



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

承認書

APPROVAL SHEET

Customers: NETGEAR Inc.


Customer Model No.:

Master Wave Model No.: 907X00747X88

Product Description: 2+5G 銅管天線

Issue Date: 2022.01.21

REV.: 00

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	
Larry	Tony	Alice	

MASTER WAVE TECHNOLOGY CO., LTD.

權億科技股份有限公司

Address: No. 19, Hezun N. Rd., Zhongli Dist., Taoyuan City 320, Taiwan (R.O.C.)

Tel: +886-3-4529998 Fax: +886-3-4522866

Suzhou Shengyih Electronics Plastic Co. Ltd (Shou Zhou)

聲億電子塑膠有限公司(蘇州廠)

Address: No.95 Wusong south Rd of Luzhi Town Wu zhong Area Suzhou City, China

Tel : +86-512-65046030 Fax : +86-512-65046033

Shengyih Electronic Co. Ltd (Dongguan)

聲億電子有限公司(東莞廠)

Address: Mu-Lun Administration Area, Changping Town, Dongguan City, Guangdong Province, China

Tel : +86-769-83914045 Fax : +86-769-83914046



Table of Contents

Item

1. Antenna Specifications

-Drawing

2. Packing

-PE Bag

-Carton

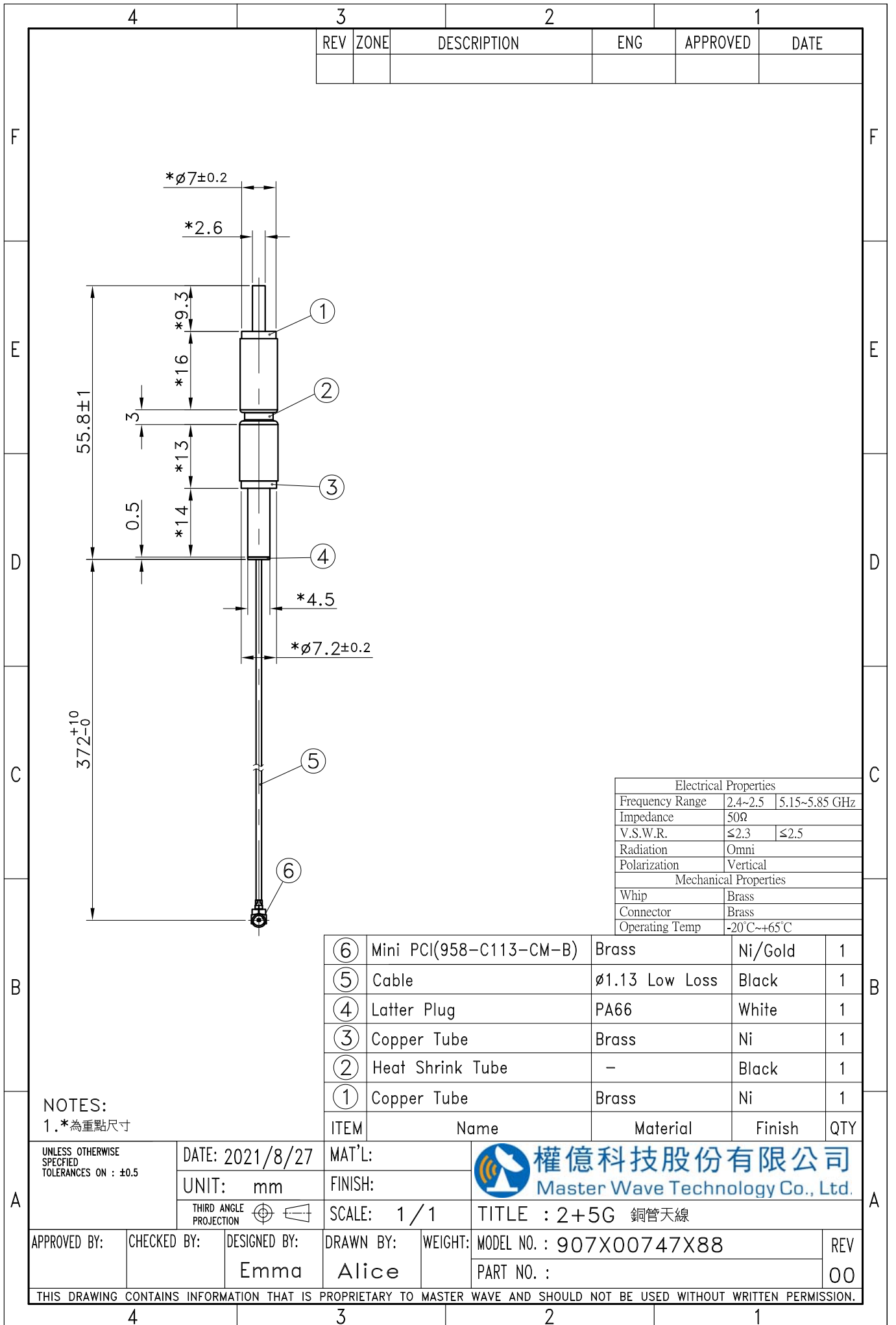
3. Material Certifications

-Connector

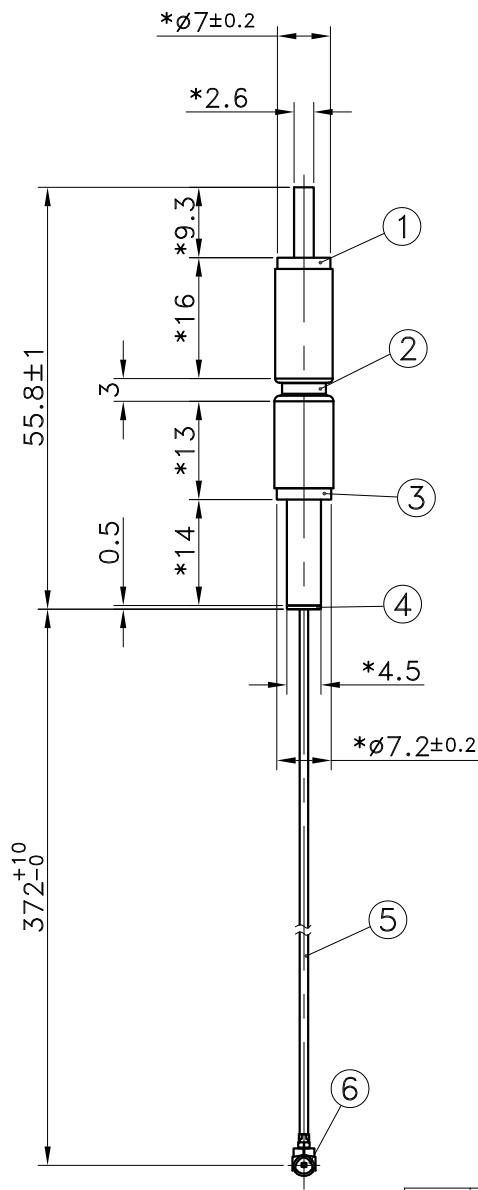
-Cable

Modification History:

REV.	Date	Content
00	2022.01.21	



REV	ZONE	DESCRIPTION	ENG	APPROVED	DATE



Electrical Properties		
Frequency Range	2.4~2.5	5.15~5.85 GHz
Impedance	50Ω	
V.S.W.R.	≤2.3	≤2.5
Radiation	Omni	
Polarization	Vertical	
Mechanical Properties		
Whip	Brass	
Connector	Brass	
Operating Temp	-20°C~+65°C	

