



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 ~ 2.5 GHz Working Frequency
P/N: RFMTA271200NNAB001

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

Version	Date	Description	Author
V01	2015 Aug.	New Release	HWCHAN

Antenna Specification

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4 ~2.5 GHz
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	3.38 dBi
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω

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

MATERIAL TABLE

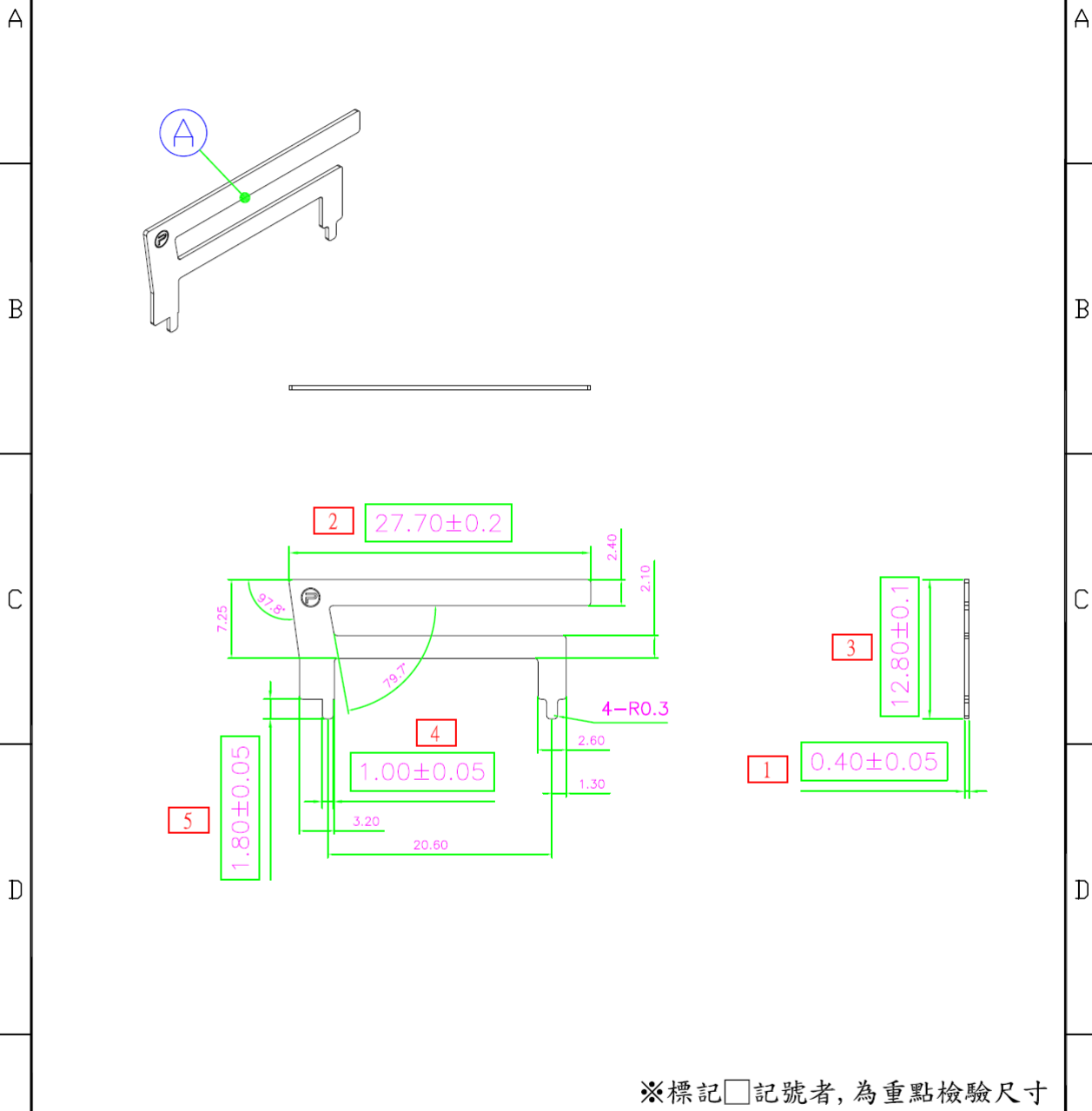
Items	Description
Antenna Material	SUS430 鍍鎳 T=0.4mm

