



權億科技股份有限公司
Master Wave Technology Co., Ltd.

承認書

APPROVAL SHEET

Customers: 神準科技股份有限公司

Customer Model No.:

Master Wave Model No.: 98615MNXX000

Product Description: 8615 Outdoor Antenna

Issue Date: 2013/10/21

REV.: 01

客戶承認用印 Customer Approved		權億承認用印 Confirmation Signature	
核准 Approve	主管 Chief	承辦 Responsible	
Hero	Matt	Haley	

MASTER WAVE TECHNOLOGY CO., LTD.

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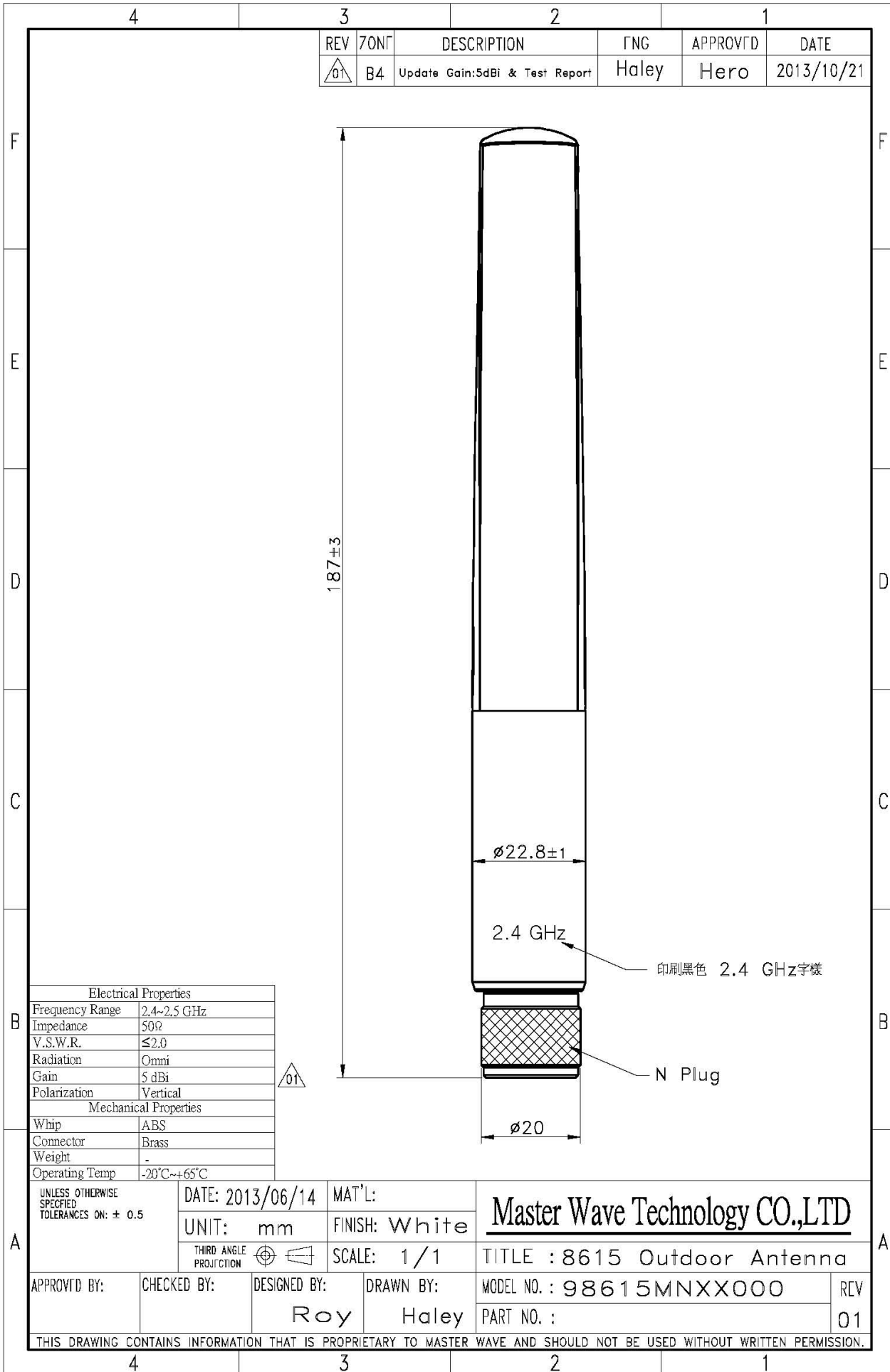
3. Material Certifications

