



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!



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APPROVAL SHEET

Metal Stamping Antenna
2.4 GHz Working Frequency
P/N: RFMTA280715IMAB301

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

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 GHz (Note-1)
Gain(Peak)	2.4 GHz : 2.82 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω

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

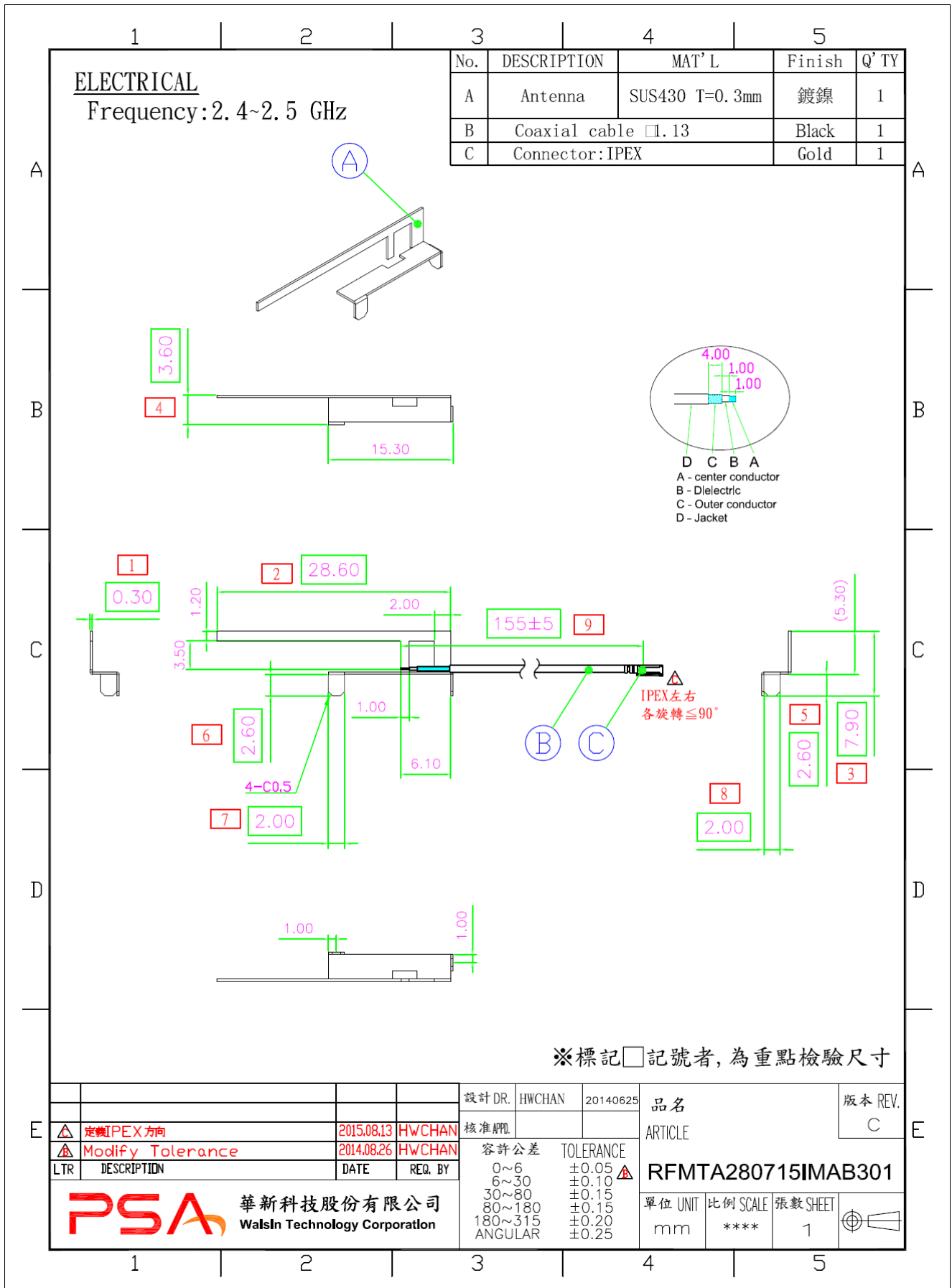
MATERIAL TABLE

Items	Description
Antenna Material	SUS430 鍍鎳 T=0.3mm
Coaxial Cable	Ø1.13(Black)
Connector	IPEX