ORDERING RULE

RF	MTA	2712	00	N	N	A	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.: 2712 Length 27.7mm, Width 12.8mm	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: ϕ 0.81 3: ϕ 1.13 6: RG316 7: ϕ 1.37 8: RG178	01~99 series number

DIMENSIONS

1	2	3	4	5		
<u>ELECTRICAL</u> Frequency: 2.4 ~ 2.5 GHz		No.	DESCRIPTION	MAT'L	Finish	Q'TY
		A	Antenna	SUS430 T=0.4mm	鍍銀	1



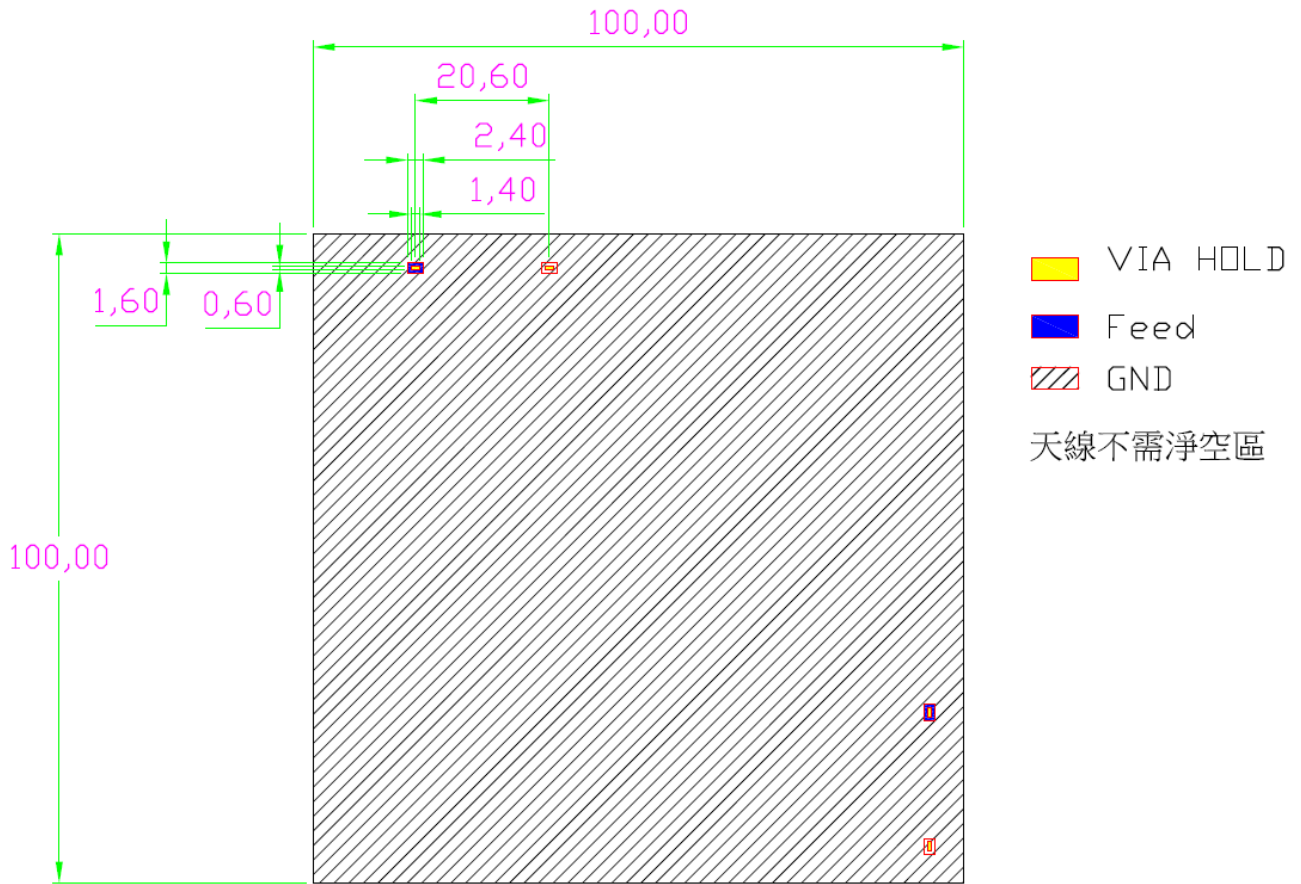
※標記□記號者, 為重點檢驗尺寸

		設計 DR.	HWCHAN	2015.08.20	品名	版本 REV.
		核准 APD.	Marco		ARTICLE	A
		容許公差 TOLERANCE			RFMTA271200NNAB001	
		6以下.....±0.2			單位 UNIT	
		6以上~30.....±0.5			比例 SCALE	
		30以上~120.....±0.8			張數 SHEET	
		120以上~315.....±1.2			1	
		315以上~1000.....±2.0			☉	
		1000以上~2000.....±3.0			mm	