⑥	Mini PCI(958-C113-CM-B)	Brass	Ni/Gold	1
⑤	Cable	∅1.13 Low Loss	Black	1
④	Latter Plug	PA66	White	1
③	Copper Tube	Brass	Ni	1
②	Heat Shrink Tube	-	Black	1
①	Copper Tube	Brass	Ni	1
ITEM	Name	Material	Finish	QTY

NOTES:
1. *為重點尺寸

UNLESS OTHERWISE SPECIFIED TOLERANCES ON : ±0.5

DATE: 2021/8/27

UNIT: mm

THIRD ANGLE PROJECTION

MAT'L:

FINISH:

SCALE: 1/1



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

TITLE : 2+5G 銅管天線

APPROVED BY:	CHECKED BY:	DESIGNED BY: Emma	DRAWN BY: Alice	WEIGHT:	MODEL NO. : 907X00747X88	REV 00
PART NO. :						

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MASTER WAVE AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

4

3

2

1

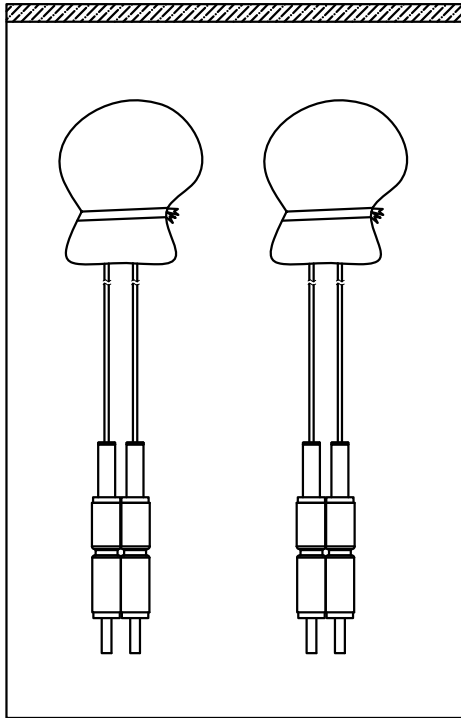
REV	ZONE	DESCRIPTION	ENG	APPROVED	DATE

F

F

E

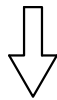
E



25PCS Antenna A Bundle
 50PCS Antenna Per bag and seal
 (25支天線綁一束, 每包50支天線並封口)

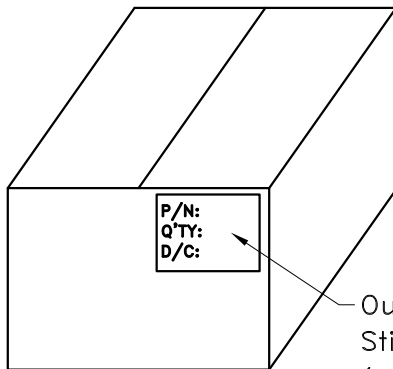
D

D



C

C





Outside the carton :
 Stick the label on the upper right side
 (紙箱外：將標籤黏貼在右上方)

B

B

A

A

DATE: 2021/8/27		MAT'L:		 權億科技股份有限公司 Master Wave Technology Co., Ltd.		
UNIT: mm		FINISH:				
THIRD ANGLE PROJECTION 		SCALE: -		TITLE : 2+5G 銅管天線 Packing		
APPROVED BY:	CHECKED BY:	DESIGNED BY:	DRAWN BY:	WEIGHT:	MODEL NO. : 907X00747X88	REV
					PART NO. :	00

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MASTER WAVE AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

