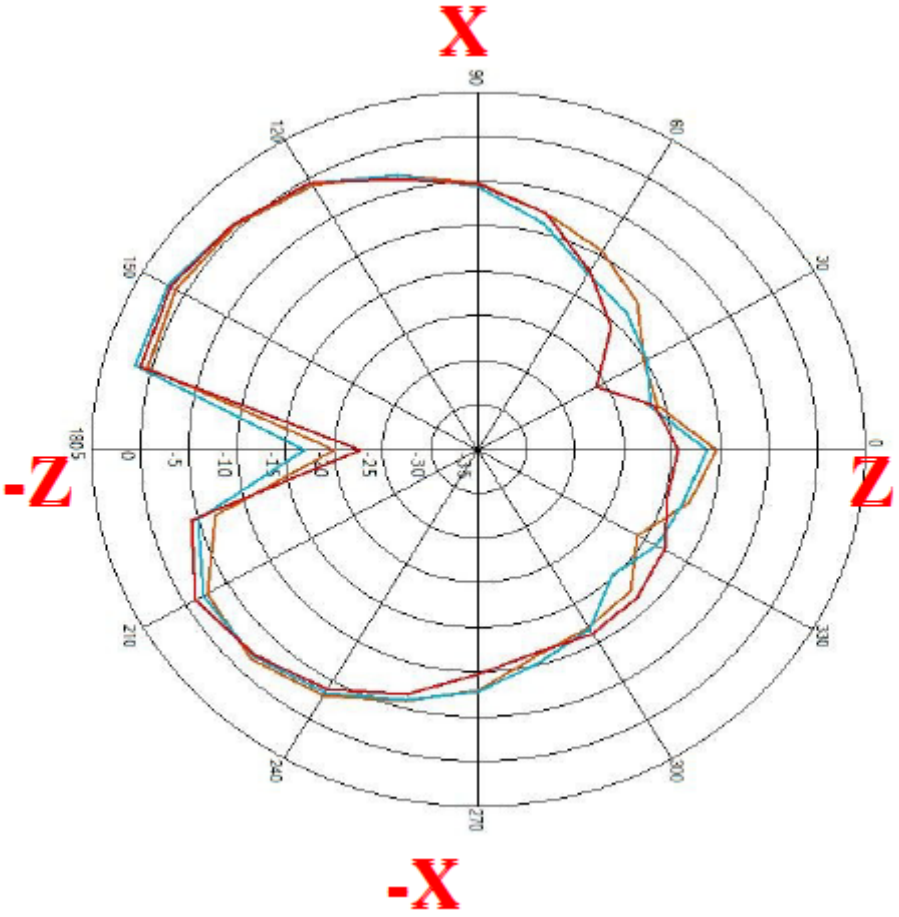
Maximum Peak Gain at 2480 MHz: 2.44dBi

RADIATION PATTERN

2400~2500 MHz

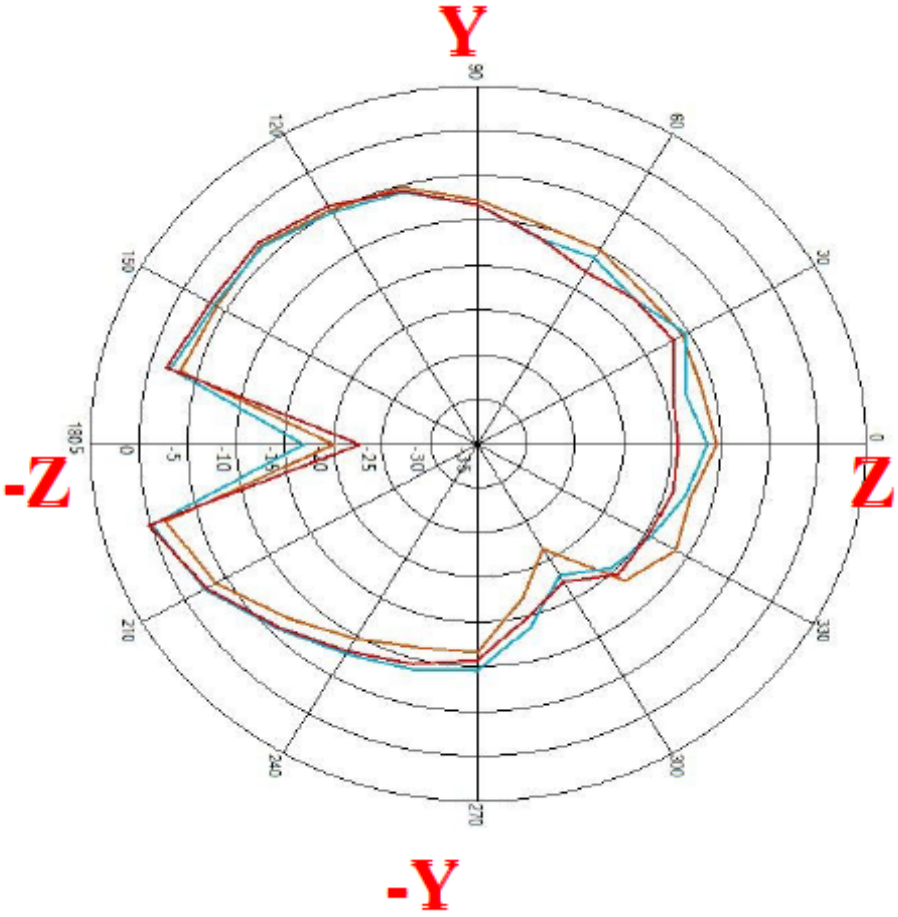
Phi=0.00deg

Gain . dB



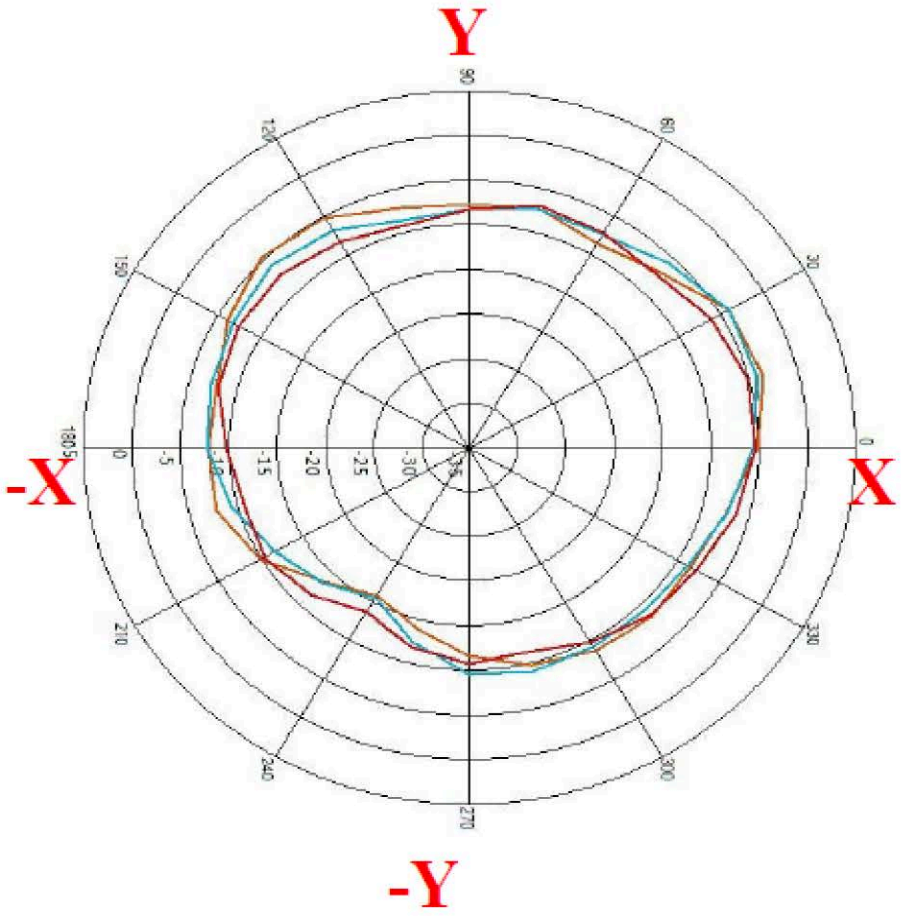
Phi=90.00deg

Gain . dB



Theta=90.00deg

Gain . dB



	XZ-Plane		YZ-Plane		XY-Plane	
Frequency [MHz]	Max. Value (dB)	Ave. Value (dB)	Max. Value (dB)	Ave. Value (dB)	Max. Value (dB)	Ave. Value (dB)
2400 MHz	1.14	-4.89	-1.57	-7.58	-3.43	-7.21
2450 MHz	2.44	-4.56	-0.20	-7.06	-3.81	-7.49
2500 MHz	1.74	-4.73	0.12	-7.01	-4.96	-7.99