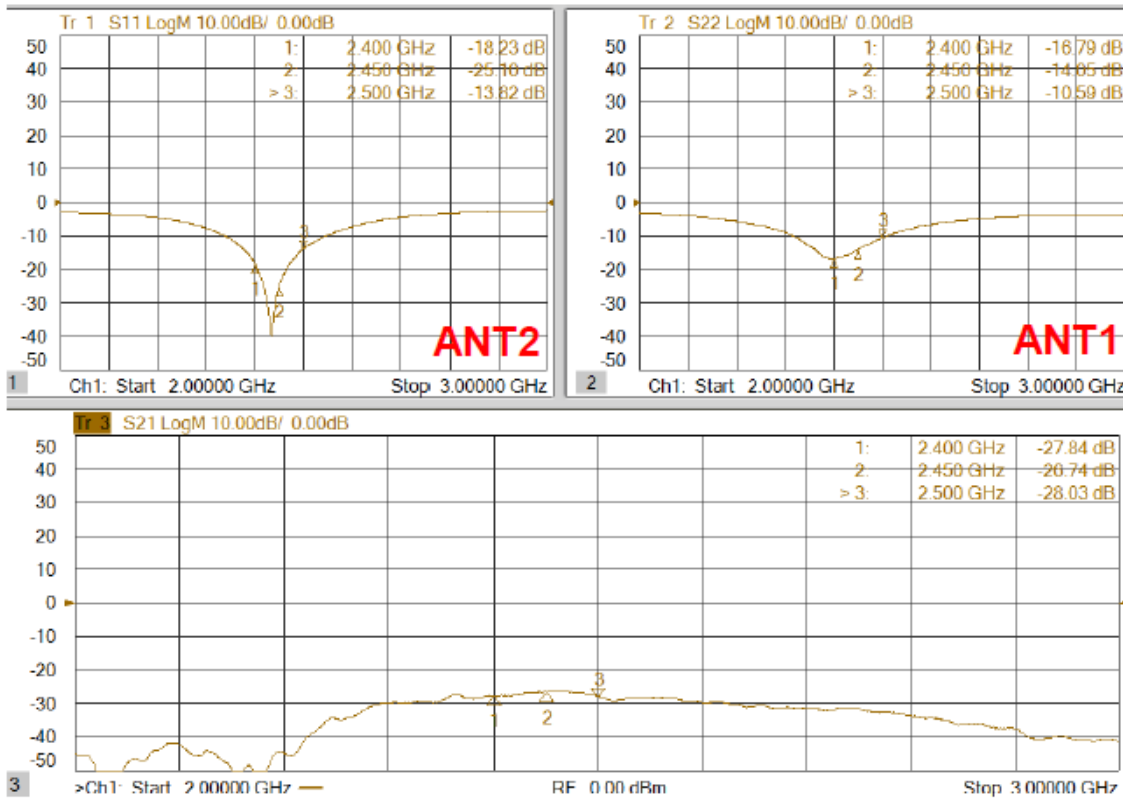
Test Report

PCB Layout

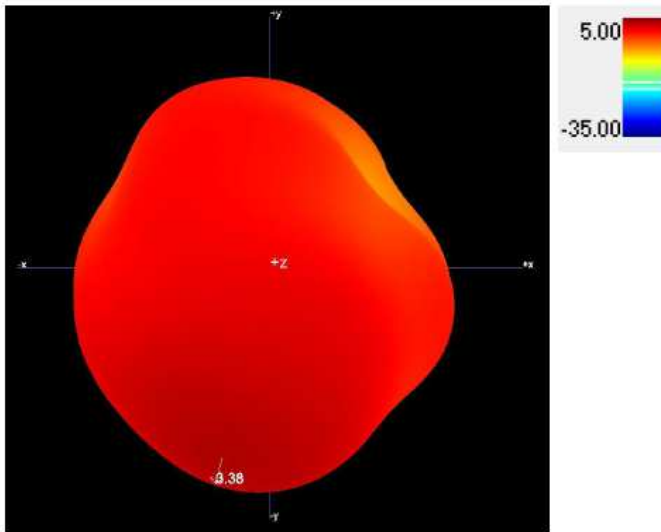


ELECTRICAL CHARACTERISTICS

Return Loss



Antenna Efficiency and Peak Gain



