



東莞市科思聯科技有限公司

Dongguan Cos-link Technology Co.,Ltd

地址：東莞市長安鎮沙頭沙區裕成路翰詮科技大廈D2棟5樓

ADD: 5/F D2#Han Quan Science and Technology Building Yu Cheng

Yu Cheng Road Sha Tou District Chang'an Dongguan

產品承認書

Specification for Approval

客戶名稱

(Customer) :

晶訊科技股份有限公司

產品名稱

(Product) :

2.4GHz / 5GHz Dipole Antenna 5dBi

客戶料號

(Part No) :

30G000116-00

供方料號

(Part No) :

98158PSAX000

承認日期

(Date) :

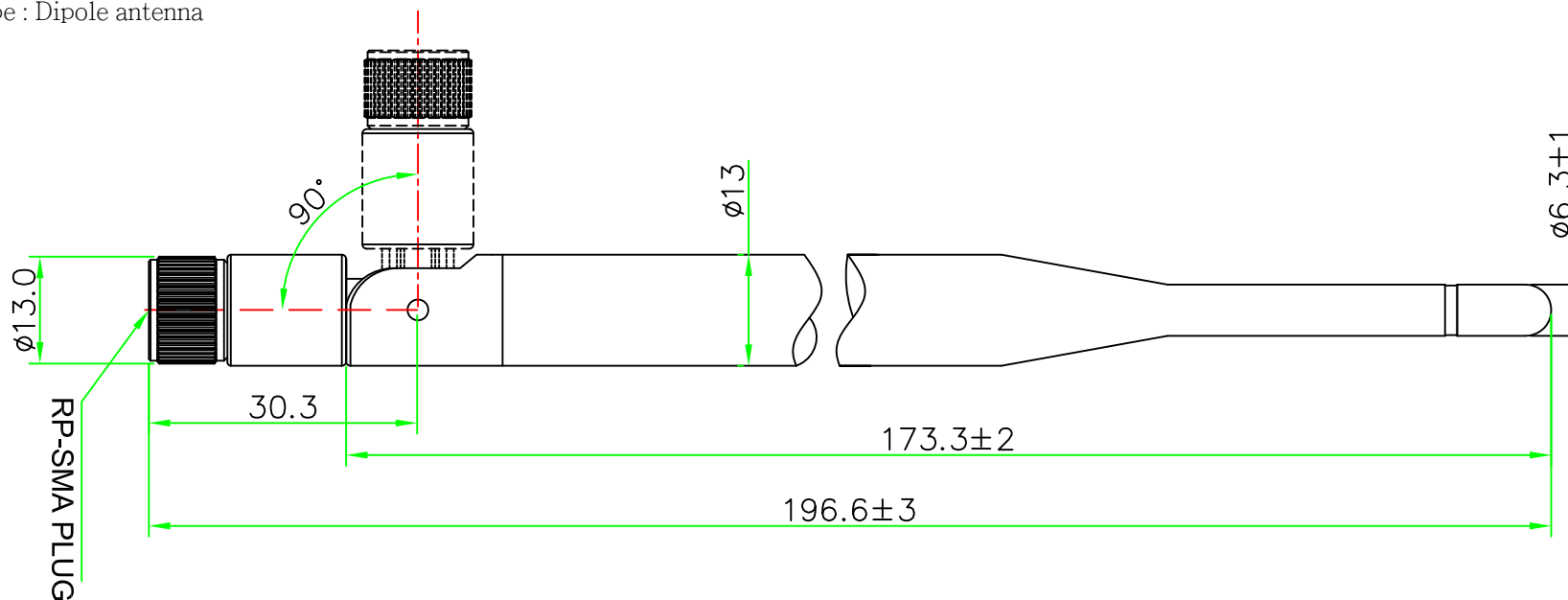
2023年10月10日

客戶承認 (Customer Approval)		內部檢核 (Signature)	
核 準 (Authorized)	檢 驗 (Approved)	核 準 (Authorized)	檢 驗 (Approved)
		<i>Peter</i>	<i>Billy</i>

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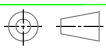
地址：東莞市長安鎮沙頭沙區裕成路翰詮科技大廈D2棟5樓
ADD : 5/F D2#Han Quan Science and Technology Building Yu Cheng
Yu Cheng Road Sha Tou District Chang'an Dongguan

