



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

Metal Stamping Antenna
2.4/5.x GHz Dual Band Working Frequency
P/N: RFMTA250800NNLB001

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

Version	Date	Description	Author
V01	2015 Jun.	New Release	HWCHAN
V02	2015 Sep.	變更鐵件尺寸	PIPI

Antenna Specification

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~5.85 GHz
Return Loss	-10dB(Max)
Peak Gain	2.64 dBi(@2.4 ~ 2.5 GHz) 4.48 dBi(@5.15 ~5.85 GHz)
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω

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

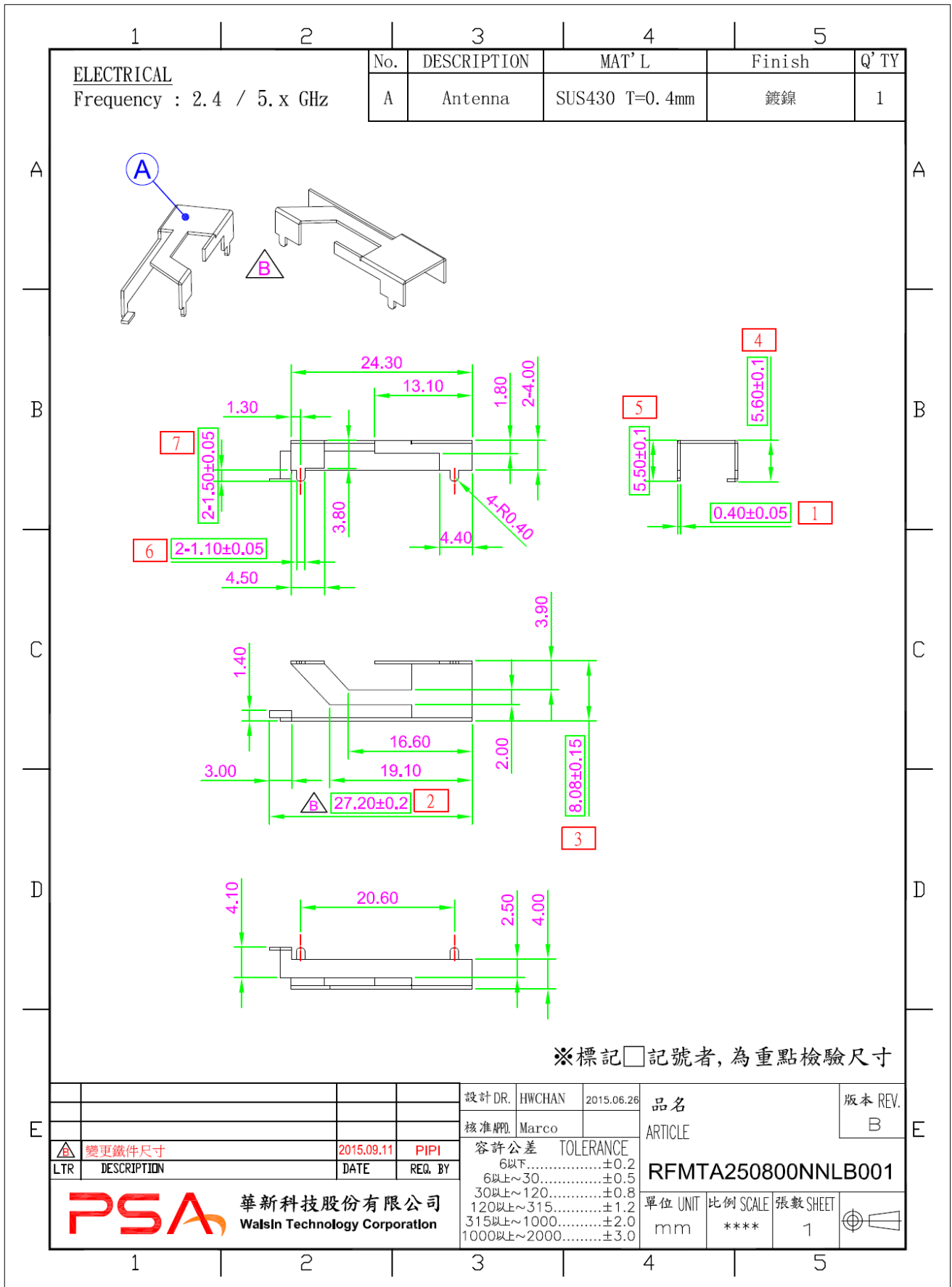
MATERIAL TABLE

Items	Description
Antenna Material	SUS430 T=0.4 mm(鍍鎳)