4

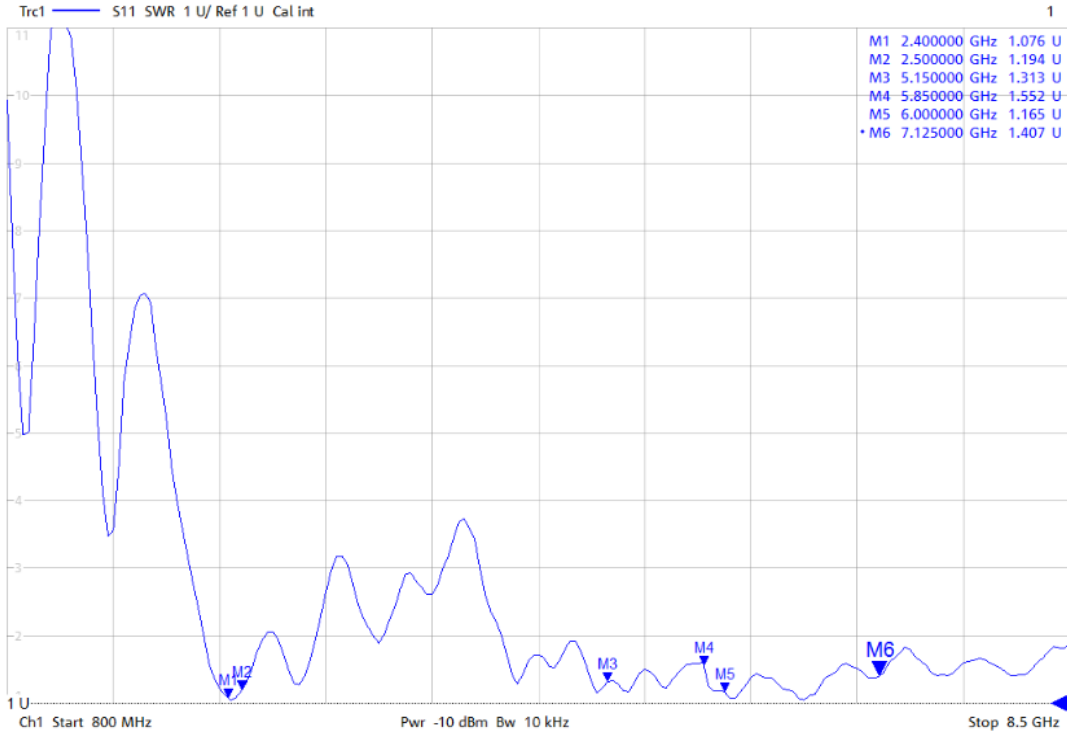
3

2

1



Electrical Test



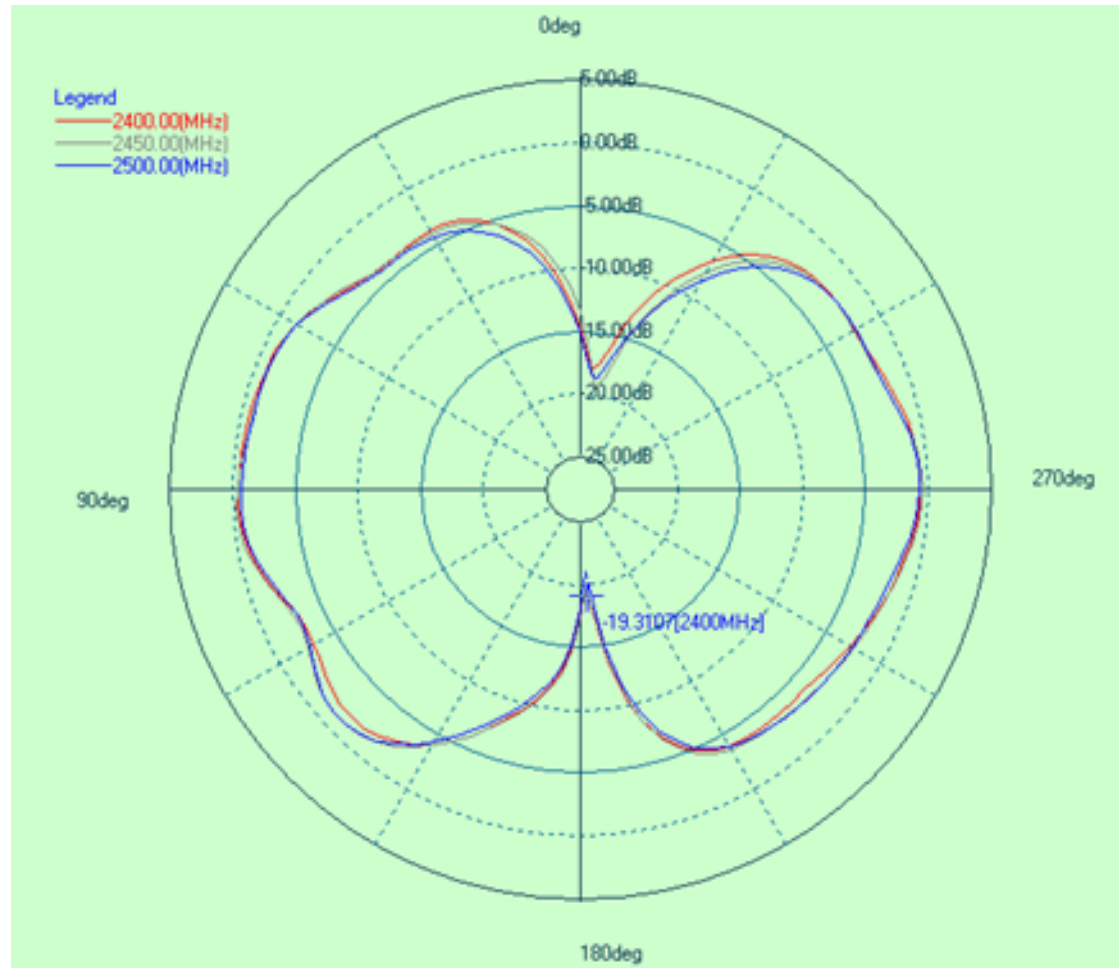


Antenna Efficiency

Frequency(MHz)	2400	2450	2500
Efficiency (%)	65%	66%	67%
Peak Gain (dBi)	0.49	0.64	0.54
Frequency(MHz)	5150	5550	5850
Efficiency (%)	60%	62%	61%
Peak Gain (dBi)	1.24	1.47	1.51