ORDERING RULE

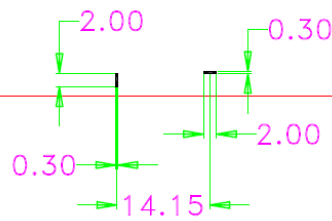
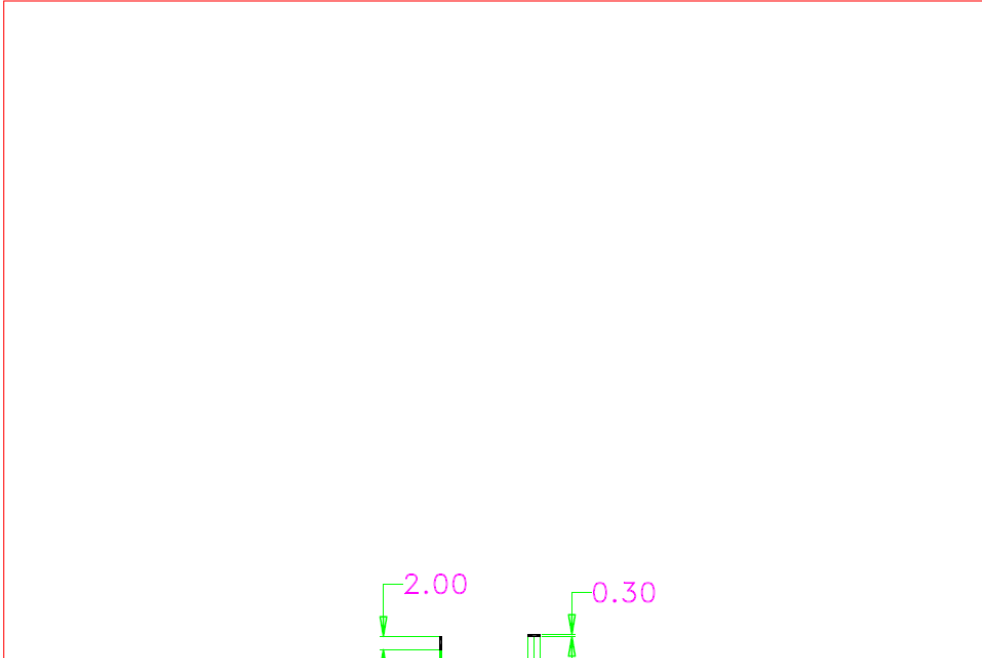
RF	MTA	2807	15	I	M	A	B	3	01
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	MTA: Metal Antenna	Per 2 digits of length, width e.g.: 2611 Length 26.55mm, Width 11.30mm	2 digits for cable length e.g.: 00 None Cable	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:∅0.81 3:∅1.13 6:RG316 7:∅1.37 8:RG178	01~99 series number