ORDERING RULE

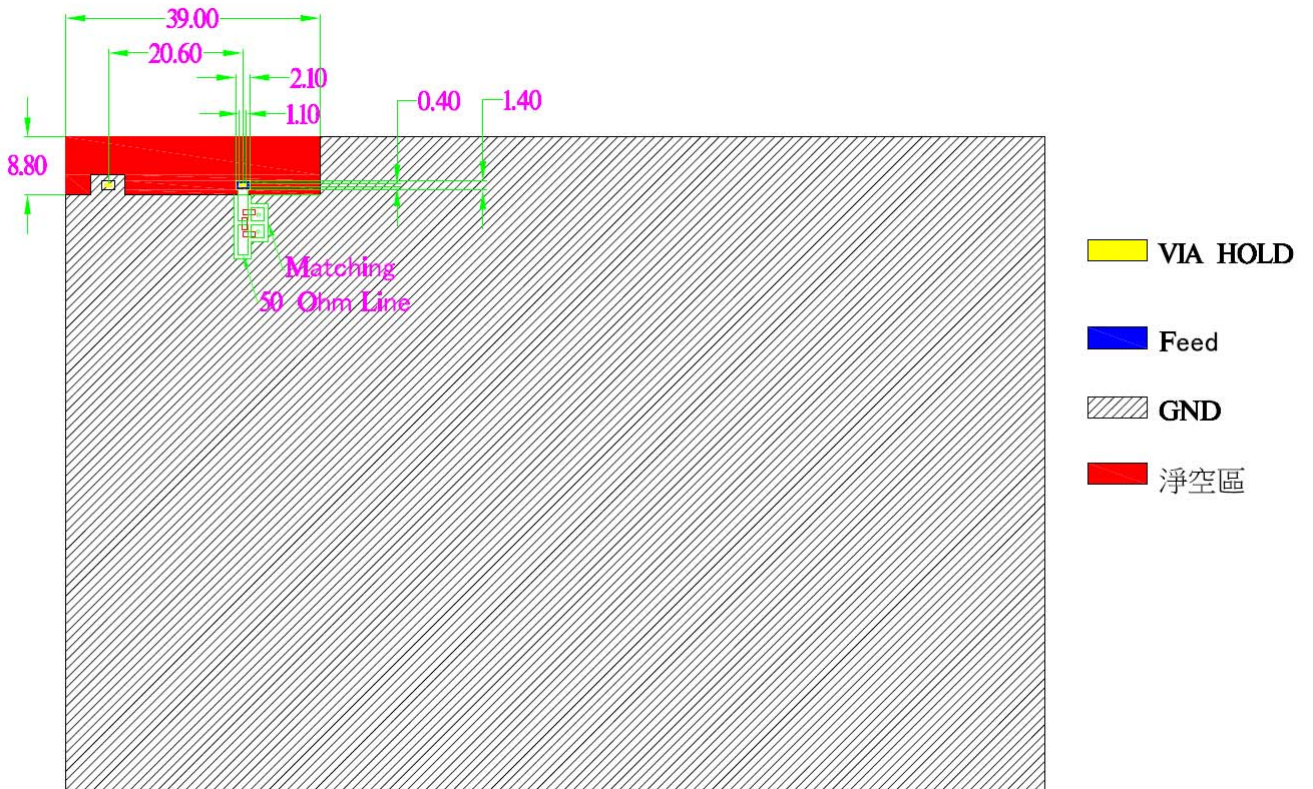
RF	MTA	2508	00	N	N	L	B	0	01
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	MTA: Metal Antenna	Per 2 digits of length, width e.g.: 2508 Length 25.70mm, Width 8.08mm	2 digits for cable length e.g.: 00 None Length	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