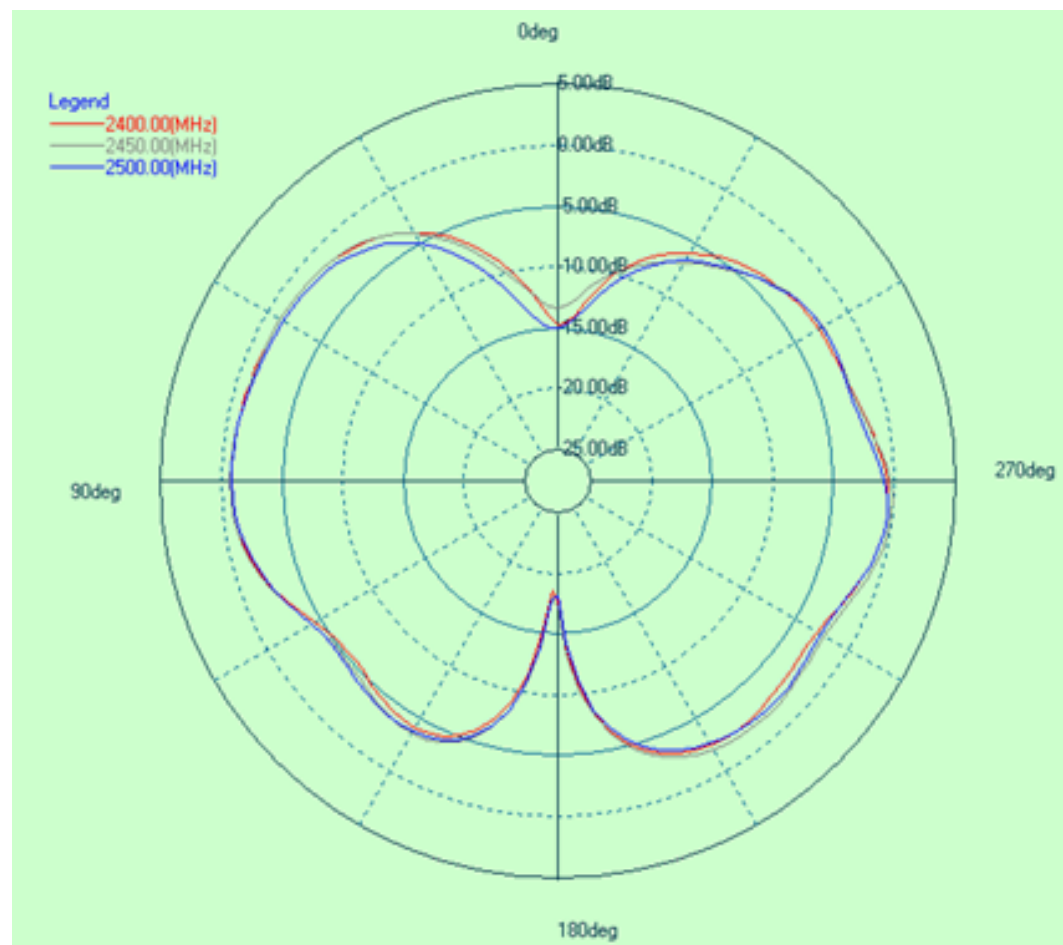


2D Radiation Pattern 2400.2450.2500 MHz XZ Plane



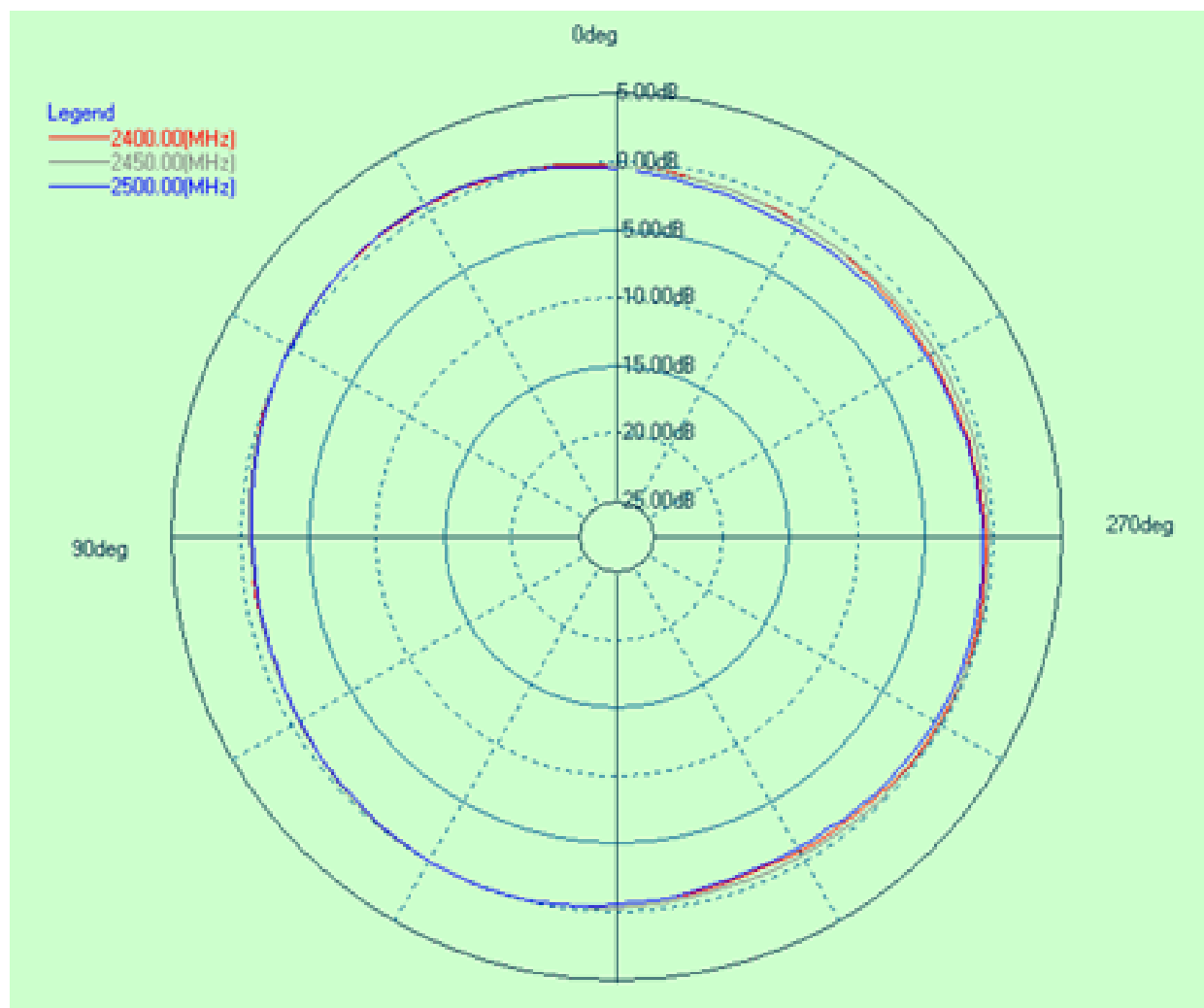