DIMENSIONS



Test Report

■ PCB Layout

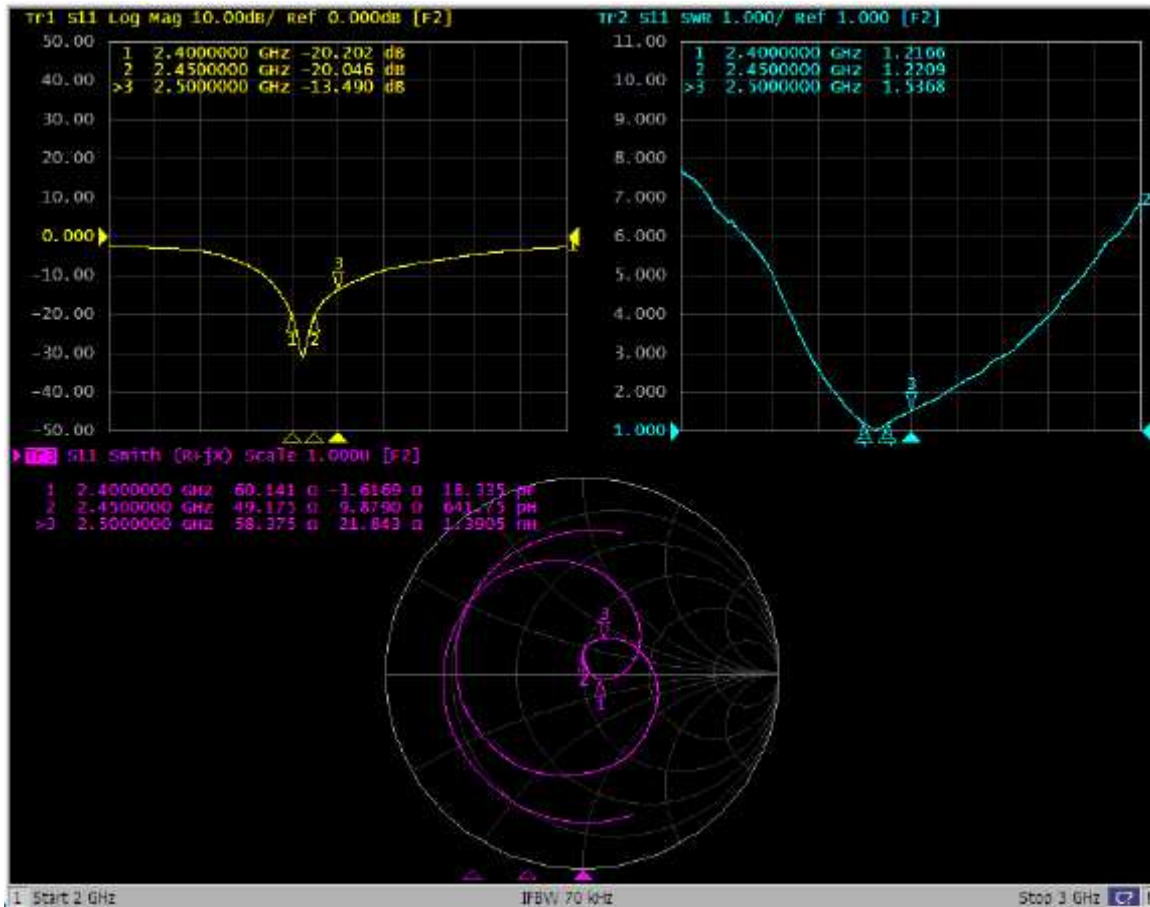


■ GND

天線不需淨空區

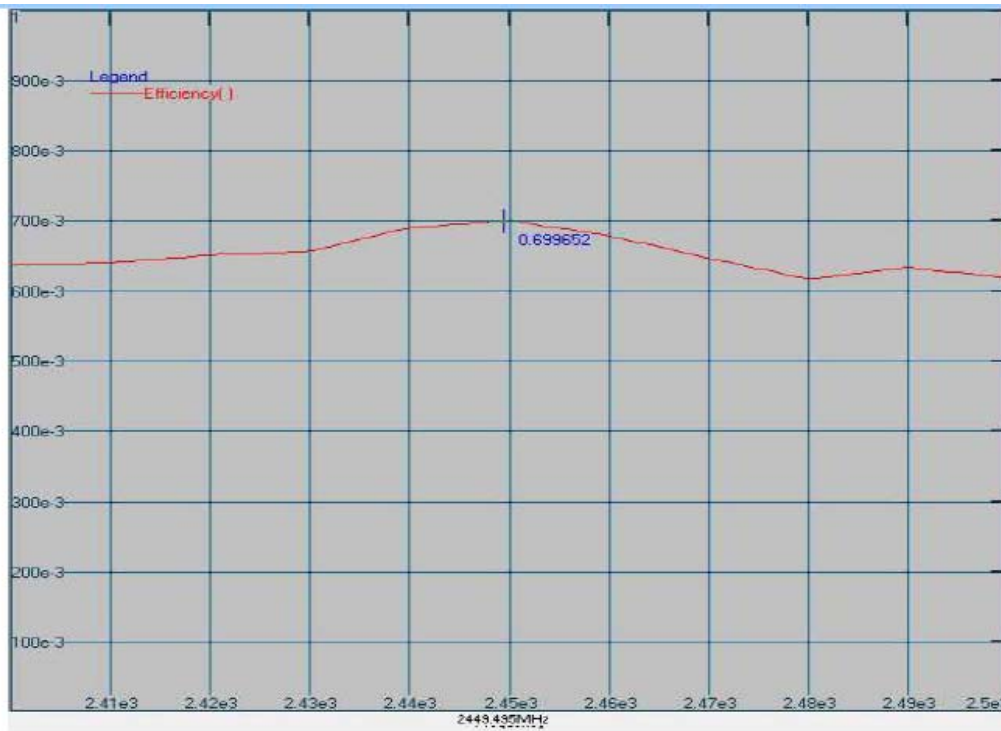
Electrical Characteristics

Return Loss & VSWR & Smith Chart

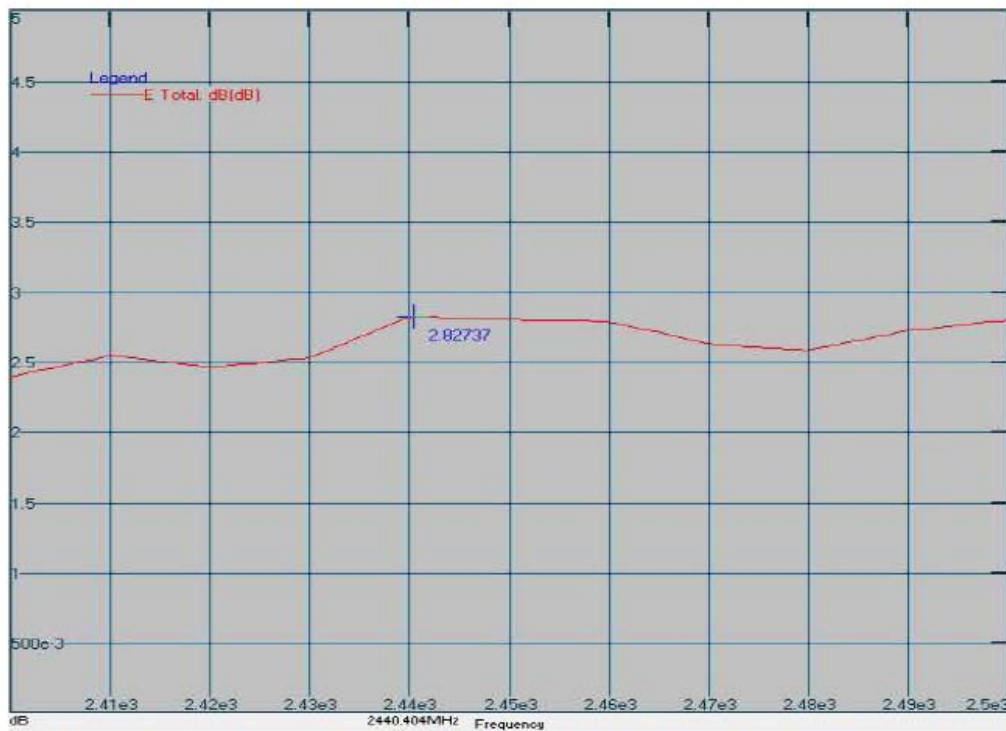


Antenna Peak Gain

2400~2500 MHz