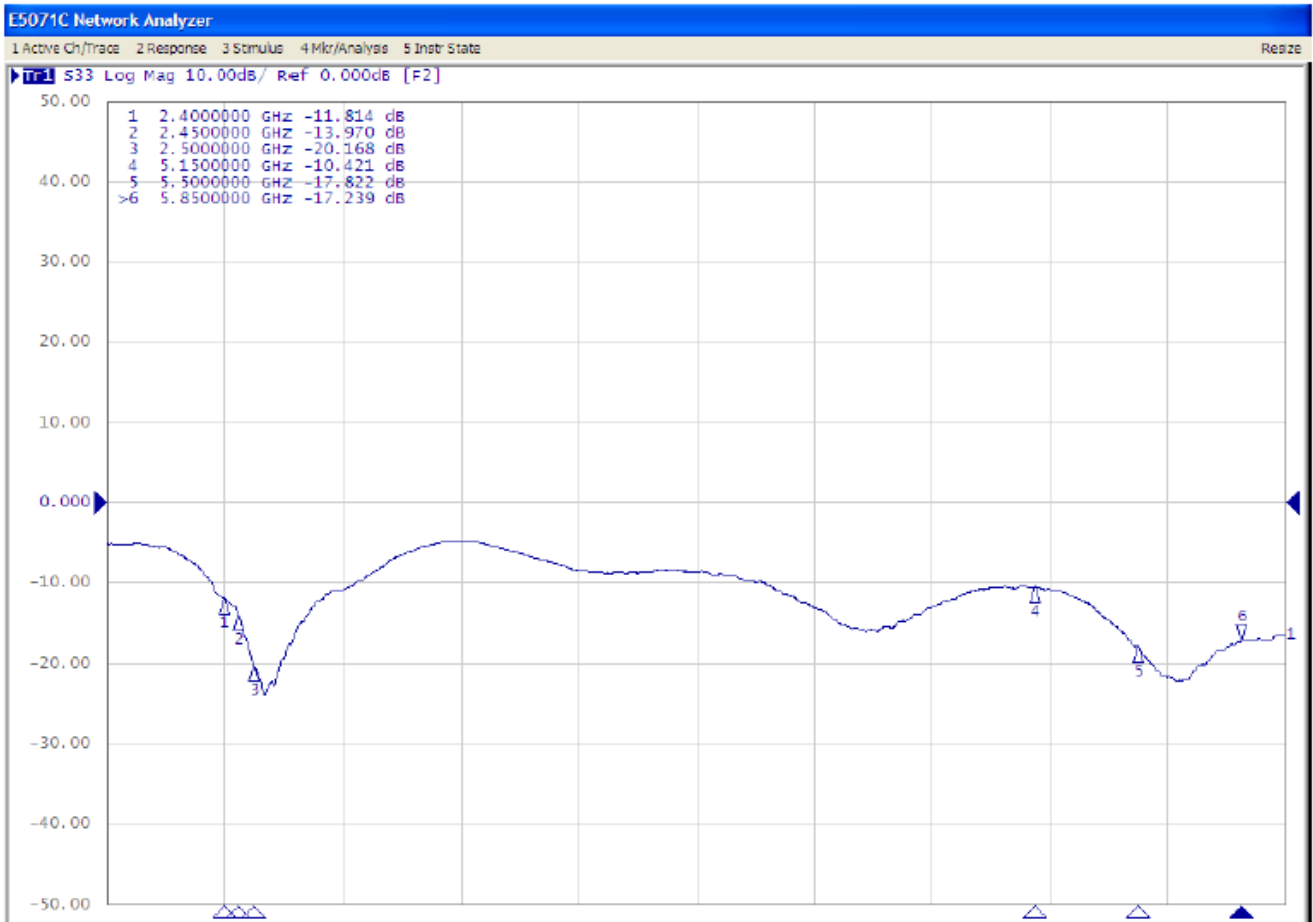
Test Report

PCB Layout



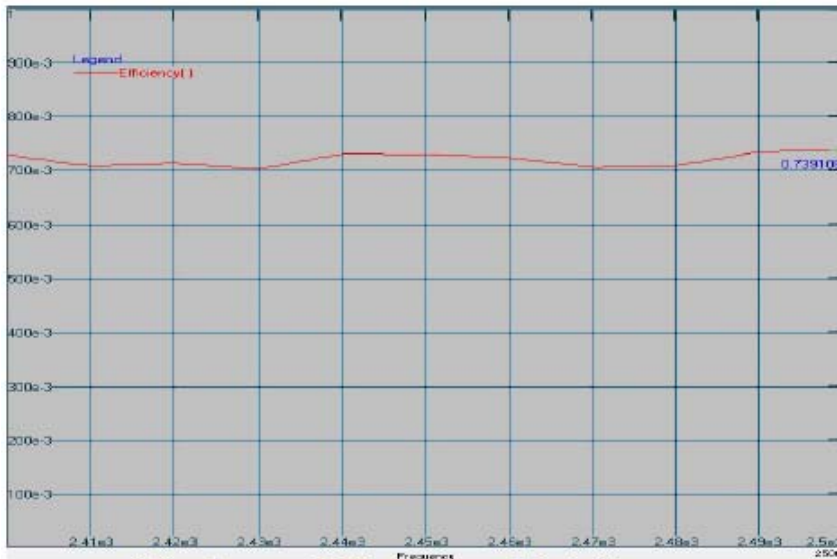
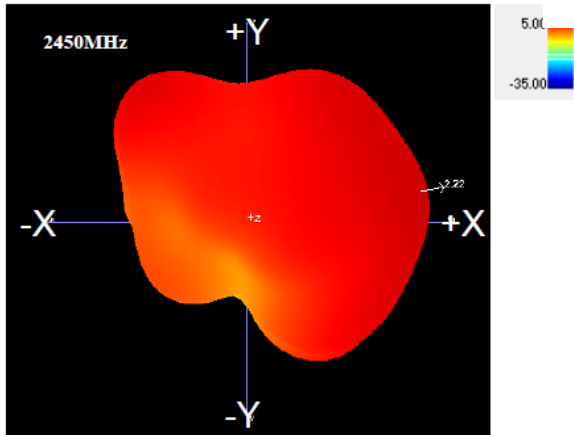
ELECTRICAL CHARACTERISTICS

