



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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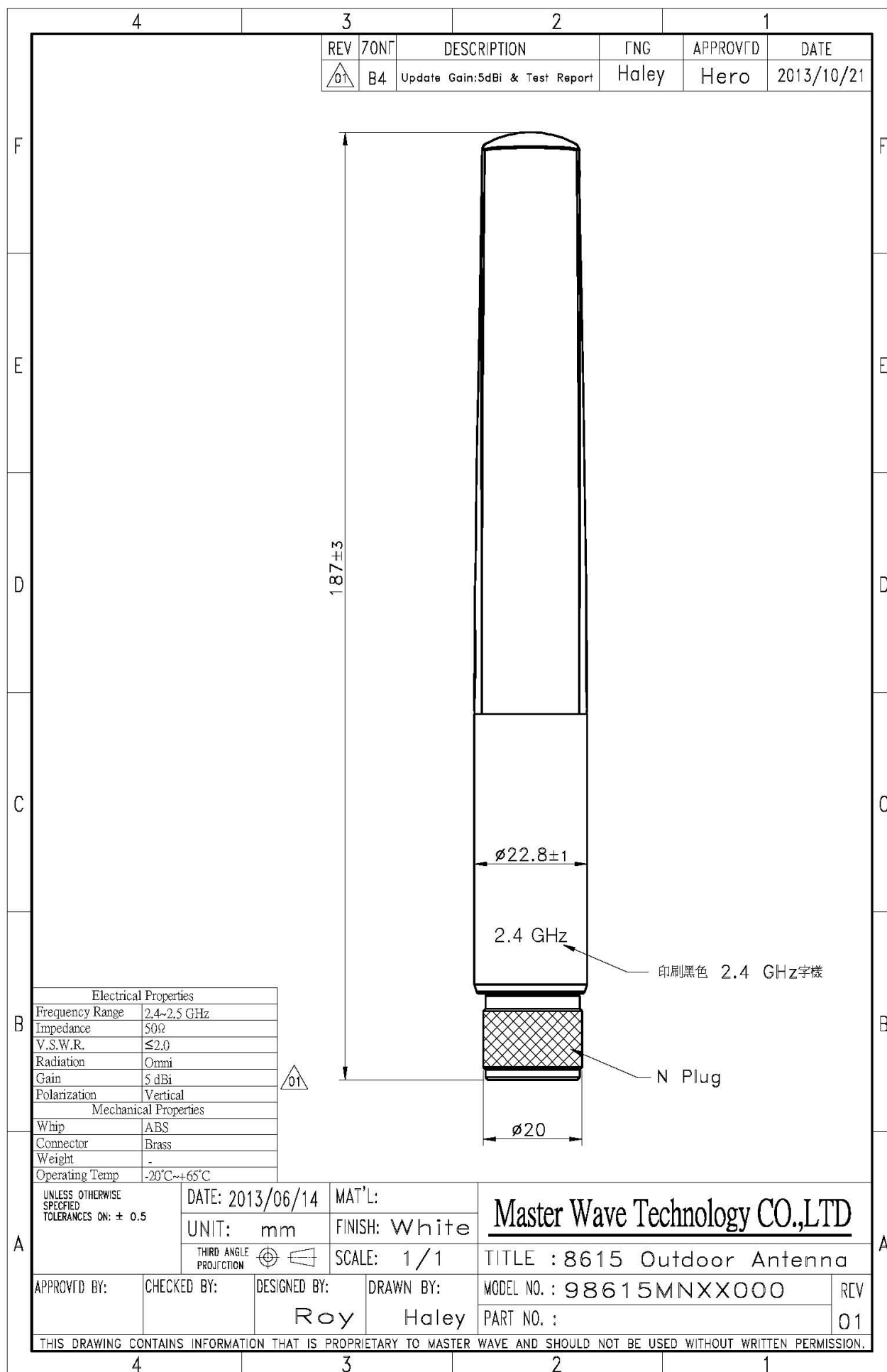