Max: 69.9 % Min: 62.5 % Ave:66.2%

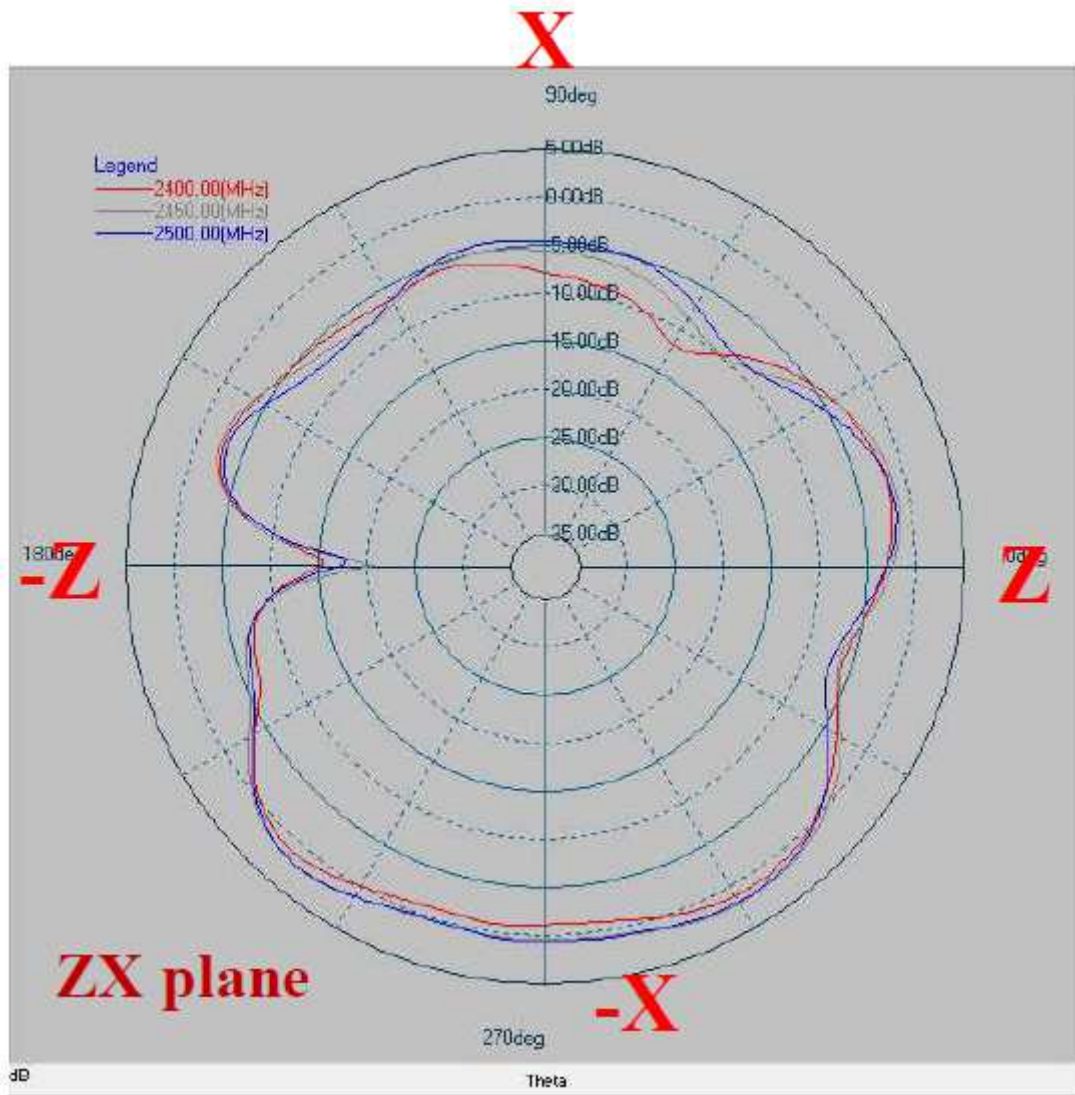


Max Peak Gain : 2.82 dBi Min Peak Gain : 2.46 dBi

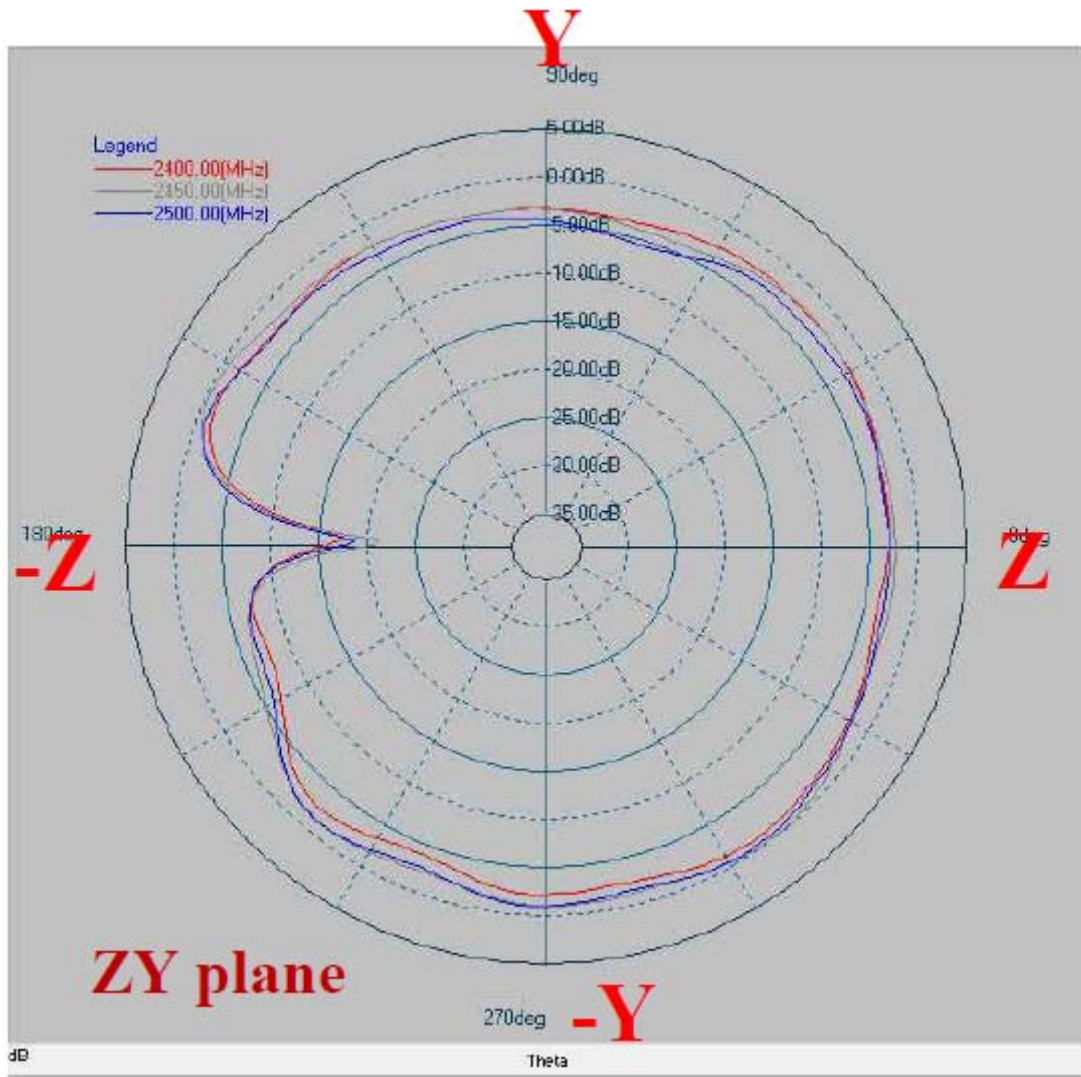
RADIATION PATTERN

2400~2500 MHz

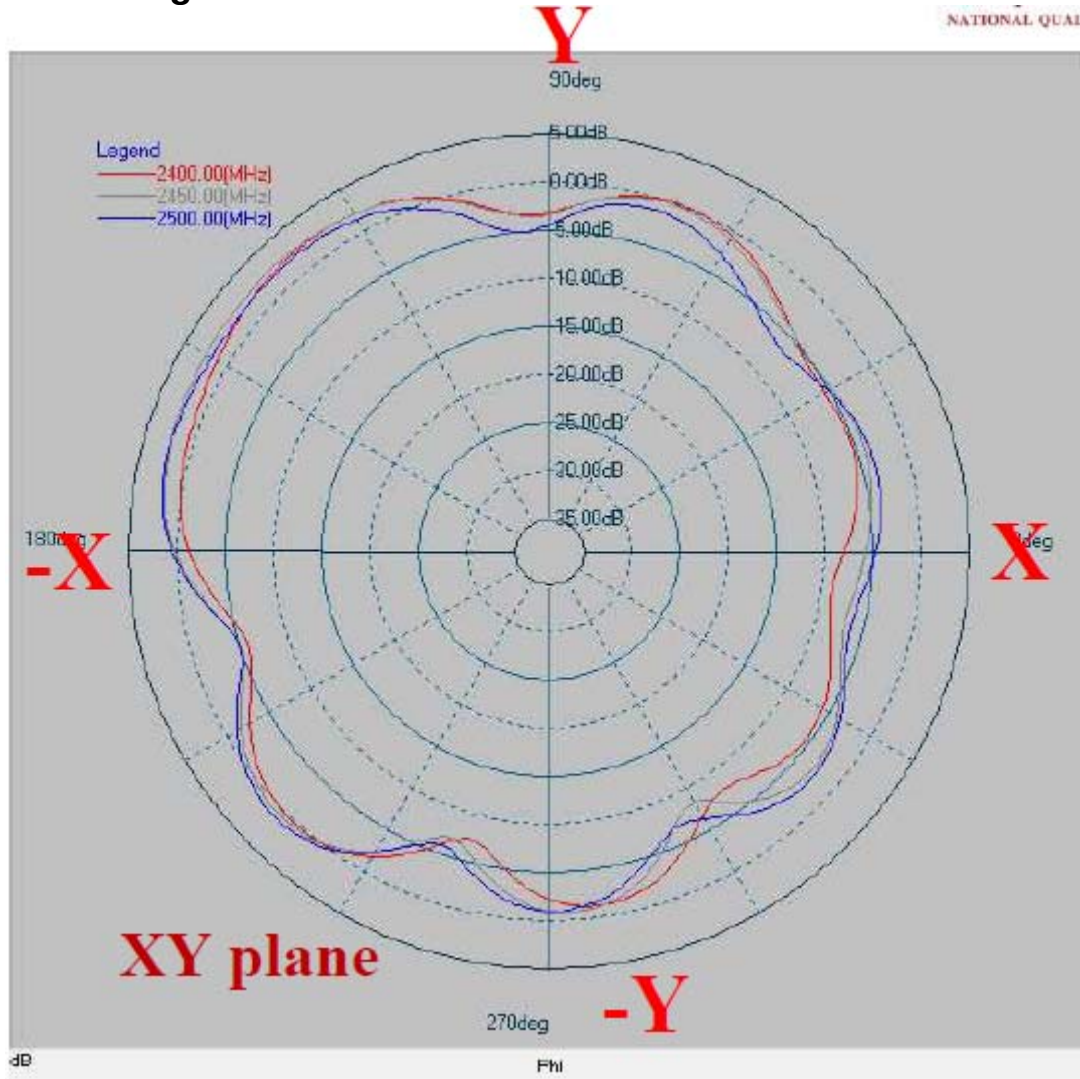
Phi=0.00deg



Phi=90.00deg