Return Loss

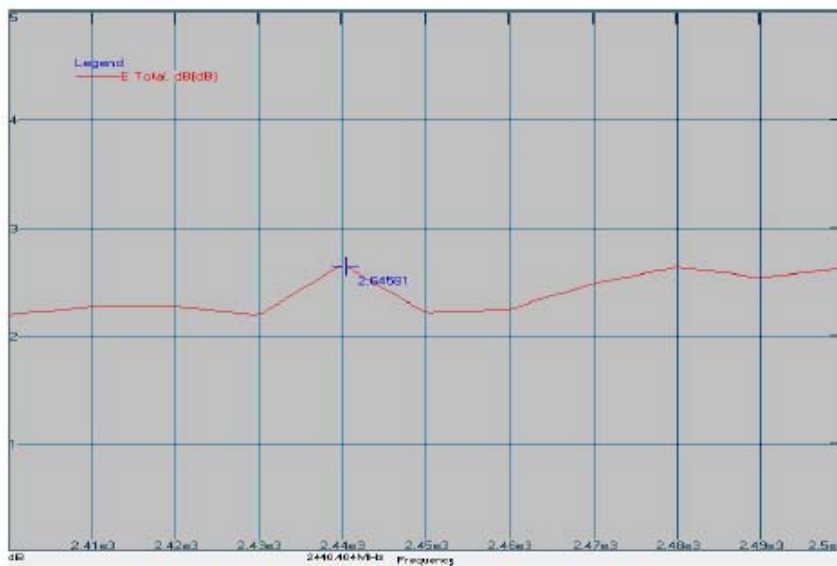


Antenna Efficiency and Peak Gain

@2G
f(c)@2450MHz

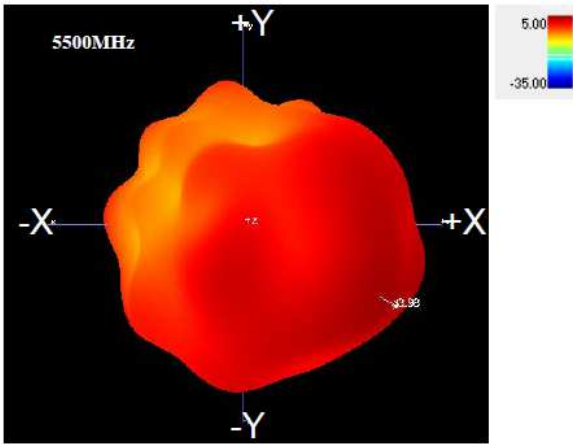


Maximum Efficiency : 73.9 %

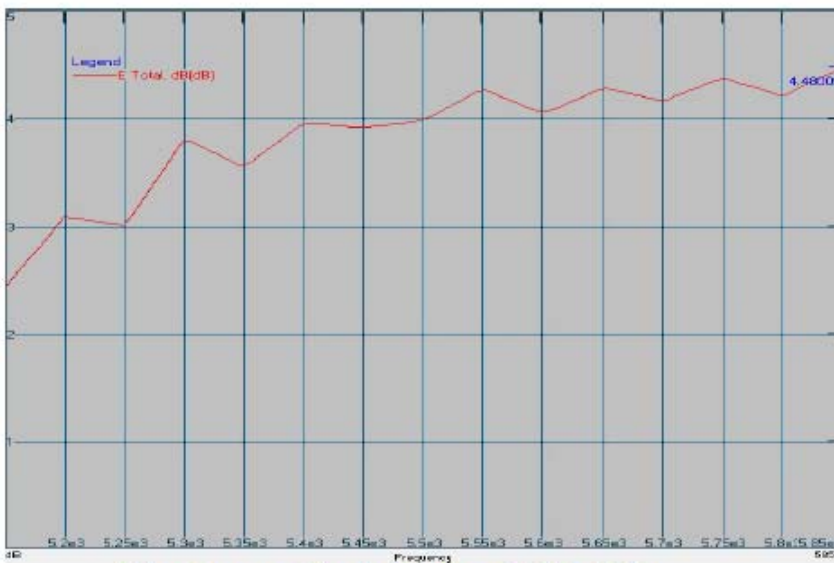


Maximum Peak Gain : 2.64 dBi

@5G
f(c)@5500MHz