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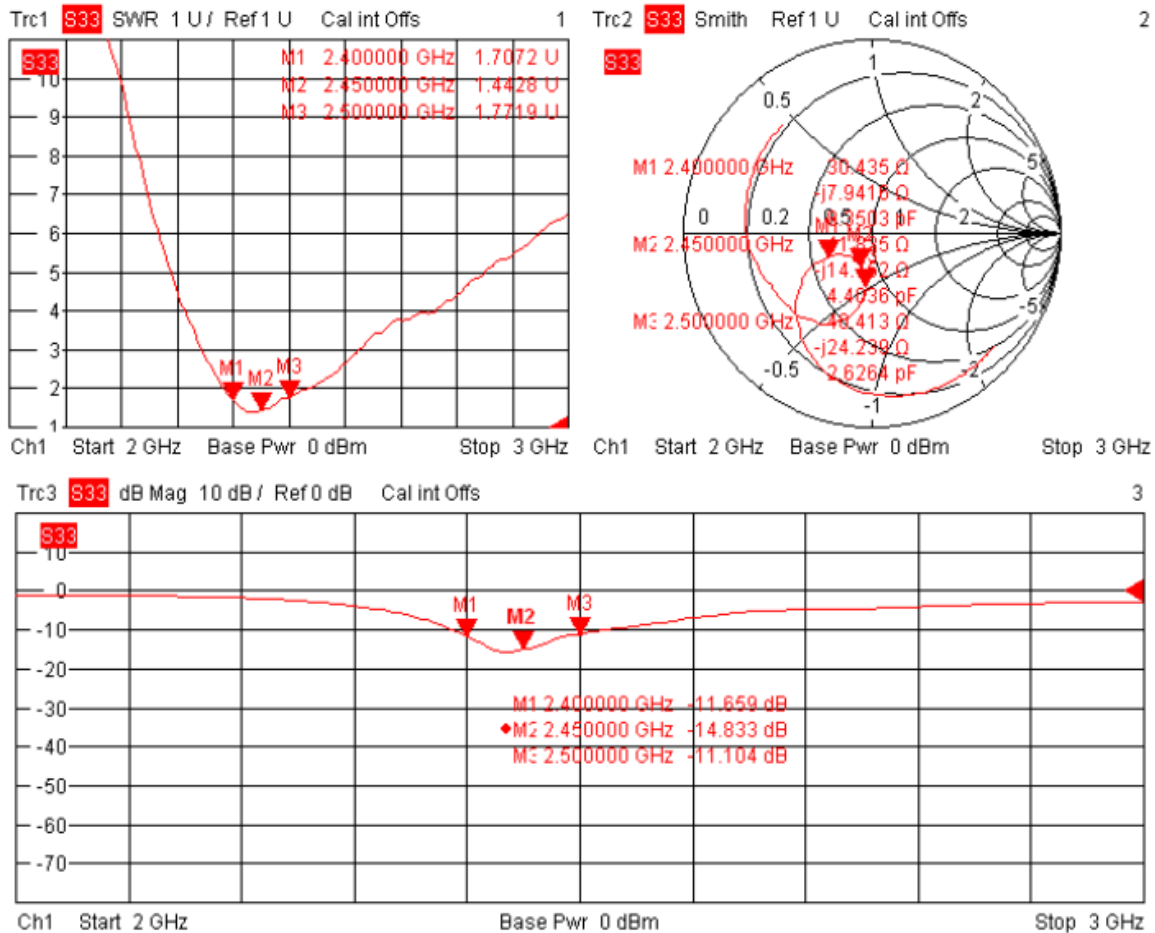
Modification History:

REV.	Date	Content
00	2013/6/14	
01	2013/10/21	Update Gain:5dBi & Test Report



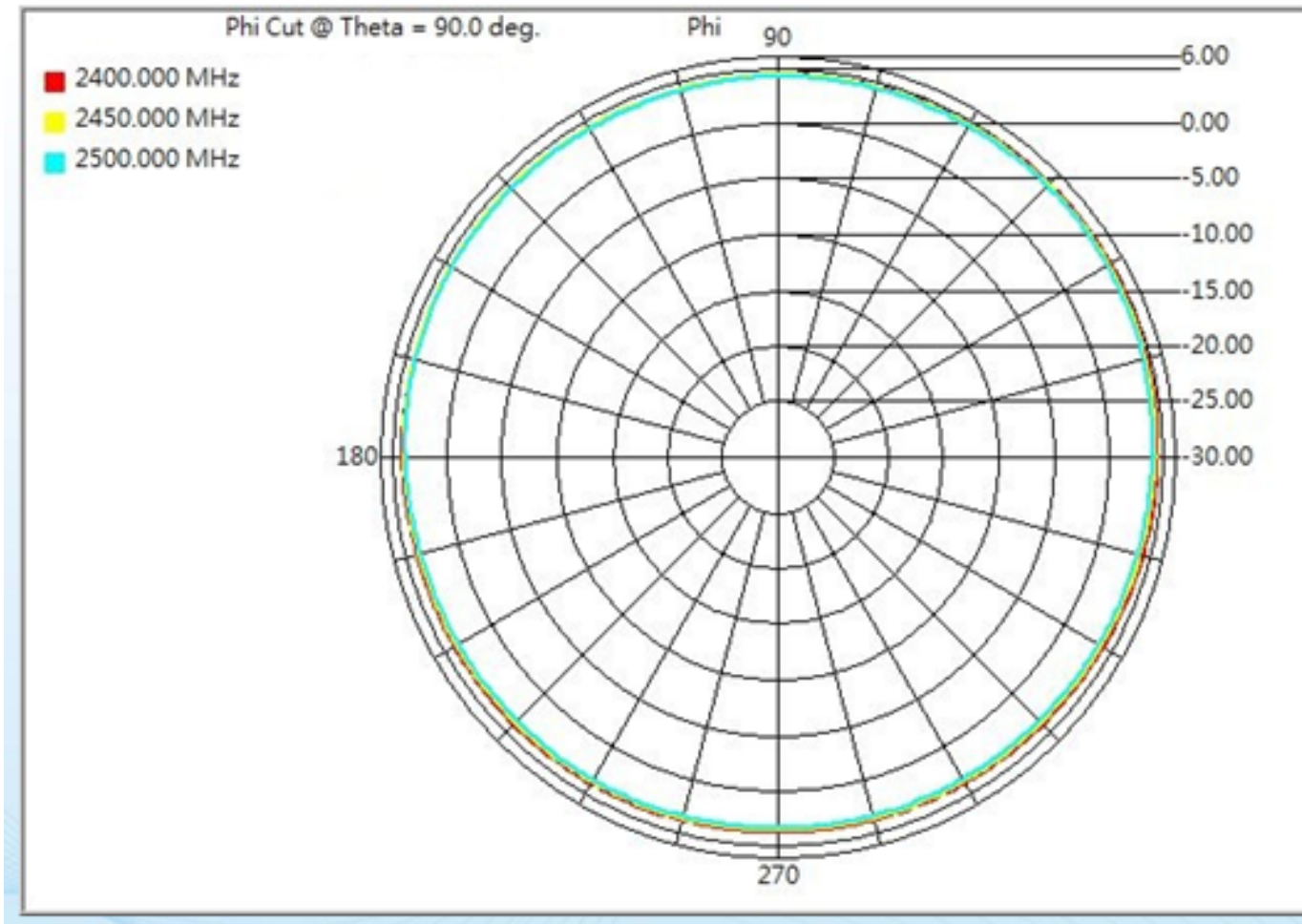


Electrical Test



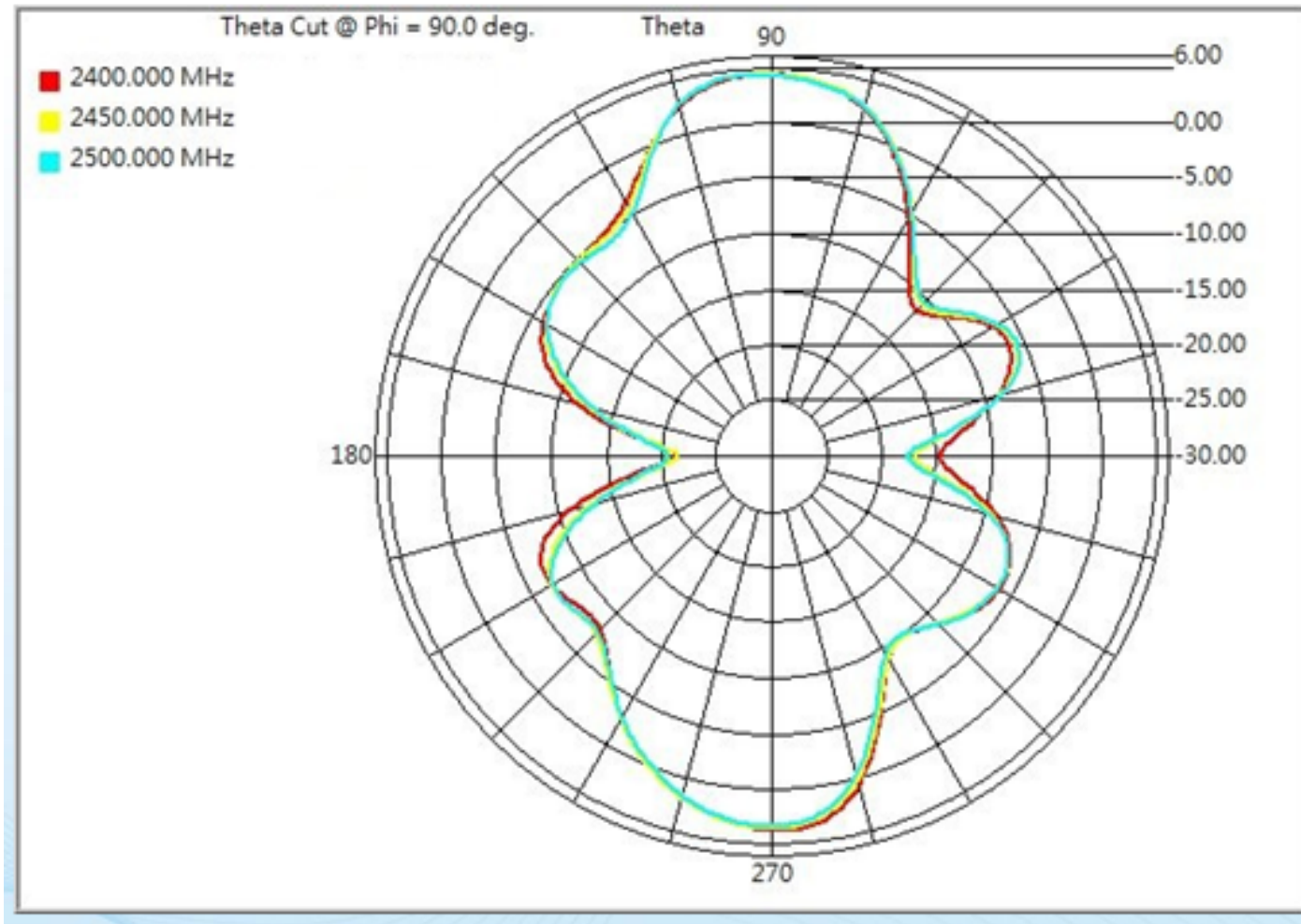


2D Radiation Pattern H-Plane



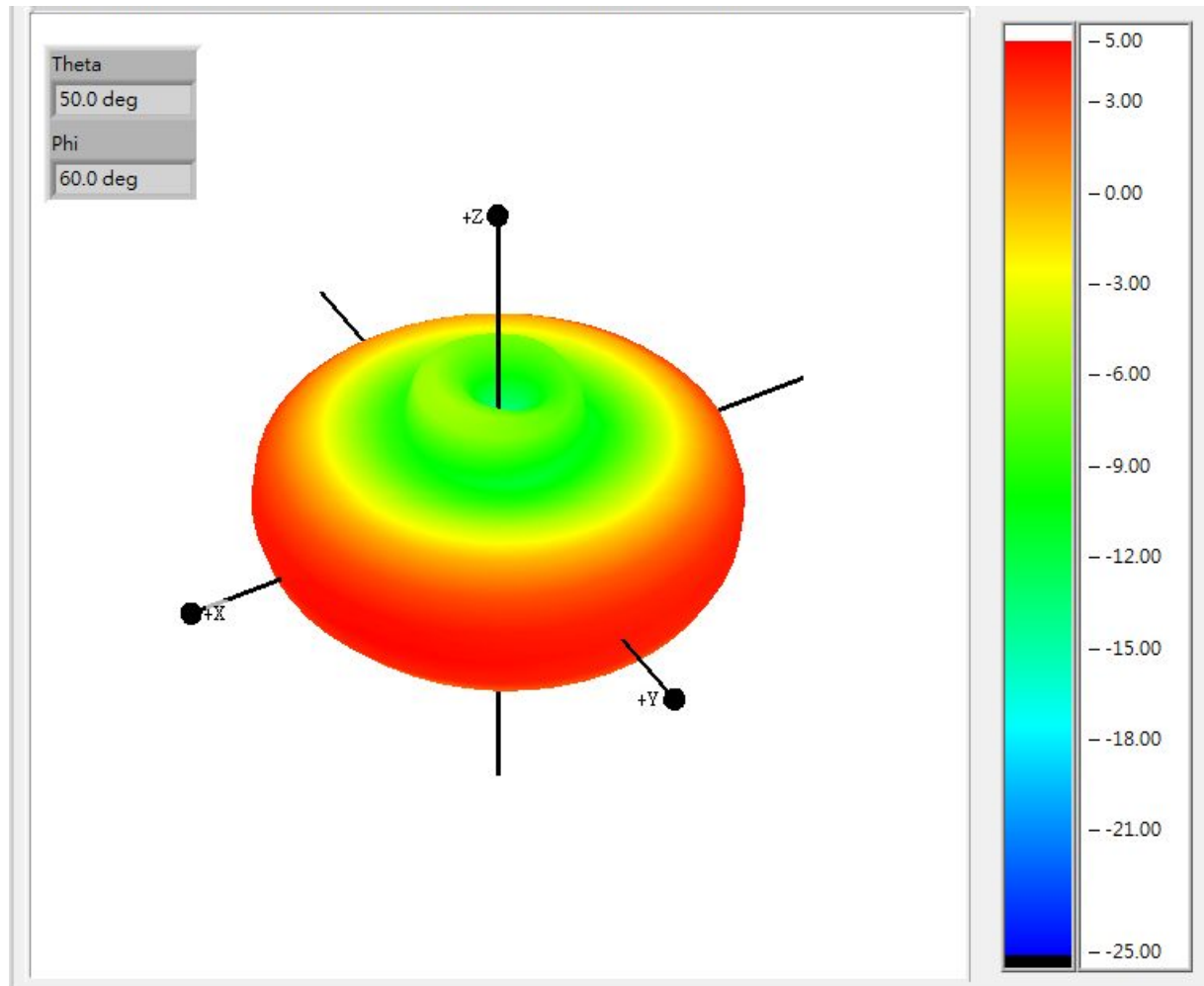


2D Radiation Pattern E-Plane



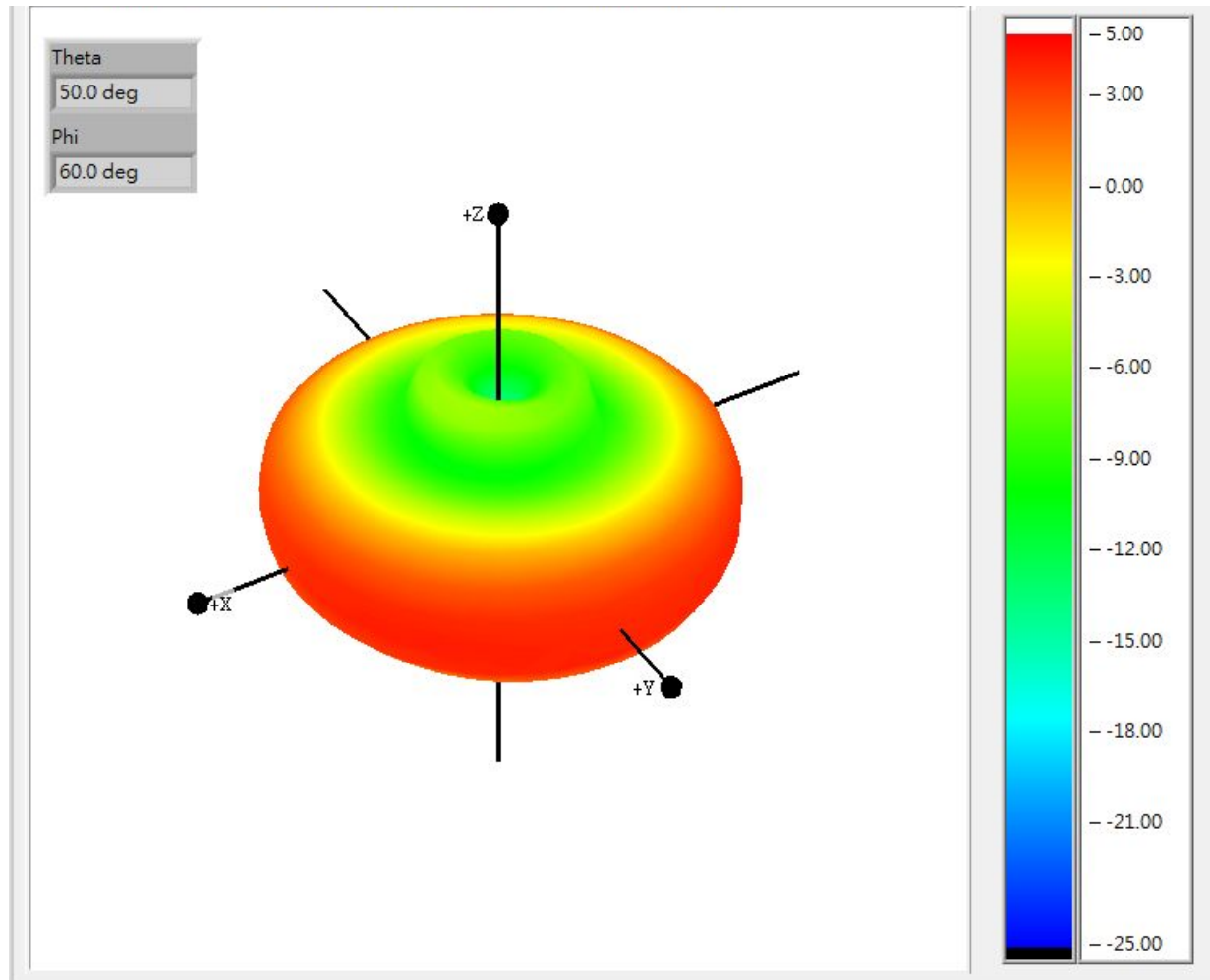


3D Radiation Pattern 2400MHz



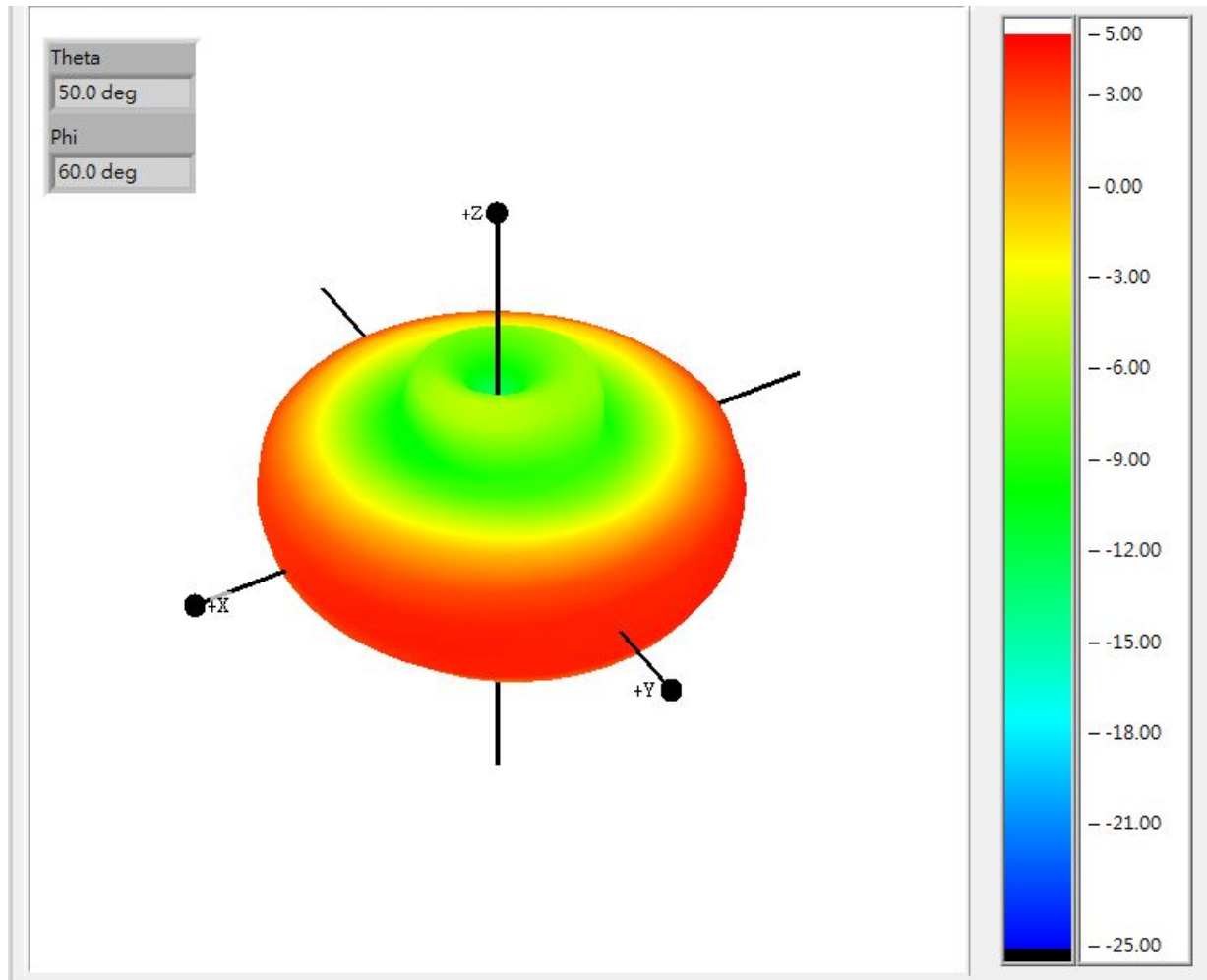


3D Radiation Pattern 2450MHz