Theta=90.00deg



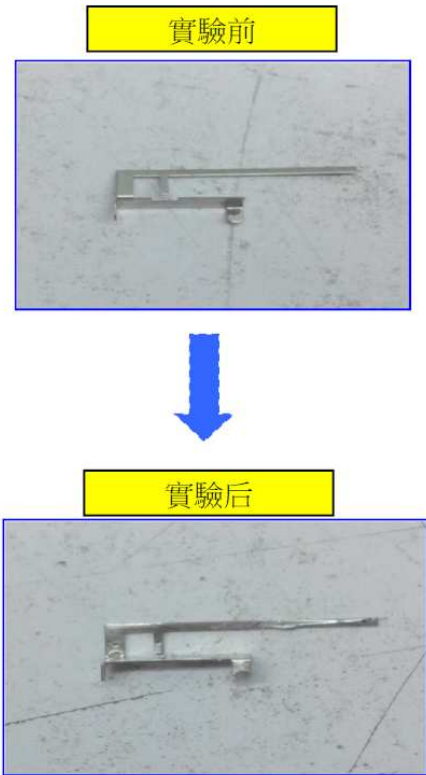
Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.11 dB	-3.08 dB	-1.14 dB	-3.09 dB	2.27 dB	-1.95 dB
2450	1.98 dB	-2.24 dB	-0.15 dB	-2.49 dB	2.57 dB	-1.34 dB
2500	1.92 dB	-2.44 dB	-0.50 dB	-2.94 dB	2.26 dB	-1.60 dB

RELIABILITY TEST

 華新科技股份有限公司 Walsin Technology Corporation		編號	日期	頁次							
			2014/7/22	1/1							
RFMTA280715IMAB301實驗報告		核準	審核	作成							
		何耀輝	張濤	徐小红							
實驗名稱:	拉力測試										
實驗目的:	驗證IPEX鉚壓后其拉力是否OK										
實驗設備:	拉力測試機										
實驗人員:	徐小红										
實驗日期:	2014/7/22										
實驗步驟:	1.取5PCS鉚壓好IPEX的樣品進行拉力測試，步驟如下：										
	 組裝IPEX后產品										
	 測試結果										
	2. 拉力測試數據如下：										
	拉力測試規格：≥1.5Kg										
NO	1	2	3	4	5						判定
測試值	1.7	1.4	1.34	1.5	1.64						OK
MAX :	1.7	MIN	1.34	\bar{X} :	1.516						
實驗結論:	取5PCS產品進行拉力測試，其拉力值均在規格範圍內，判定為OK。										