Maximum Efficiency : 77.1 %



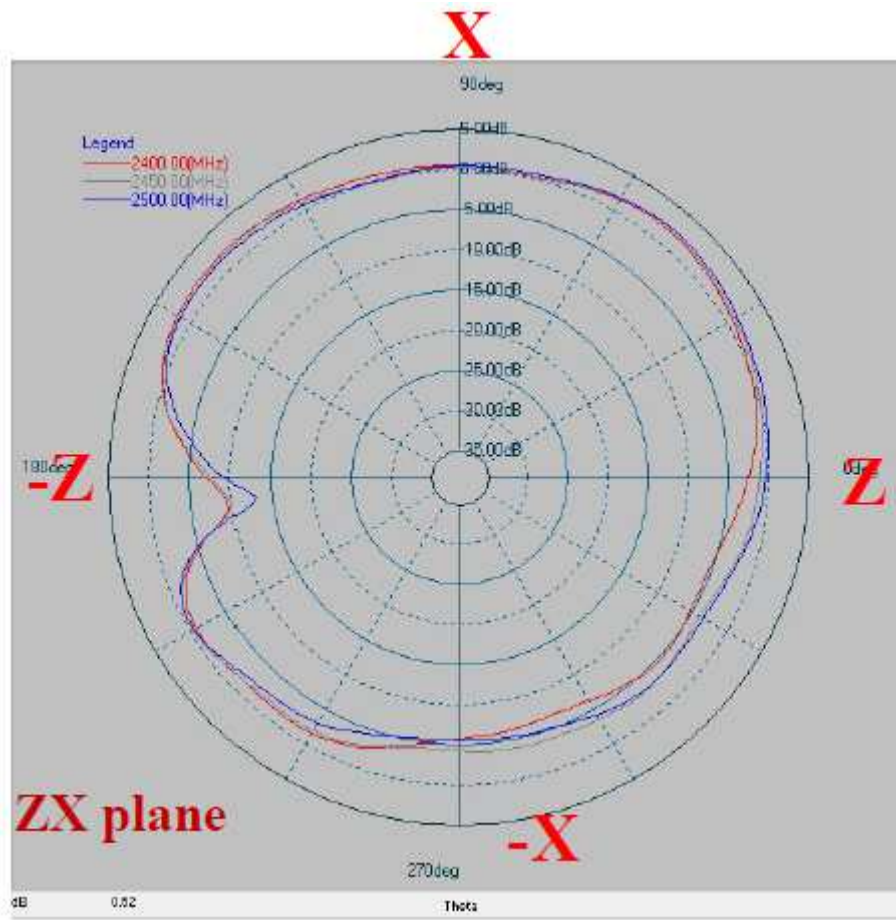
Maximum Peak Gain : 4.48 dBi

RADIATION PATTERN

2400~2500 MHz

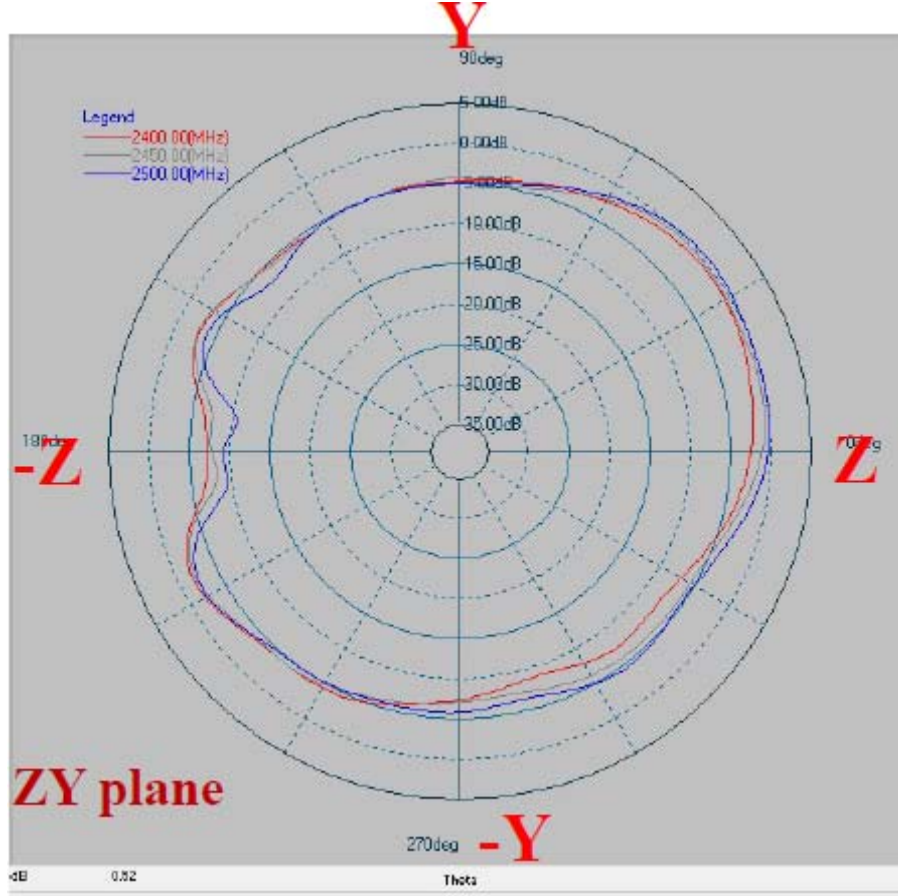
Phi=0.00deg

Gain . dB



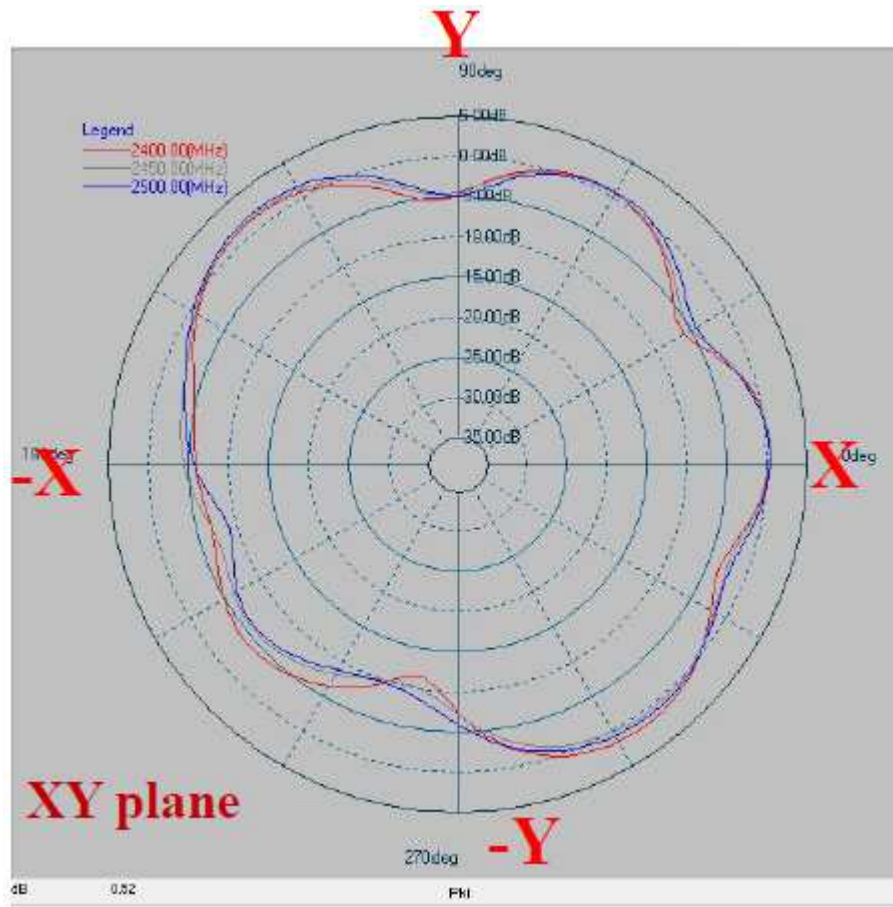
Phi=90.00deg

Gain . dB



Theta=90.00deg