2D Radiation Pattern 2400.2450.2500 MHz YZ Plane



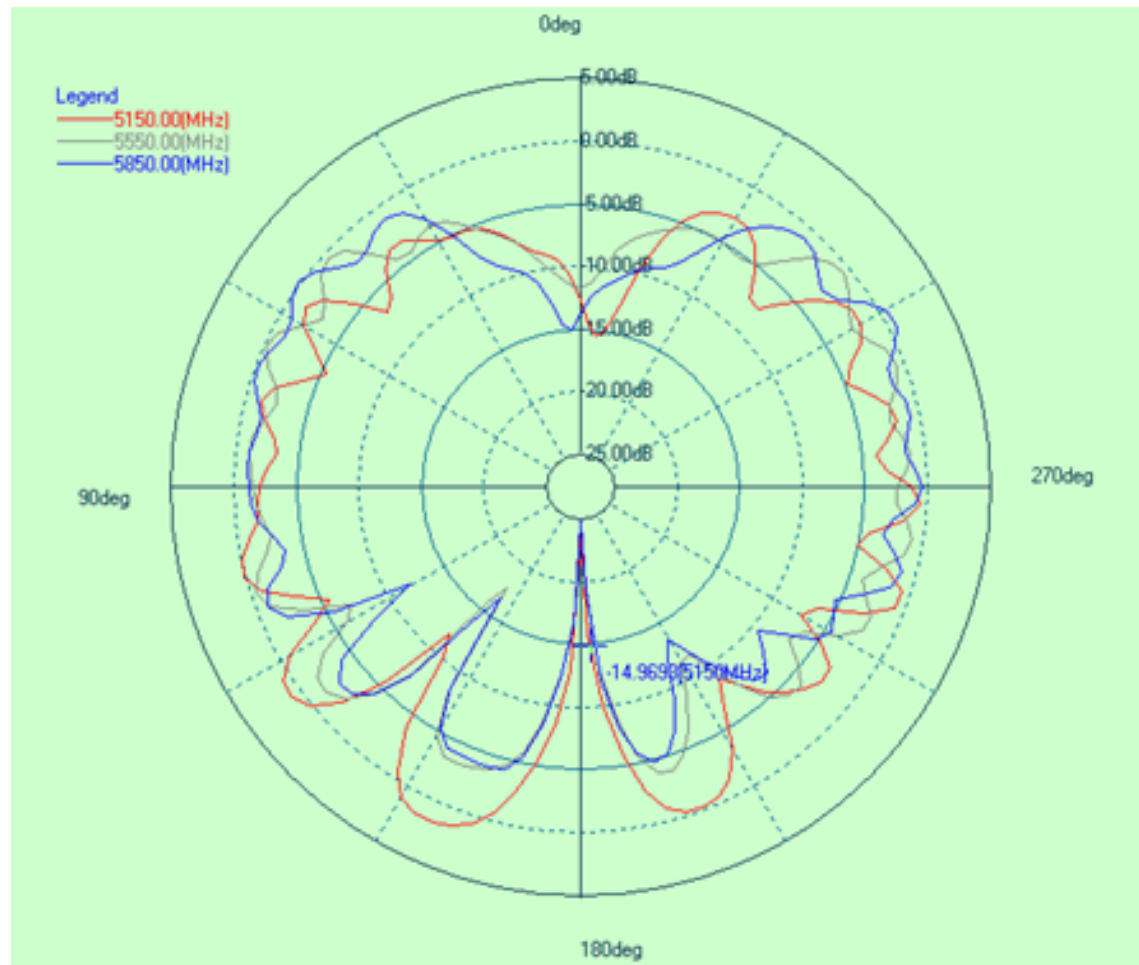


2D Radiation Pattern 