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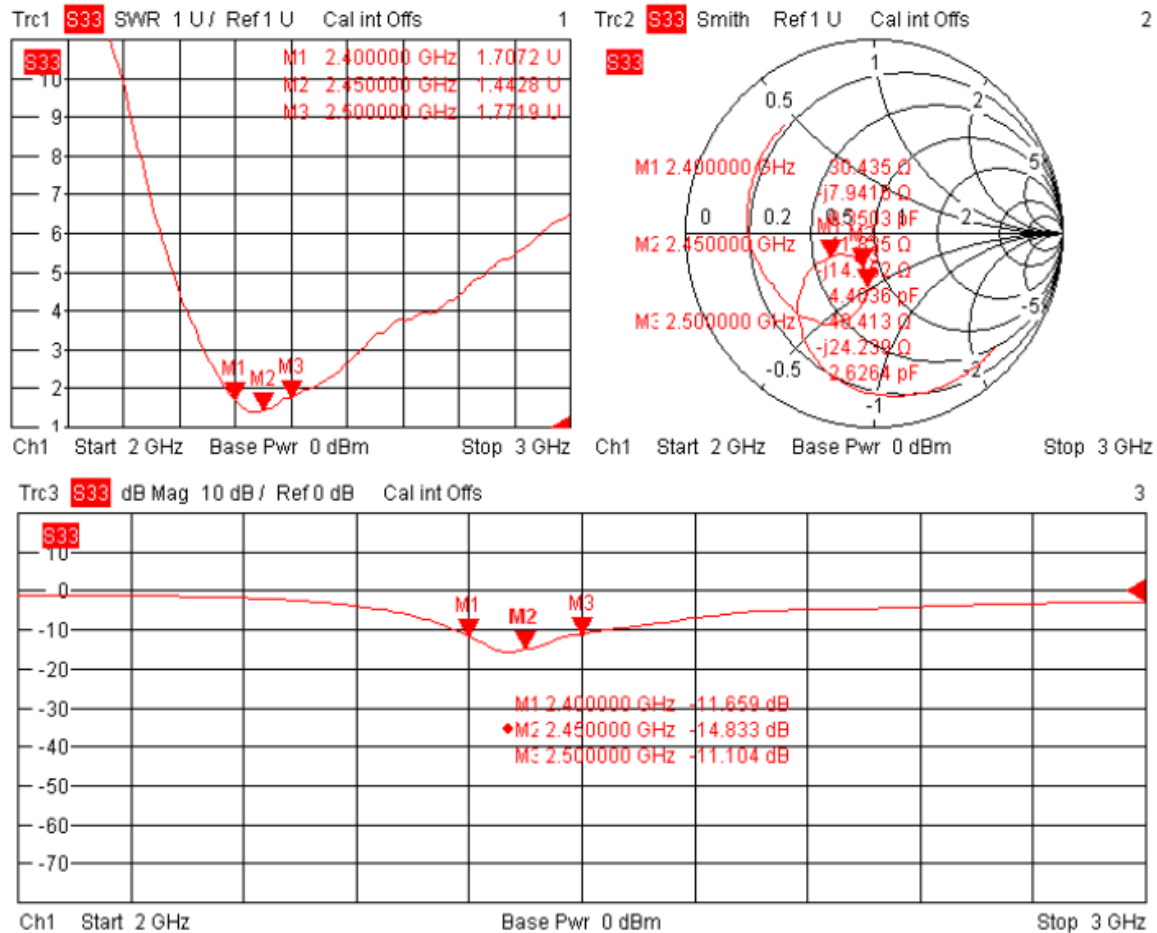
Modification History:

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



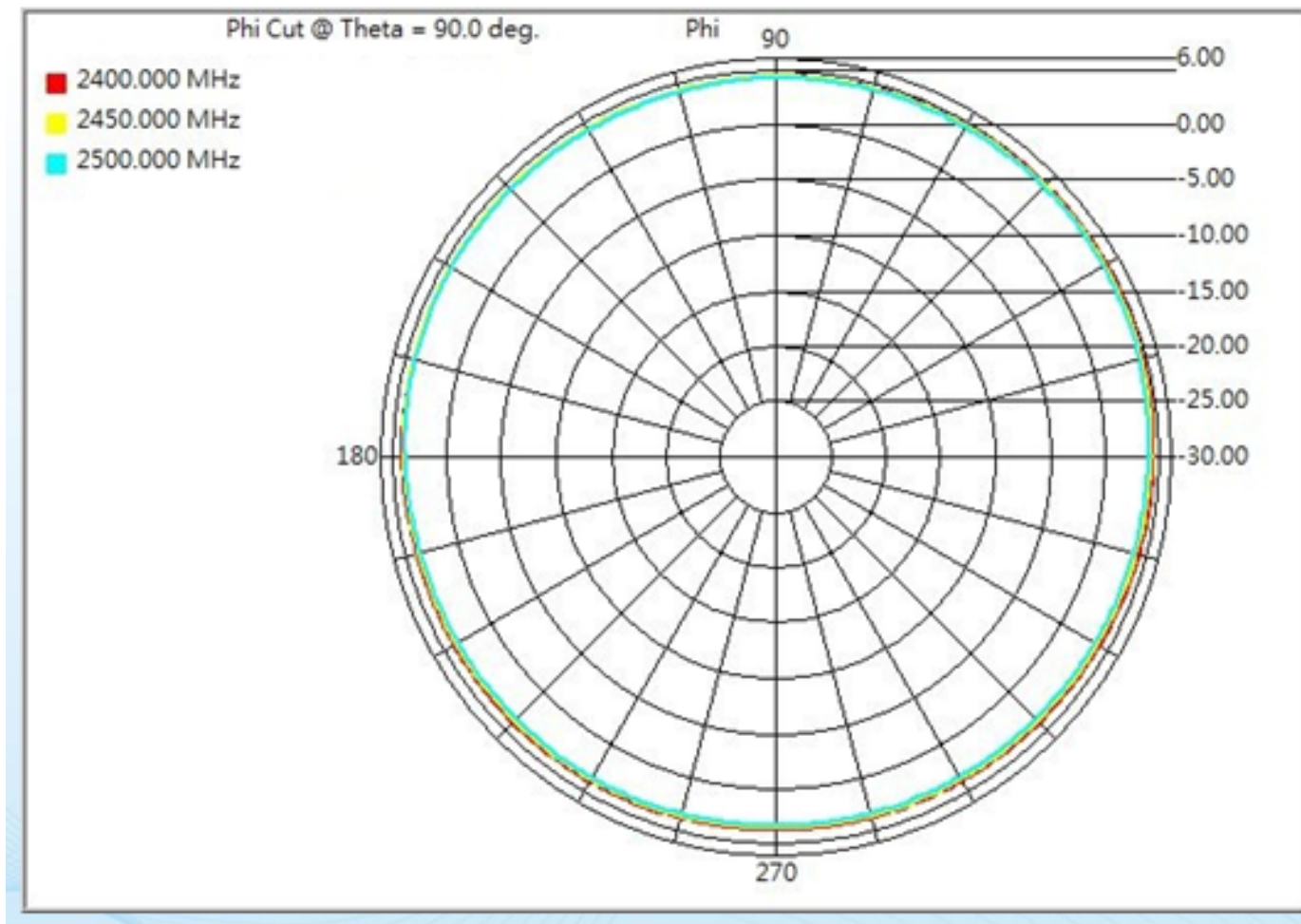


Electrical Test



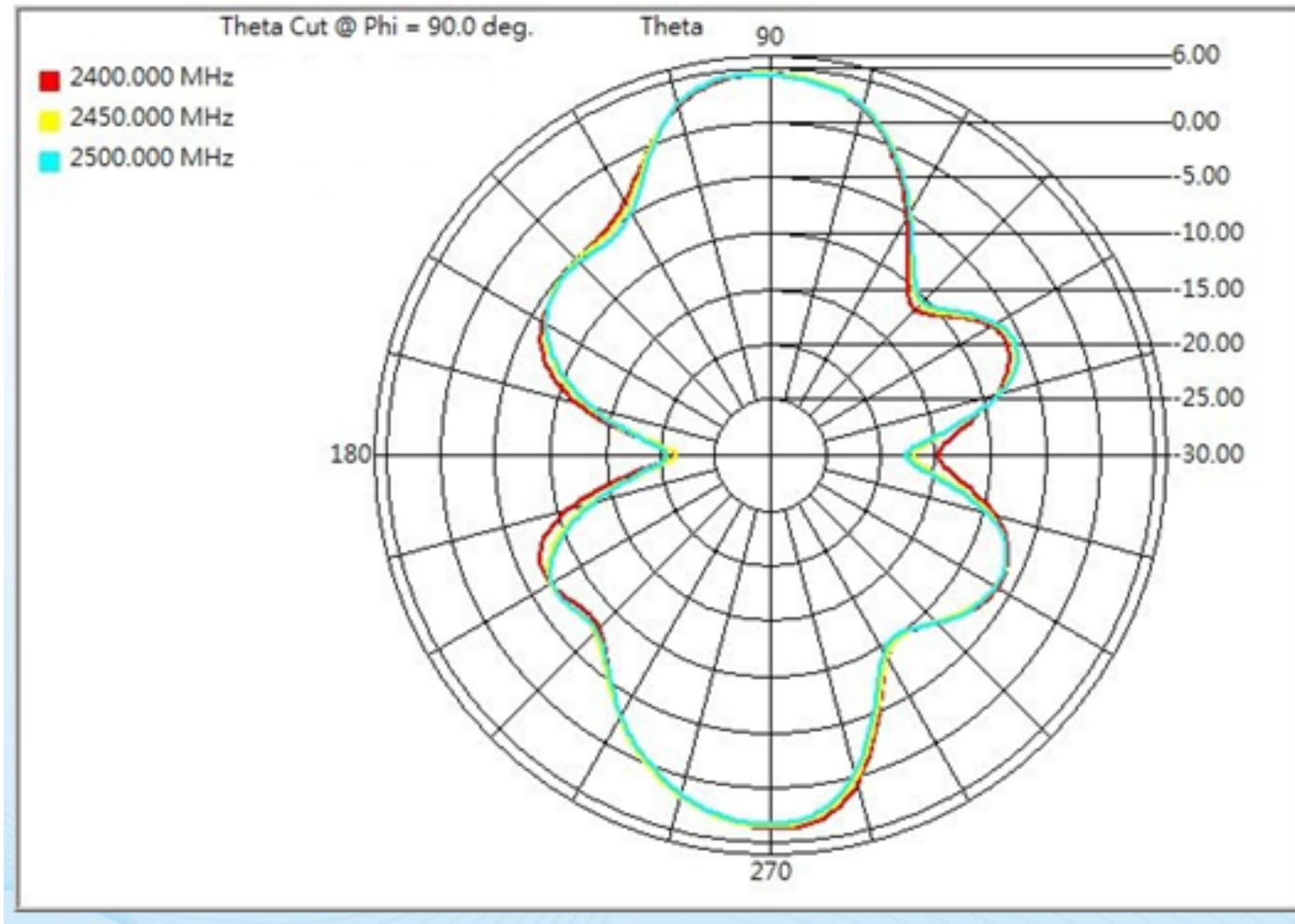


2D Radiation Pattern H-Plane



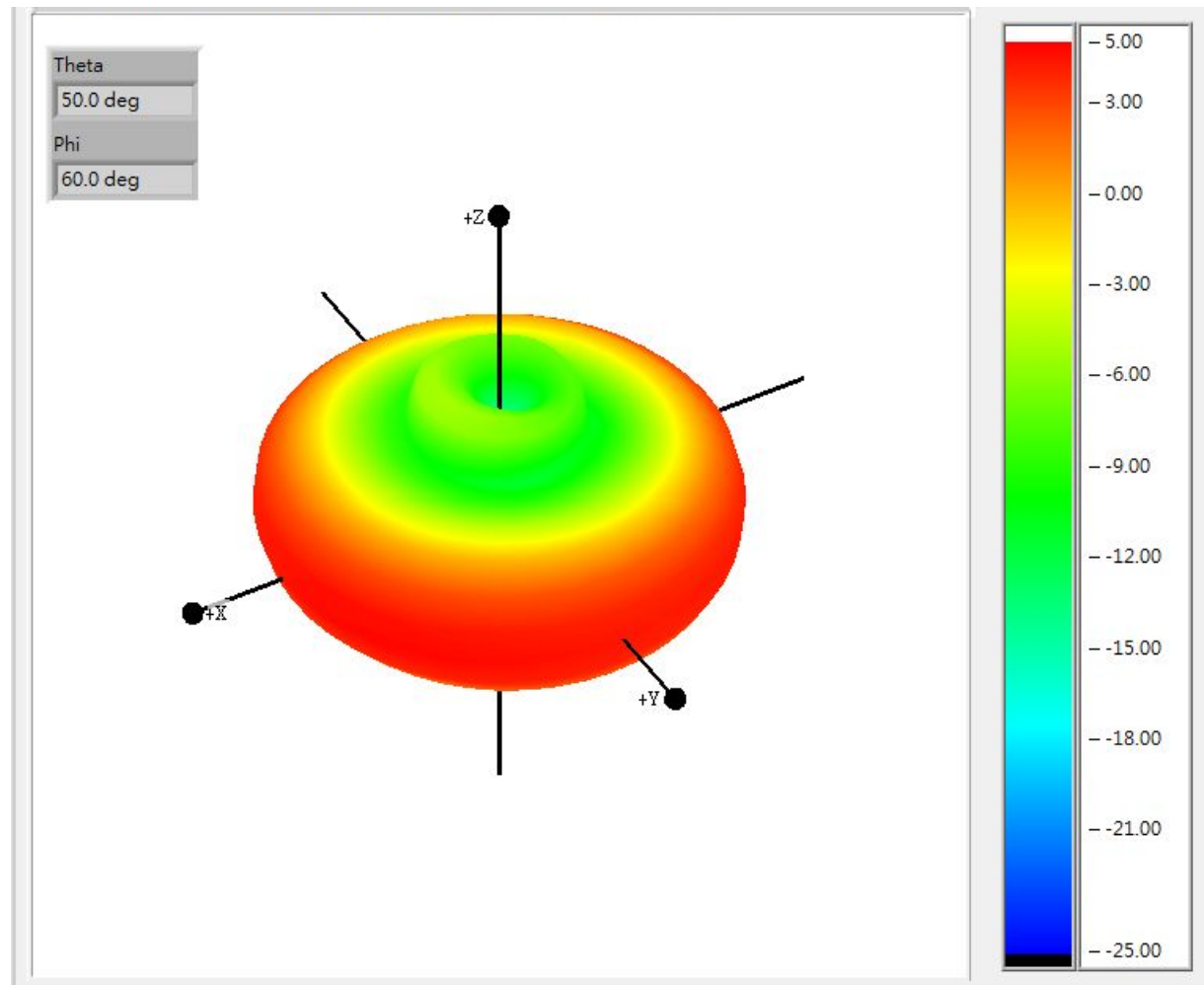


2D Radiation Pattern E-Plane



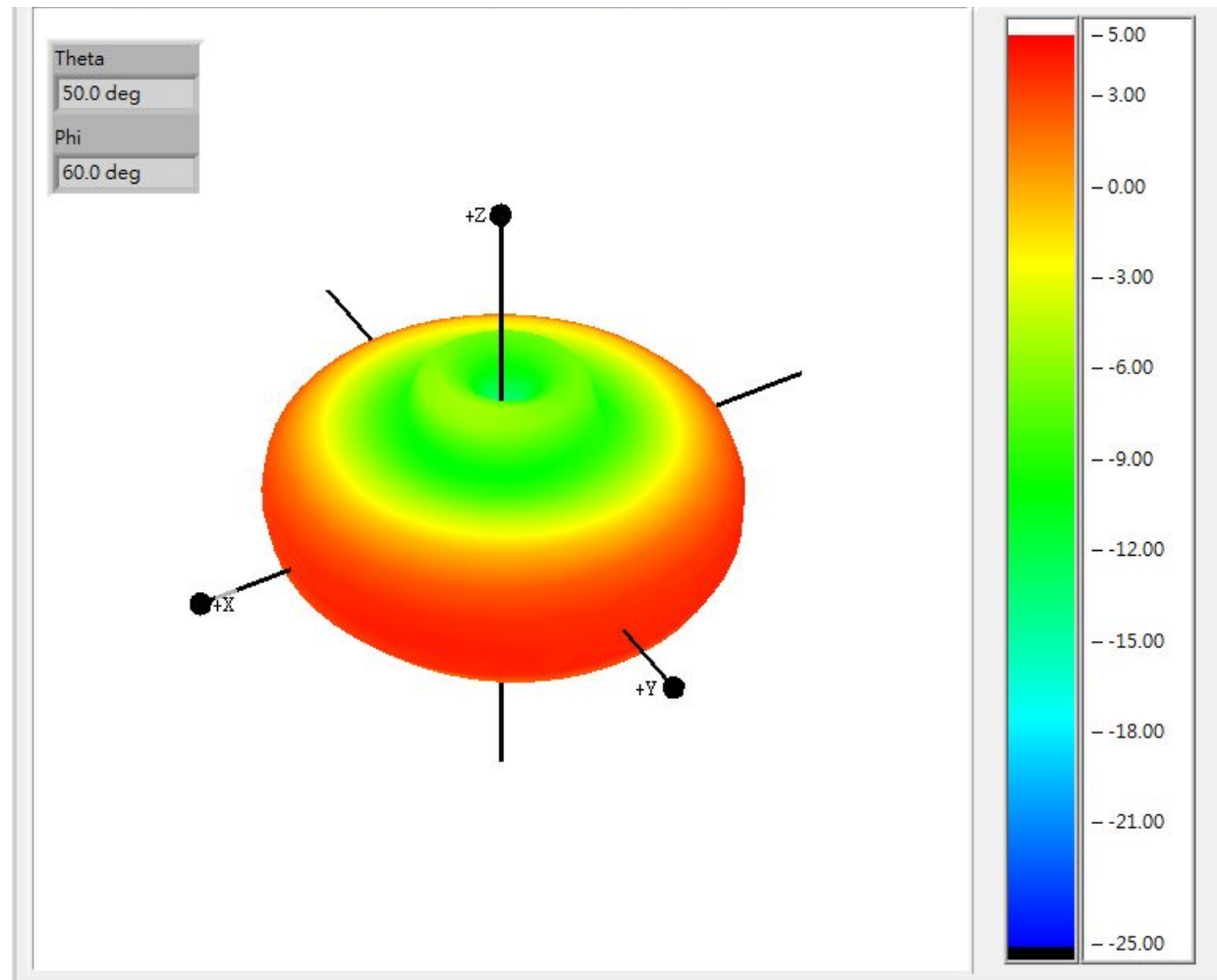


3D Radiation Pattern 2400MHz