Gain . dB

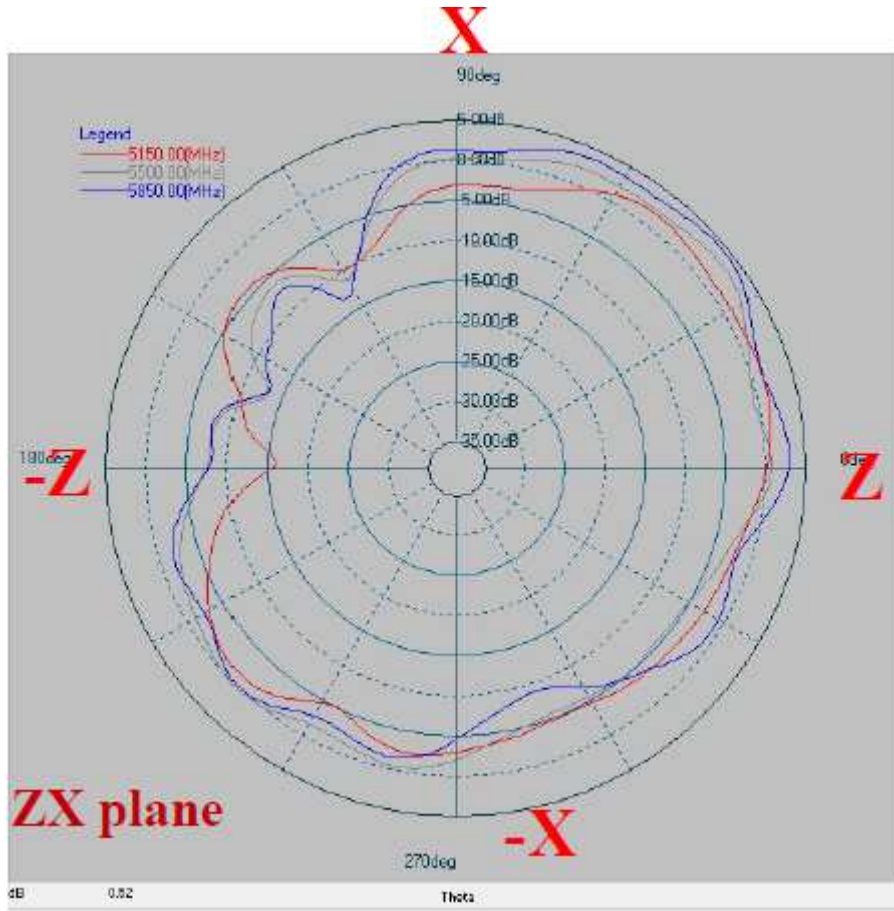


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	2.10 dB	-1.03 dB	-0.65 dB	-4.11 dB	1.58 dB	-1.92 dB
2450	2.10 dB	-0.80 dB	-0.26 dB	-3.81 dB	1.53 dB	-1.99 dB
2500	2.26 dB	-0.87 dB	0.48 dB	-3.58 dB	1.88 dB	-1.78 dB

