Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

APPROVAL SHEET

PCB ANTENNA

2.4 GHz Band Working Frequency

Halogens Free Product

P/N: RFPCA331630IMAB301

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	2015 Oct.	New Release	HWCHAN

ELECTRICAL CHARACTERISTICS

Item	Specification
Frequency Range	2.4 ~ 2.5 GHz
Impedance	50 Ohm Nominal
Return Loss	-10 dB (Max)
Peak Gain	3.96 dBi
VSWR	2.0 (Max)
Radiation	Omni-directional
Polarization	Linear Vertical
Admitted Power	1W

*note-1: Electrical characteristics will depend on customer's final application.

MATERIAL TABLE

Items	Description
Cable	§ 1.13(Gray)
FPC Antenna	FR4(綠漆板) T=0.6mm
Connector	IPEX

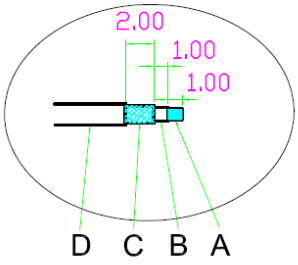
ORDERING RULE

RF	PCA	3316	30	I	M	A	B	3	01
Type Code	**Product Code**	**PCB Dimension (Unit: mm)**	**Cable Length (unit: cm)**	**Connector Brand**	**Type of Connector**	**Application**	**Project status**	**Wire Diameter**	**Project**
Walsin RF Device	PCA: PCB Antenna	Per 2 digits of length, width e.g.:3316 Length 33.5mm, Width 16.6mm	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: 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 3:⌀ 1.13 6:RG316 7:⌀ 1.37 8:RG178	01~99 series number

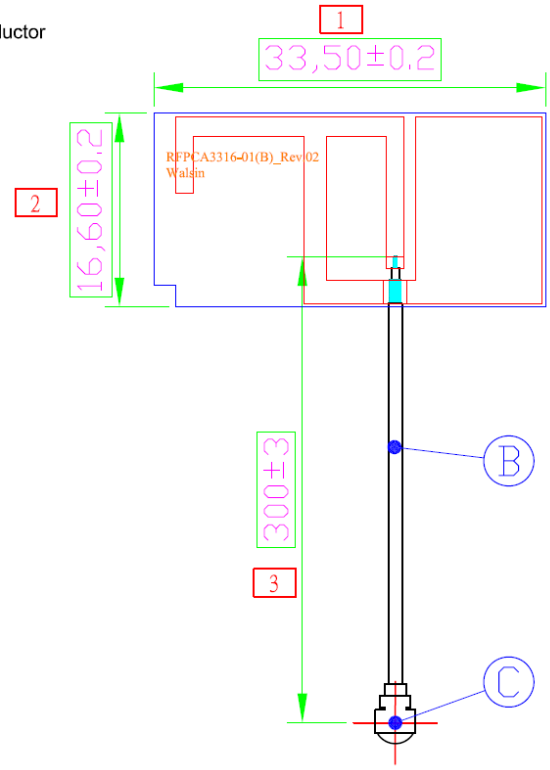
Appendix A: Dimensions

NO	DESCRIPTION		QTY	REMARK
A	Body	FR4(T=0.6mm),綠漆	1	
B	Coaxial cable	φ1.13 Cable(Gray)	1	
C	Connector	IPEX	1	

ELECTRICAL
Frequency : 2.4 GHz



A - center conductor
B - Dielectric
C - Outer conductor
D - Jacket



需注意接頭方向

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

※標記□記號者，為重點檢驗尺寸

LTR	DESCRIPTION	DATE	REQ. BY

設計 DR. HWCHAN 2015.10.15
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: RFPCA331630IMAB301
版本 REV.: A
單位 UNIT: mm
比例 SCALE: ****
張數 SHEET: 1