Antenna Type : Dipole antenna



Electrical Properties

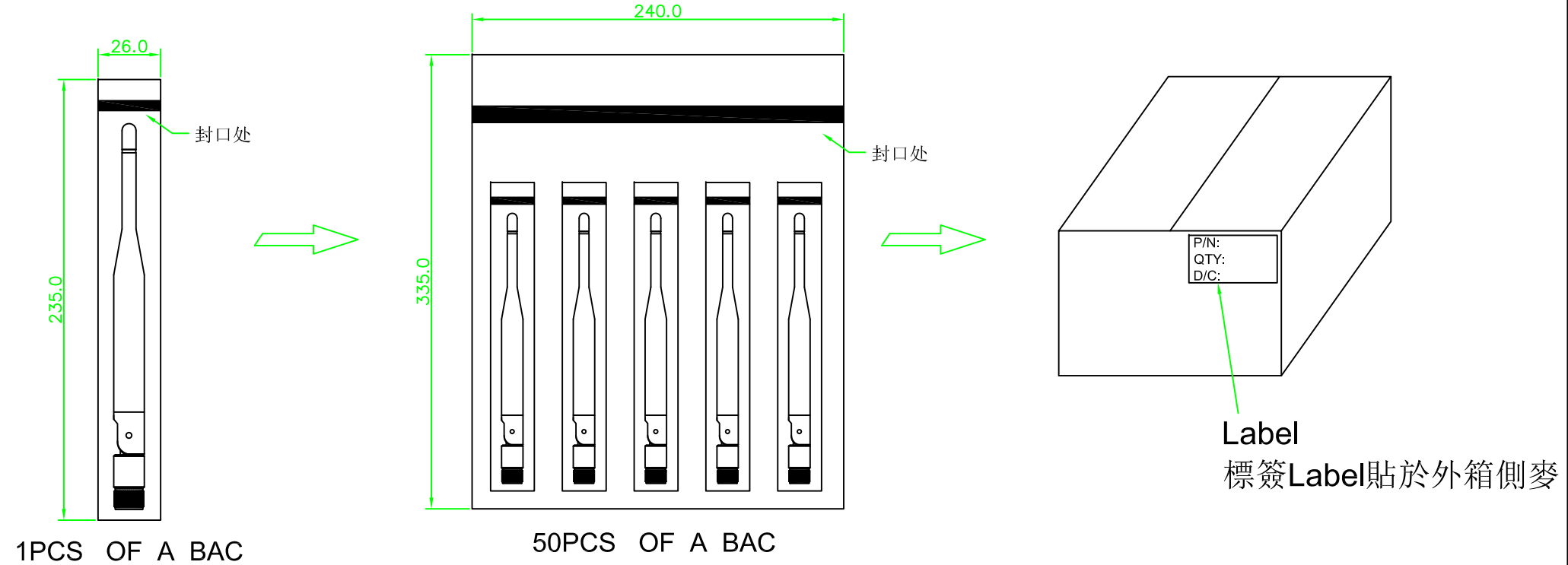
Frequency Range	2.4~2.5GHz	5.X GHz
Impedance	50Ω	
V.S.W.R	≤2.0	≤2.5
Radiation	Omni	
Gain	5 dBi	4 dBi
Polarization	Linear	
Mechanical Properties		
Whip	ABS	
Connector	SMA Female	
Weight	-	
Operating Temp	-20°C~+65°C	

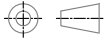
UNLESS OTHERWISE SPECIFIED TOLERANCES ON: ± 0.3	DATE: 2023 / 10 / 10	MAT'L:	 東莞市科思聯科技有限公司 Dong Guan Cos-Link Technology Co.,LTD	
	UNIT: MM	FINISH:		
	THIRD ANGLE PROJECTION 	SCALE:	TITLE : 2+5GHz ANTENNA (RP-SMA PLUG)	
APPROVED BY:	CHECKED BY:	DESIGNED BY:	DRAWN BY:	MODEL NO. : 98158PSAX000
PETER	MATT	BILLY	BILLY	PART NO. :
				REV 01
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO COS-LINK AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				

REV	ZONE	DESCRIPTION	ENG	APPROVED	DATE
01		新版无封	Billy	Peter	2023/10/10

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Dongguan Cos-link Technology Co.,Ltd.

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UNLESS OTHERWISE SPECIFIED TOLERANCES ON: ± 0.3		DATE: 2023 / 10 / 10	MAT'L:	 東莞市科思聯科技有限公司 Dong Guan Cos-Link Technology Co.,LTD	
		UNIT: MM	FINISH:		
		THIRD ANGLE PROJECTION 	SCALE:	TITLE : 包裝圖	
APPROVED BY:	CHECKED BY:	DESIGNED BY:	DRAWN BY:	MODEL NO. : 98158PSAX000	REV
PETER	MATT	BILLY	BILLY	PART NO. :	01
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO COS-LINK AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.					