2400.2450.2500 MHz XY Plane



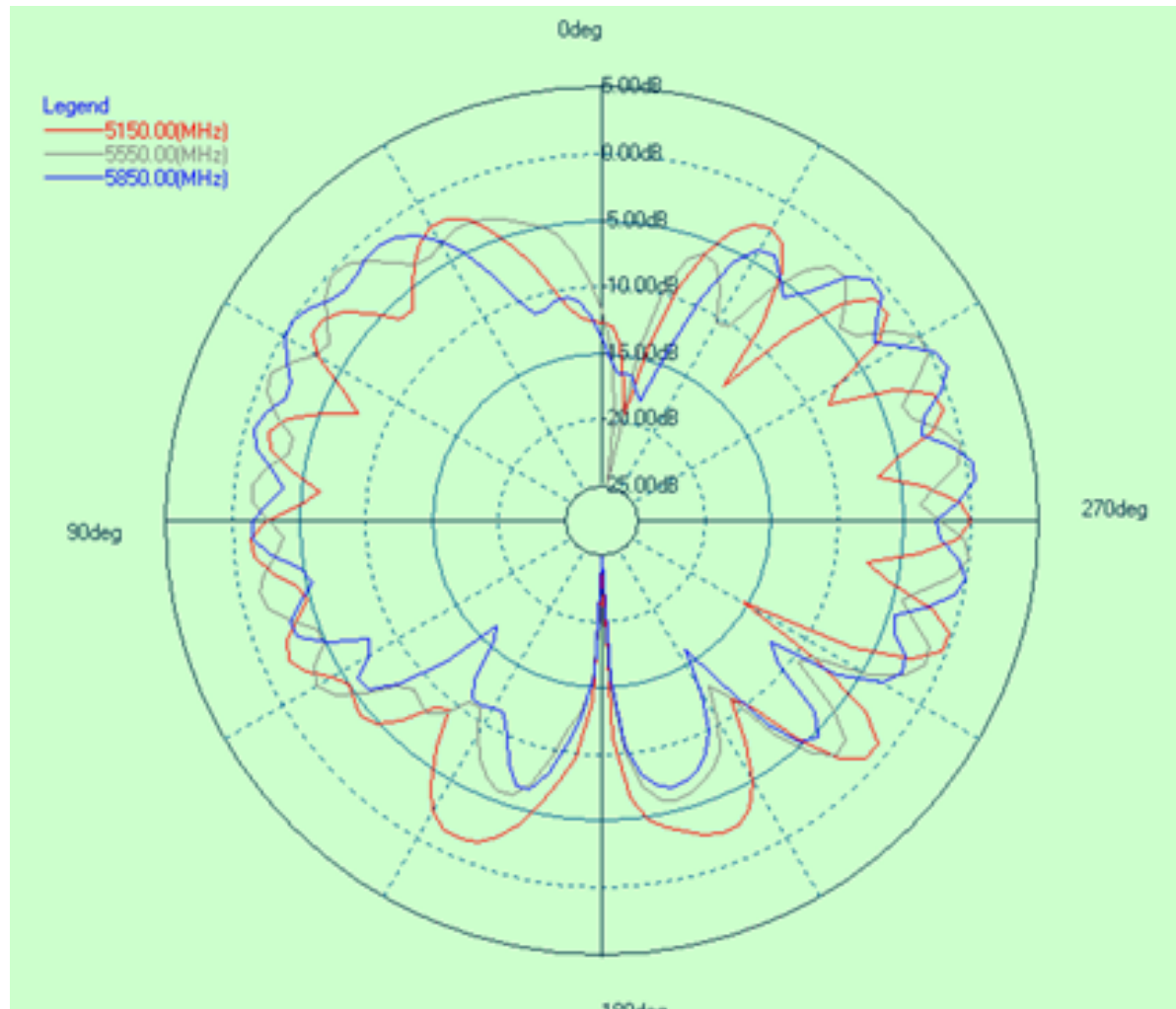


2D Radiation Pattern 5150~5850 MHz XZ Plane