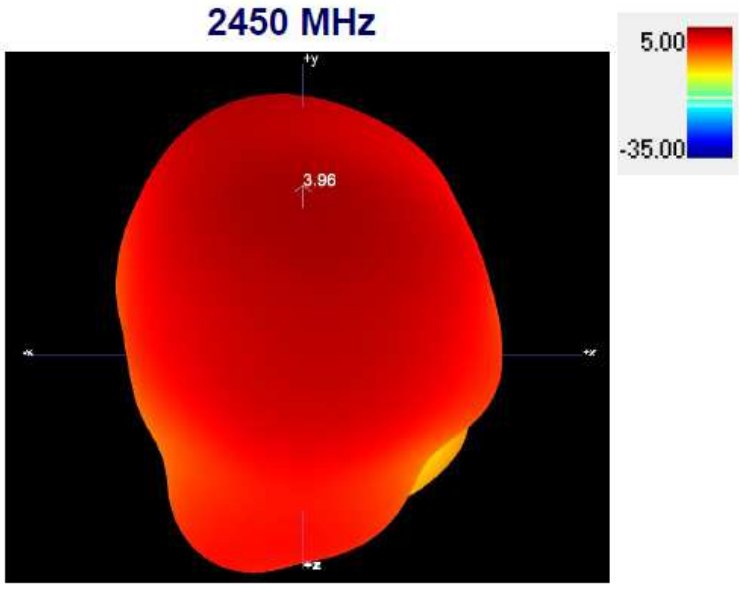
華新科技股份有限公司
Walsin Technology Corporation