 蘇州華科電子有限公司

Antenna 可靠度測試報告

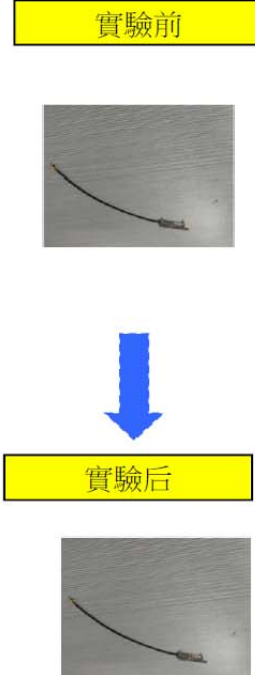
料號：	RFMTA280715IMAB301	申請日期：	2014/8/1
批號：	NA	實驗數量：	5 PCS
測試項目	沾錫性實驗		
測試設備	錫爐		
測試條件	錫爐溫度：260°C±10°C	時間：10S±2S	實驗前、實驗后 圖片對比 <div style="text-align: center;">  </div>
NO.	實驗結果		
1	OK		
2	OK		
3	OK		
4	OK		
5	OK		
6	/		
7	/		
8	/		
9	/		
10	/		
判定	OK		
備注：			

審核:李百京

測試:施建和


 蘇州華科電子有限公司

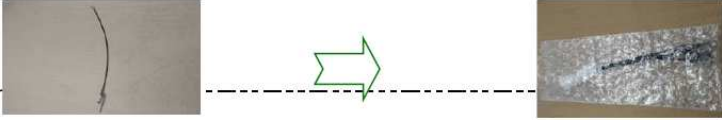

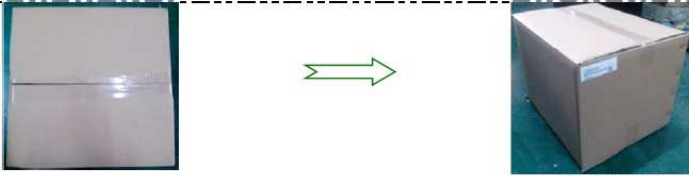

Antenna 可靠度測試報告

料號：	RFMTA280715IMAB301		申請日期：	2014/7/22	
批號：	NA		實驗數量：	5 PCS	
測試項目	中性鹽霧試驗		實驗前、實驗后 圖片對比		
測試設備	鹽霧試驗箱				
測試條件	鹽水濃度：5% 實驗箱溫度：35±1℃	實驗時間：24H 噴霧方式：連續			
測試對比	實驗前	實驗后			
NO.					
1	無氧化	無氧化			
2	無氧化	無氧化			
3	無氧化	無氧化			
4	無氧化	無氧化			
5	無氧化	無氧化			
6					
7					
8					
9					
10					
判定	OK				
備注：					

審核:李百京

測試:施建和

PACKAGE

華新科技股份有限公司																
RFMTA280715IMAB301 製品工程表	頁次：4 之 3															
	規章編號： 版次：A版															
	制修訂日期：2014/08/6															
產品包裝圖示：																
圖一																
單PCS產品	產品用气泡袋裝，一捆25pcs,一袋裝2捆															
圖二																
珍珠棉	外箱	珍珠棉放入外														
圖三																
封箱	貼成品標籤															
產品包裝規範：																
1.將每25pcs產品使用珍珠棉將IPEX端用珍珠棉加白色橡皮筋包裝,然後裝入气泡袋內，每袋裝2扎。																
2.將珍珠棉放入外箱中（如圖示二）																
3.將裝好的成品放入箱中，每箱2000pcs產品，上下各放一片珍珠棉，包裝好的外箱左上方需貼標籤。																
標籤需貼到最小包裝。																
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 style="text-align: center;">2014/8/6</td> <td style="text-align: center;">A版</td> <td style="text-align: center;">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> </tbody> </table>	變更時間	變更版別	變更內容	2014/8/6	A版	新版發行									
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核准：	何耀輝	審核：	徐小红													