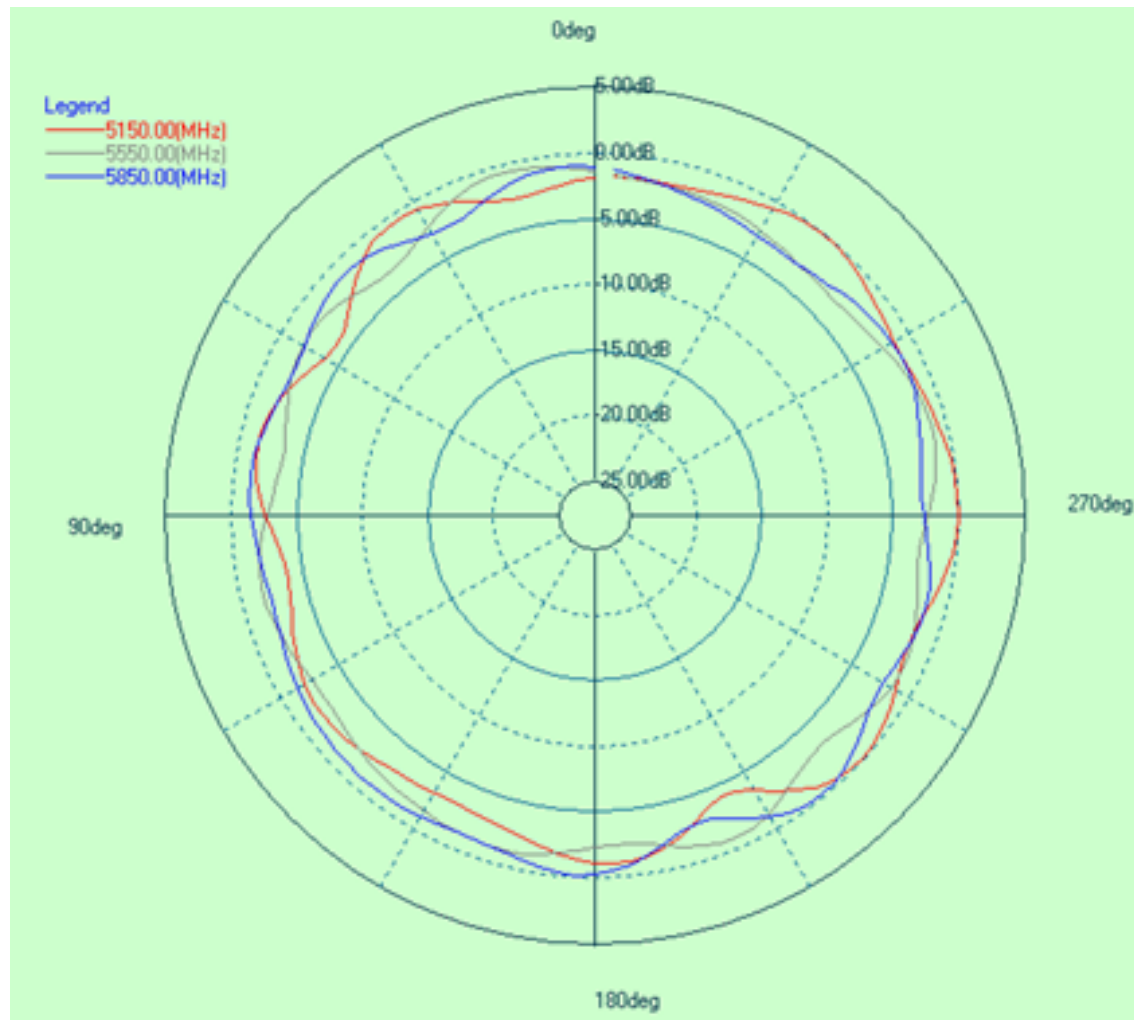


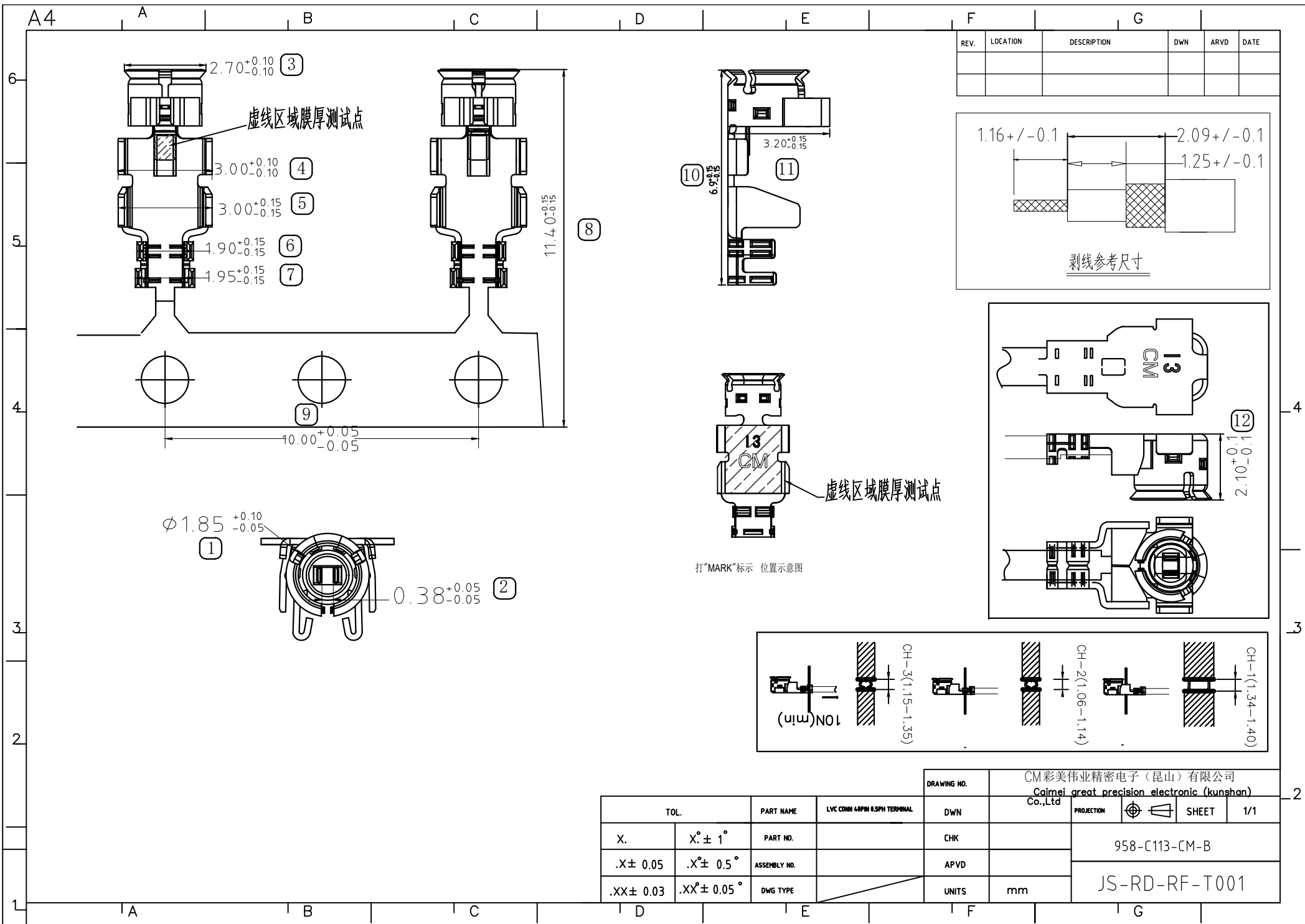
2D Radiation Pattern 5150~5850 MHz YZ Plane