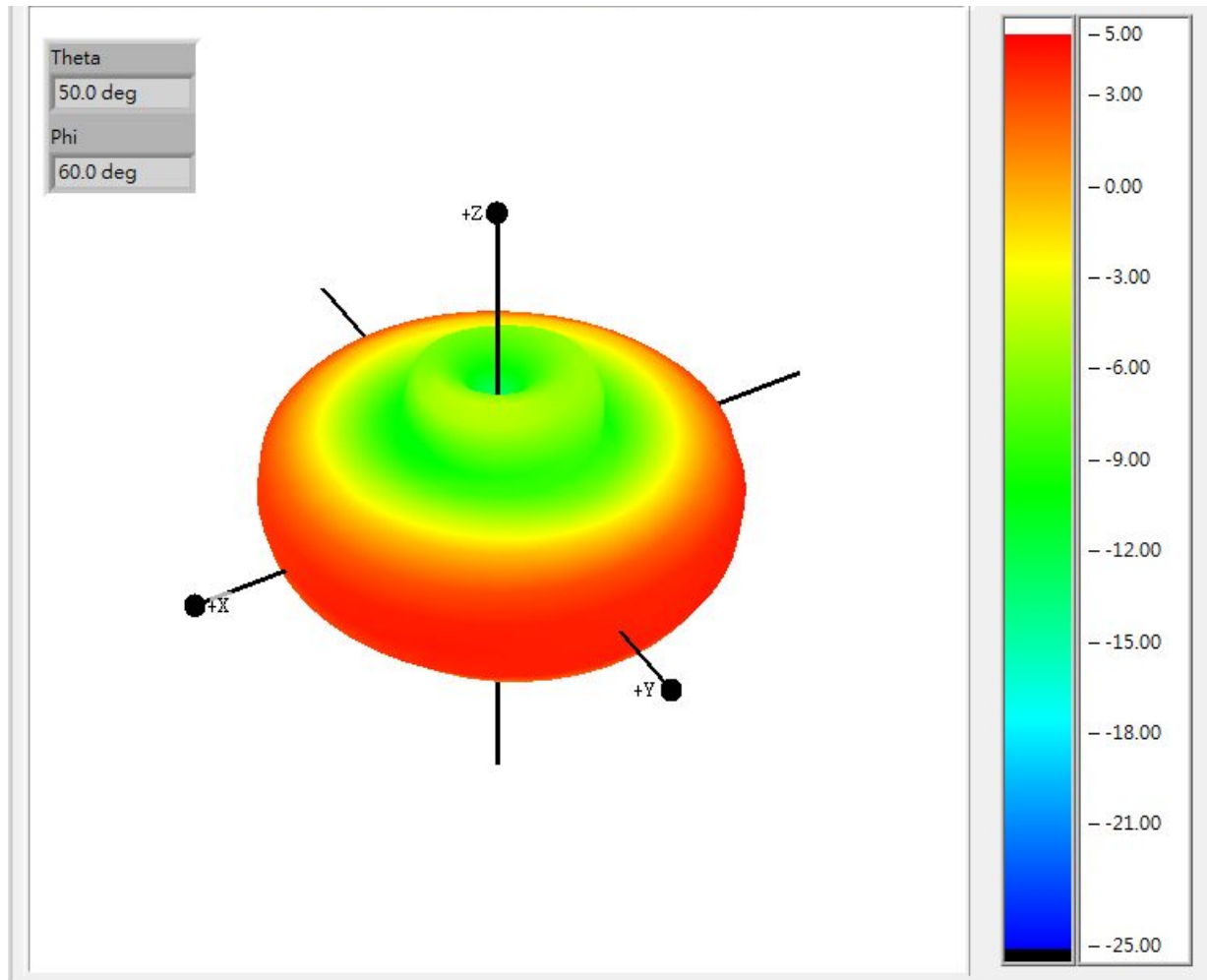


3D Radiation Pattern 2450MHz





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	$\leq 1000 \text{ Vrms}$
	Dielectric Withstanding	$\leq 2500 \text{ Vrms}$
	Voltage Insulation Resistance	$\geq 5000 \text{ Megohms}$
	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	$\geq 100 \text{ lbs (445N)}$