5150~5850 MHz

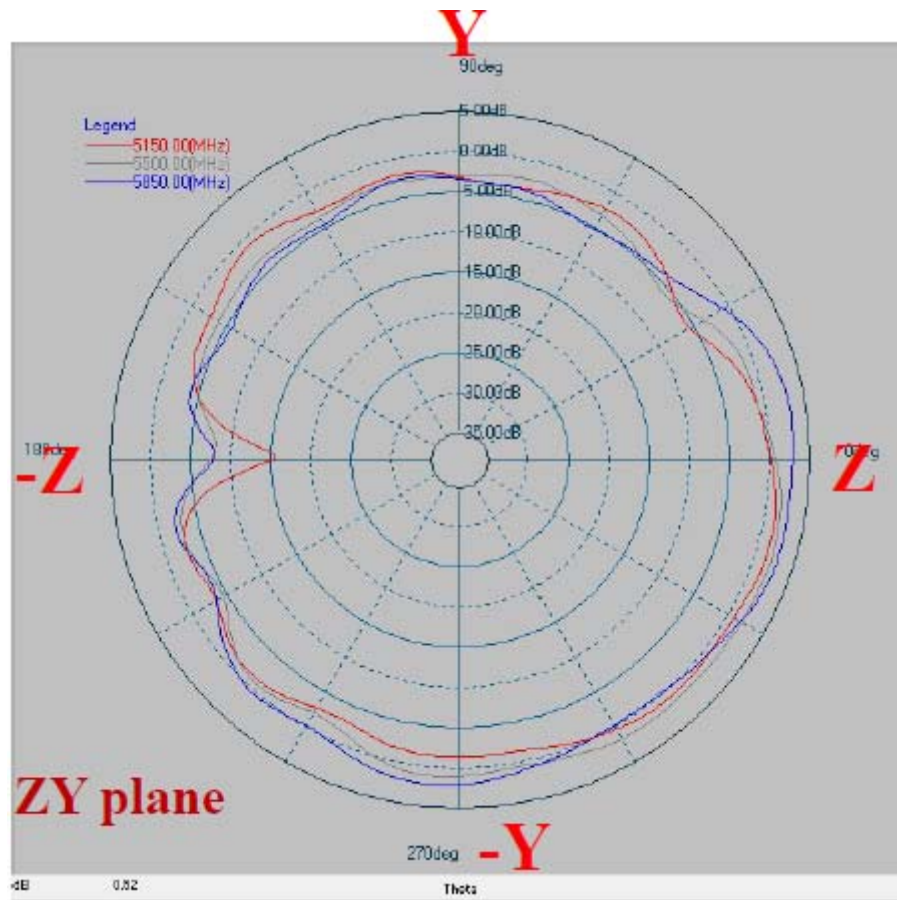
Phi=0.00deg

Gain . dB



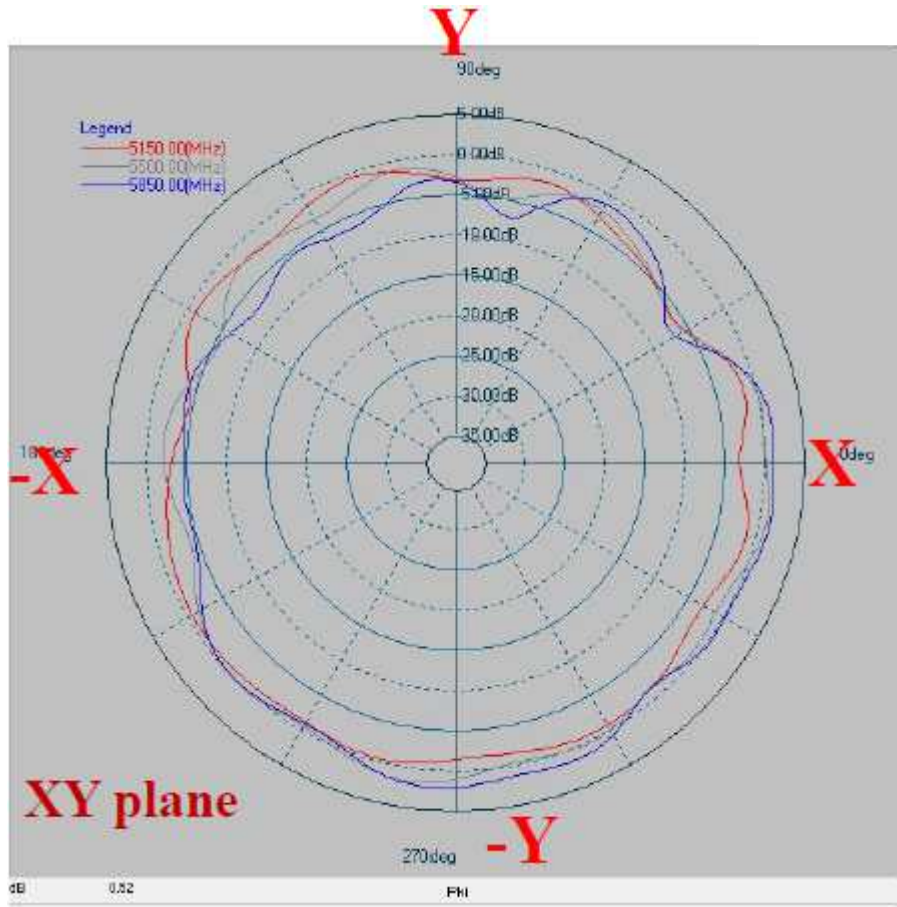
Phi=90.00deg

Gain . dB



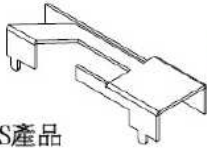







Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	1.77 dB	-2.56 dB	1.48 dB	-1.80 dB	-0.48 dB	-1.95 dB
5500	3.19 dB	-1.51 dB	2.14 dB	-1.22 dB	1.64 dB	-1.43 dB
5850	4.45 dB	-0.66 dB	3.05 dB	-0.66 dB	2.09 dB	-1.41 dB

Packaging

華新科技股份有限公司																							
RFMTA250800NNLB001包規			頁次： 1 之 1																				
			規章編號：		版次：A版																		
			制修訂日期：2015/7/13																				
產品包裝圖示：																							
圖一																							
 單PCS產品	→	 每盤140pcs,	→	 每匣35盤加一個空盤																			
圖二																							
 纏繞膜纏好后貼成品標籤	→	 每箱裝1匣																					
圖三																							
 封箱	→	 貼成品標籤																					
產品包裝規範：																							