3D Radiation Pattern 2500MHz





Antenna Efficiency

Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	4.59	4.51	4.6
Directivity (dBi)	5.91	6.31	6.49
Efficiency (dB)	-1.33	-1.8	-1.89
Efficiency (%)	73.67	66.08	64.66



Connector

N

Electrical Properties	Impedance	50 ohm
	Frequency Range	0~6 GHz
	V.S.W.R	≤ 1.5
	Working Voltage	≤ 1000 Vrms
	Dielectric Withstanding	≤ 2500 Vrms
	Voltage Insulation Resistance	≥ 5000 Megohms
	Contact Resistance	Center contact: 1.0 Milliohms (Max.) Outer contact: 1.0 Milliohms (Max.)
	Recommended coupling nut torque	6.0~10.0 in. lbs (0.68~1.13Nm)
	Coupling nut retention force	≥ 100 lbs (445N)
	Contact captivation axial	≥ 6.2 lbs (27.6N)

Operating Temperature	-65°C ~ +165°C
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Material Specifications	Material Data	Material
	Body	Brass
	Center Contact	Brass
	Insulator	Teflon



線材規格

CABLE SPECIFICATION

SPECIFICATION:		RG178	CABLE	CONSTRUCTION	D.W.G
CONDUCTOR	AWG	30AWG			
	MATERIAL	Silver-plated copper wire stranded conductor			
INSULATION	COND.SIZE	7/0.102±0.008 mm			
	MATERIAL	Teflon FEP			
	O . D	0.87±0.03 mm			
	N O.	1C			
BRAID	COLOR	Natural color			
	MATERIAL	Silver-plated copper wire			
COPPER	SIZE	3/16/0.1 Min.95% ↑			
	MATERIAL	Teflon FEP			
JACKET	COLOR	White,Black,Brown,Gray			
	O . D	1.8±0.10 mm			
	Character of electrical				
1.Capacitance(Nom.)	Item	Unit	Detail of spec.		
	-----	pF/M	95		
2.Impedance	-----	0	50±2		
	1.0GHZ	dB/M	1.5		
	2.0GHZ	dB/M	2.1		
	2.4GHZ	dB/M	2.4		
3.Attenuation(Max.)	3.0GHZ	dB/M	2.6		
	4.0GHZ	dB/M	3.1		
	5.0GHZ	dB/M	3.5		
	6.0GHZ	dB/M	3.9		
PHYSICAL PROPERTIES OF JACKET					
Master Wave Technology Co., Ltd.					
PART NO.		APPROVED		CUSTOMER	
CHECKED		DRAWING		REV	A
		Dyan		DATE	2007/10/8