Maximum Efficiency at 2400 MHz : 73.9%



Maximum Peak Gain at 2410 MHz : 3.38dBi

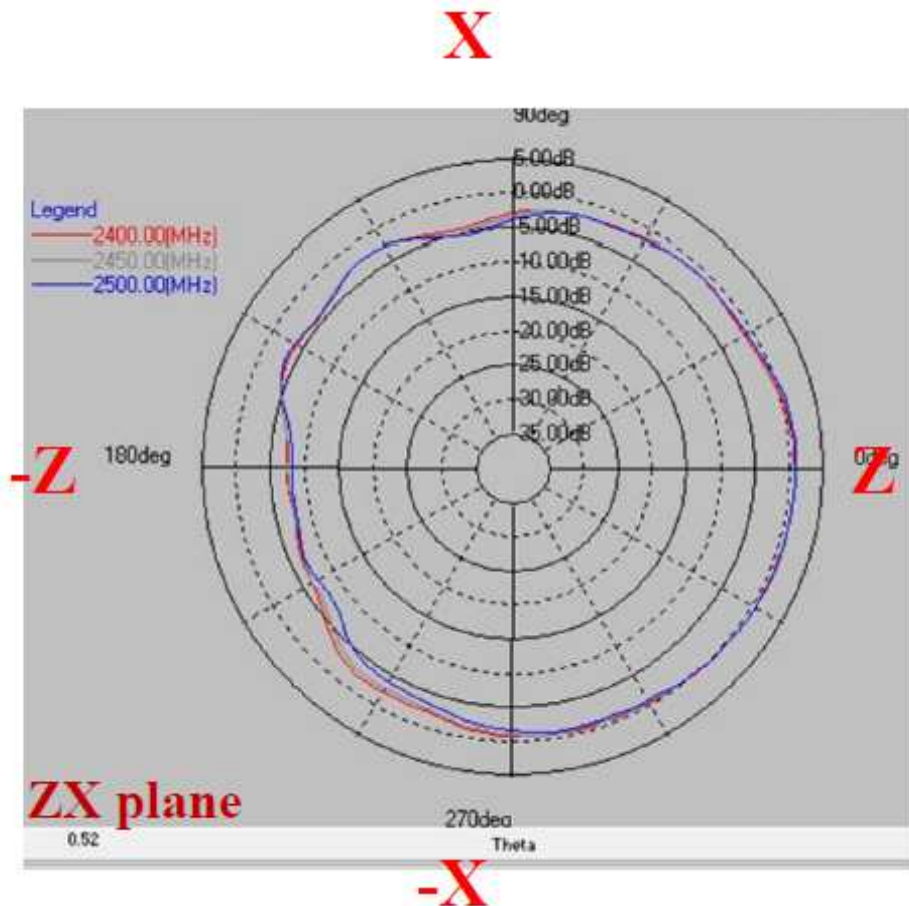
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB

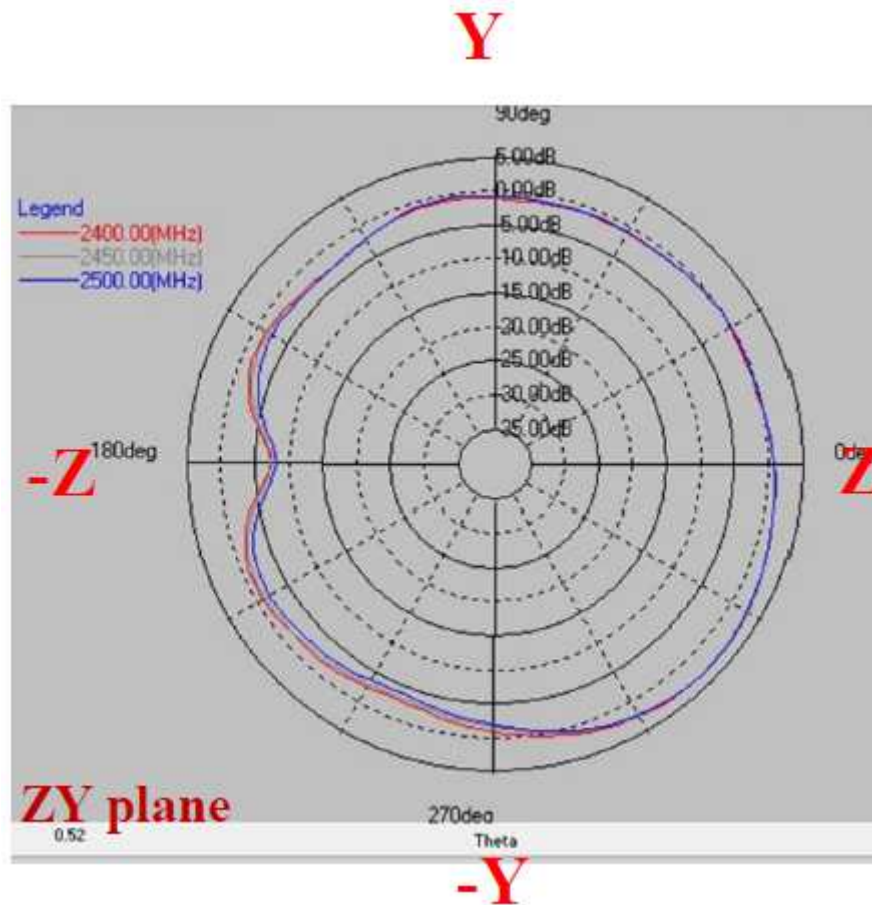


	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	0.91	-1.93
2450	0.83	-2.00
2500	0.99	-2.18

Y-Z Plane

Phi=90.00deg

Gain . dB

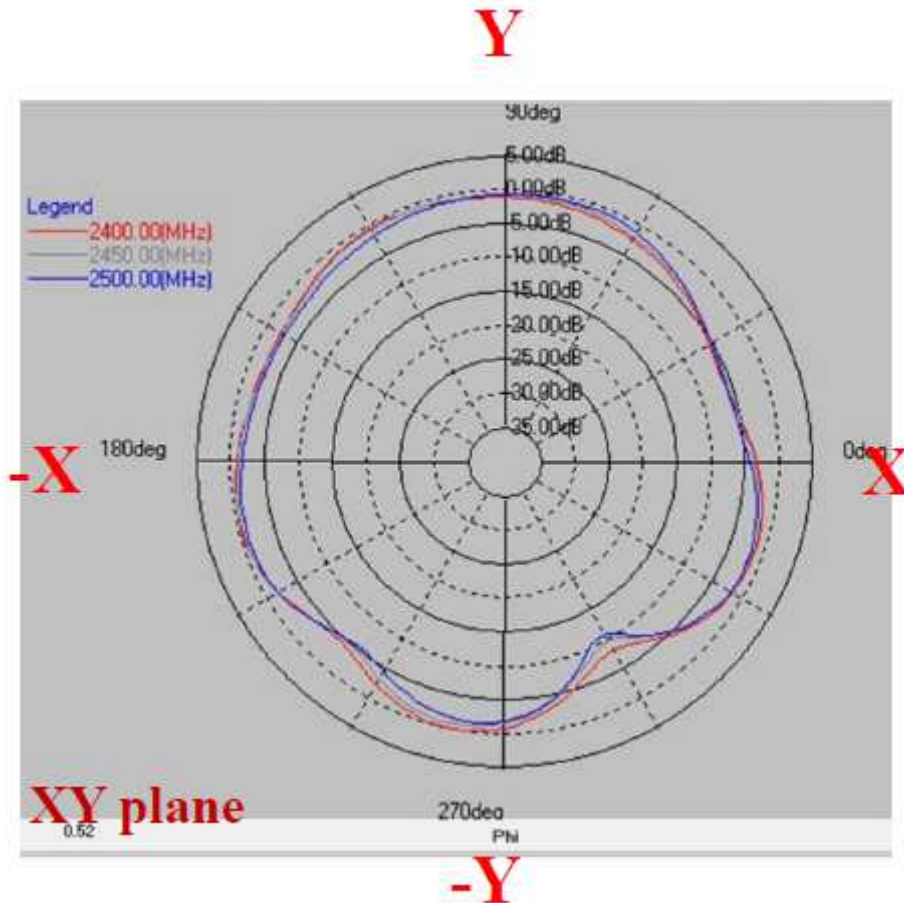


	ZY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	3.20	-0.43
2450	3.22	-0.52
2500	3.06	-0.72

X-Y Plane

Theta=90.00deg

Gain . dB



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	-0.29	-2.30
2450	-0.50	-2.45
2500	-0.76	-2.78