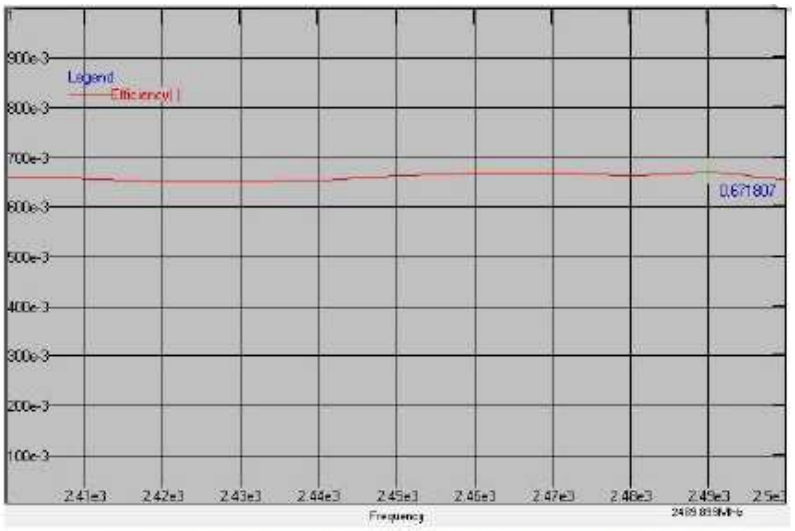
Test Report

ELECTRICAL CHARACTERISTICS

Return Loss

Antenna Efficiency & Peak Gain





Maximum Efficiency at 2490 MHz : 67.18%

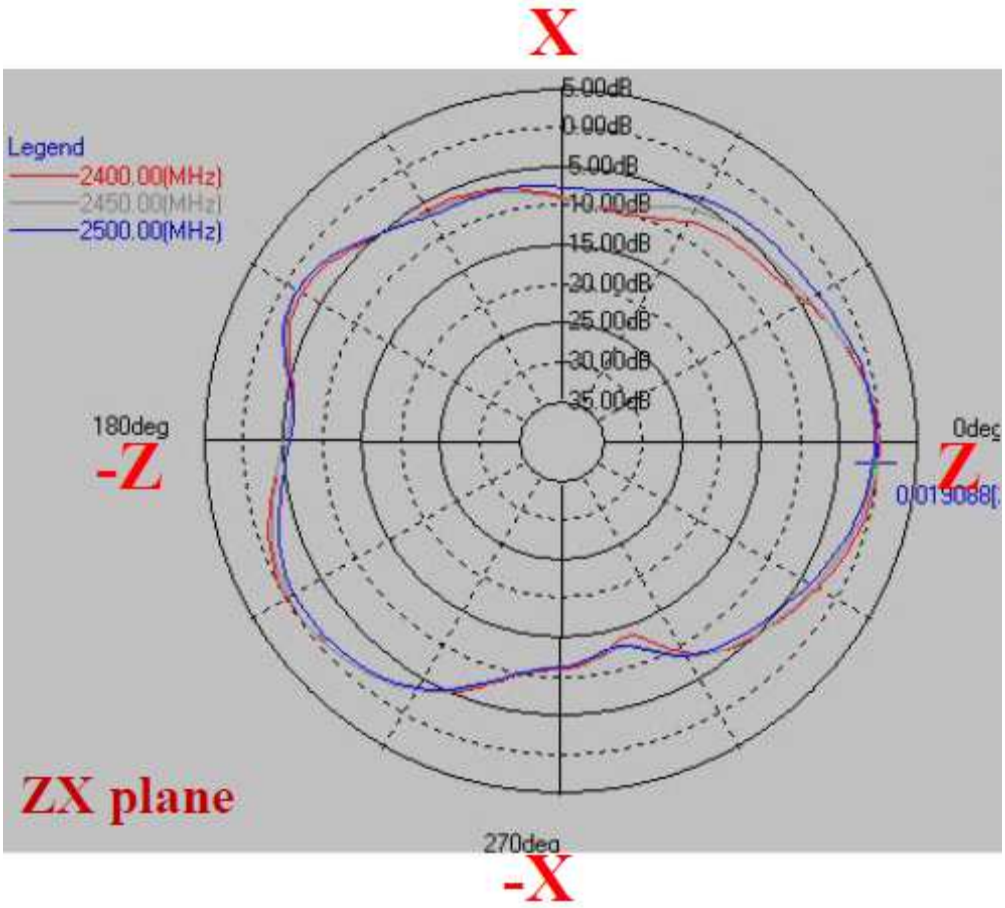
Maximum Peak Gain at 2450 MHz : 3.96 dBi

RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

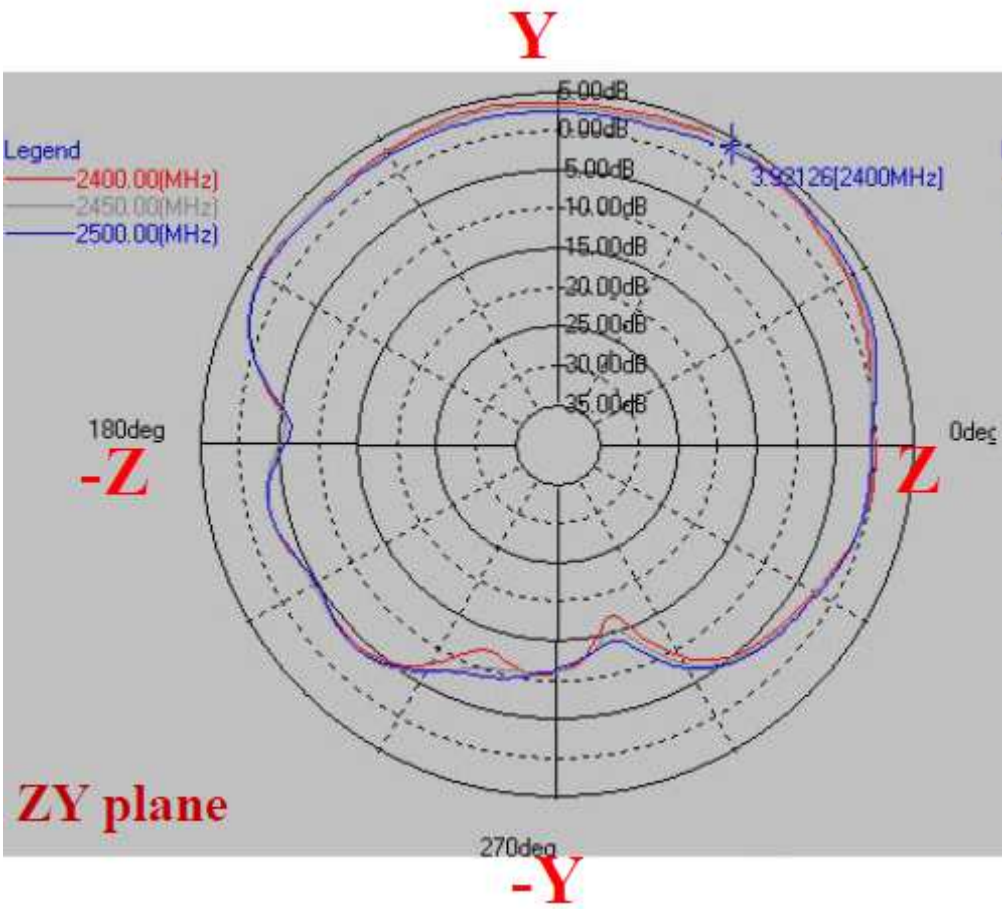
Gain . dB



	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	0.02	-4.00
2450	-0.39	-4.02
2500	-0.42	-4.02

Phi=90.00deg

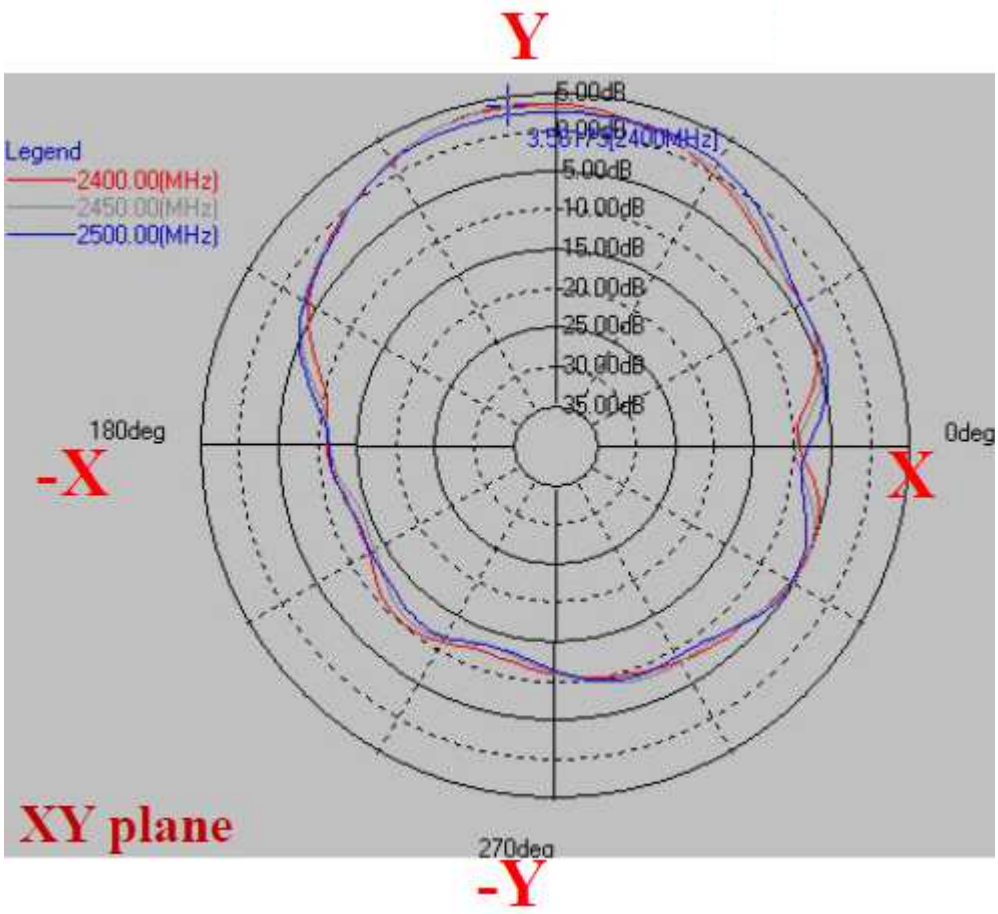
Gain . dB



	ZY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	3.92	0.26
2450	3.96	0.21
2500	3.55	-0.04

Theta=90.00deg

Gain . dB



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	3.56	-2.85
2450	3.23	-2.92
2500	2.28	-2.97