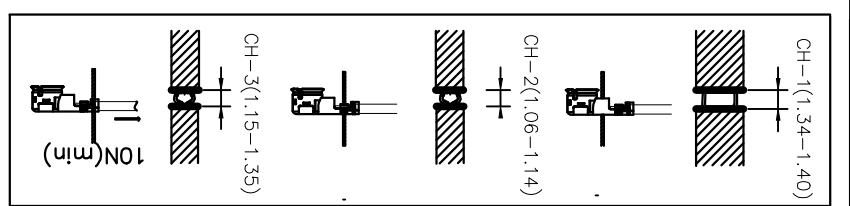
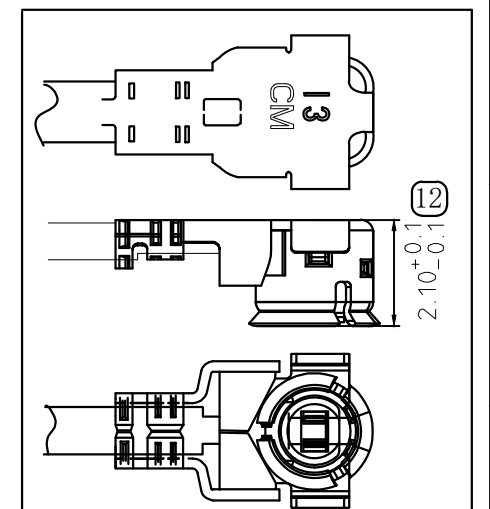
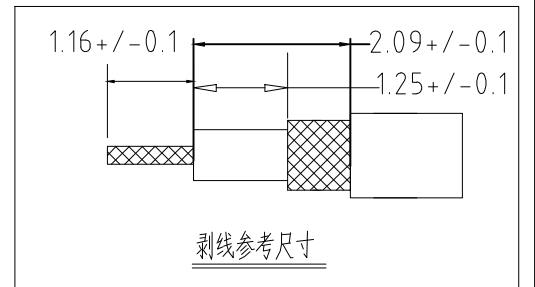


2D Radiation Pattern 5150~5850 MHz XY Plane





REV.	LOCATION	DESCRIPTION	DWN	ARVD	DATE



TOL.		PART NAME	LVC CONN 4PIN 0.5PH TERMINAL	DRAWING NO.	CM彩美伟业精密电子(昆山)有限公司 Gaimei great precision electronic (kunshan) Co.,Ltd			
X.	$X^{\circ} \pm 1^{\circ}$	PART NO.		DWN	PROJECTION		SHEET	1/1
.X ± 0.05	$.X^{\circ} \pm 0.5^{\circ}$	ASSEMBLY NO.		CHK	958-C113-CM-B			
.XX ± 0.03	$.XX^{\circ} \pm 0.05^{\circ}$	DWG TYPE		APVD	UNITS	mm	JS-RD-RF-T001	



線材規格

CABLE SPECIFICATION

SPECIFICATION: 1.13mm CABLE (Low Loss)		CONSTRUCTION D.W.G	
ITEM	SPECIFICATION		
CONDUCTOR	MATERIAL	Silver-coated Copper Wire	
	Composition(No./mm)	7/0.08	
	NOM.O.D(mm)	0.24±0.05	
INSULATION	Material	FEP(Natural)	
	Nom. Thick.(mm)	0.24	
TAPE	NOM.O.D(mm)	0.73±0.05	
	MATERIAL	Copper Mylar Tape	
BRAID	Composition(mm)	Vertical Wrapping the Copper Mylar Tape of 0.015	
	MATERIAL	Tinned annealed copper wire	
JACKET	Composition(mm)	Single Braid of 0.05	
	MATERIAL	FEP(*color)	
	Nom. Thick(mm)	0.1	
	Nom. O.D(mm)	1.18±0.05	
Color		According to corresponding have approved by the suppliers and customers	
Electrical Properties(at 20°C)			
Item	Unit	Details	
Conductor Resistance	Ω/km	Max.581	
Insulation Resistance	MΩ.km	Min.500	
Dielectric Strength	V(AC)/min	500	
Capacitance	pF/m	98	
REMARK			
MASTER WAVE TECHNOLOGY CO., LTD.			
CHECKED	DATE	2020/8/26	
DRAWING	REV	B	

Characteristic Impedance	Ω	50±2.0
Attenuation		1GHz 1.75
		2GHz 2.35
		3GHz 2.90
		4GHz 3.45
		5GHz 3.80
		6GHz 4.35
Temperature range	°C	-55~200
Standing wave(0-6GHz)	/	≦1.30
Rating Voltage	V	30