	Contact captivation axial	$\geq 6.2 \text{ lbs (27.6N)}$

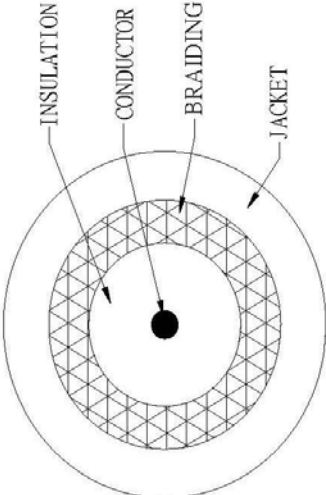
Operating Temperature	-65°C ~ +165°C
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Material Specifications	Material Data	Material
	Body	Brass
	Center Contact	Brass
	Insulator	Teflon



線材規格

CABLE SPECIFICATION

SPECIFICATION:		RG178	CABLE	CONSTRUCTION		D.W.G
ITEM		SPECIFICATION				
CONDUCTOR	AWG	30AWG				
	MATERIAL	Silver-plated copper wire stranded conductor				
	COND.SIZE	7/0.102±0.008 mm				
INSULATION	MATERIAL	Teflon FEP				
	O . D	0.87±0.03 mm				
	N O.	1C				
	COLOR	Natural color				
BRAID	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						
Item	Unit	Detail of spec.				
1.Capacitance(Nom.)	pF/M	95				
2.Impedance	0	50±2				
	dB/M	1.5				
3.Attenuation(Max.)	dB/M	2.1				
	dB/M	2.4				
	dB/M	2.6				
	dB/M	3.1				
	dB/M	3.5				
	dB/M	3.9				
PHYSICAL PROPERTIES OF JACKET						
Master Wave Technology Co., Ltd.						
PART NO.		APPROVED		CUSTOMER		
CHECKED		DRAWING		REV		
DATE		Dyan		2007/10/8		