1.將產品放入吸塑盤，每格1PCS,每盤140PCS,除尾數盤外,產品放入吸塑盤時要注意方向正確且方向保持一致,不可錯亂;上下盤須錯開疊放。																							
2.每35盤再加一個空盤為一匣，上下各放一塊紙板再用纏繞膜以“丰”字形密封好再貼上成品條碼標籤;（注：用纏繞膜纏時勿纏太緊，以防產品變形），每匣35*140=4900pcs,除尾數																							
3.產品放于紙箱中時不能高出紙箱頂部;每箱裝1匣,4900PCS*1=4900PCS/箱，除尾數箱外																							
製標圖示：實物標籤內容僅作參考 具體內容以出貨料號為準																							
 <p>(NO 1.): Spec desc. (NO 2.): 料號 批號 數量(PN & LOT & QTY) (NO 3.): 盤點條碼 (Inventory check barcode) (NO 4.): 列印時間-總張數 (print system time-total piece this print) (NO 5.): 表示 BULK LOT (NO 6.): 表示該張標籤流水序號</p>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>變更時間</th> <th>變更版別</th> <th>變更內容</th> </tr> </thead> <tbody> <tr> <td>2015/7/13</td> <td>A版</td> <td>新版發行</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			變更時間	變更版別	變更內容	2015/7/13	A版	新版發行												
變更時間	變更版別	變更內容																					
2015/7/13	A版	新版發行																					
核准：	張志偉	審核：	尤印化	制定：	潘丹鳳																		