Product Number: 98158PSAX000

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency 频率	2400-2500 / 5150-5850 MHz
S.W.R. 驻波比	<= 2.5
Antenna Gain 增益	5 dBi /4 dBi (Reference Gain)
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Plastic 塑胶材质	ABS/PC+PBT/POM
Cable Type 线材规格	RG178
Connector Type 连接器规格	RP-SMA PLUG (Female)
C. Environmental	
Storage Temperature 存储温度	- 30 °C ~ + 65 °C
Operation Temperature 工作温度	- 30 °C ~ + 65 °C
Antenna Color Storage life 天线颜色存储寿命	< 2 year

Product Number: 98158PSAX000

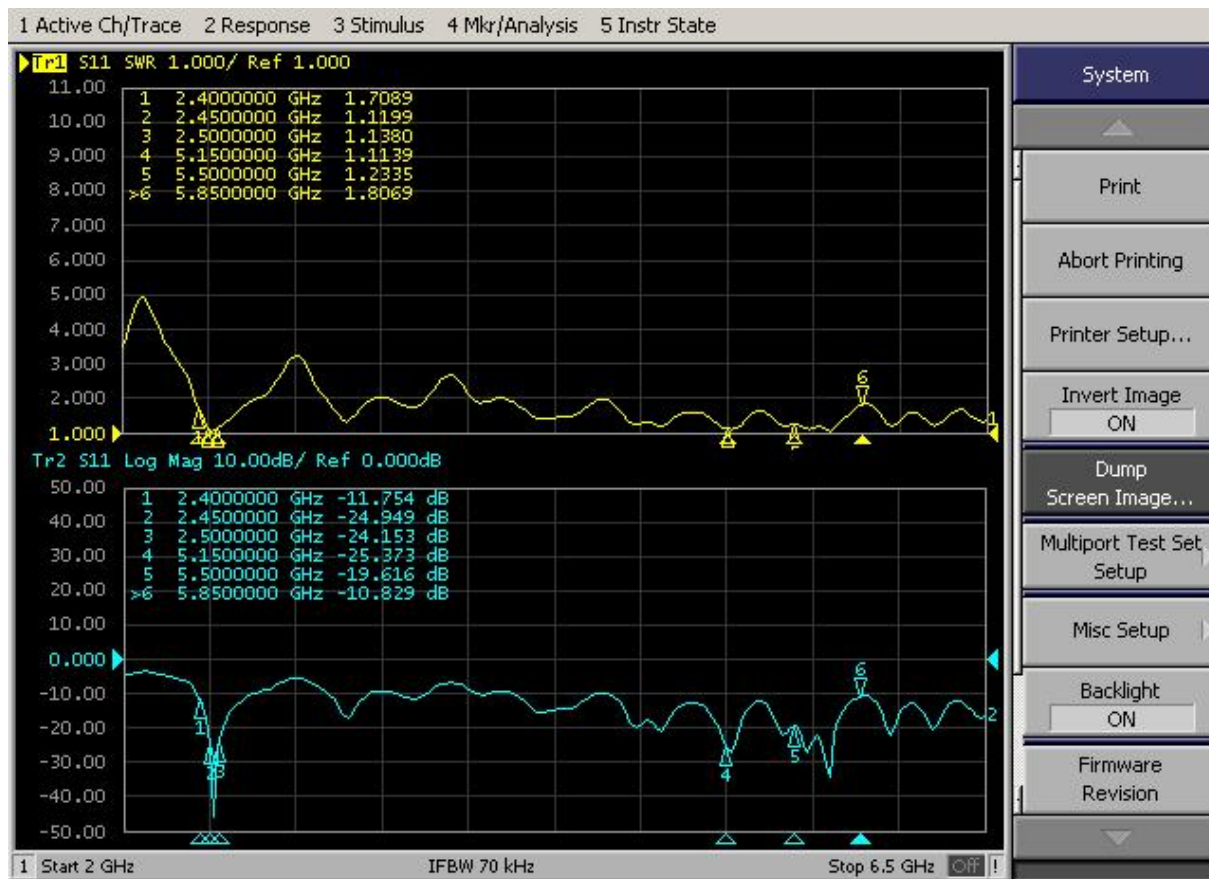
Product Name: Antenna

2. Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
2	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal 单独定义产品端子拉力	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
4	Torque Test 扭力	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal 单独定义产品端子之顺时针及逆时针扭力	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$ 符合待测物规范; 频率偏移 $\leq 5\%$	PASS
5	Dimension 尺寸	Inspection of dimension, color, material, package, surface process. 检查尺寸, 颜色, 材料, 包装, 表面处理	Directive DUT specification 符合待测物规范	PASS
6	Waterproof 防水	With Reference to IEC 60529 // IP Code Definition 参考 IEC60529 IP 定义	Directive DUT specification 符合待测物规范	NA
7	Salt Spray 盐雾	GB / T 2423.17-2008 Temp: 35°C; RH: $\geq 95\%$; NaCl solution: $\geq 5\%$; Time: 24H 温度 35°C; 湿度 $\geq 95\%$; 盐水浓度 $\geq 5\%$; 测试 24H	1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
8	Temperature and Humidity Chamber 恒温恒湿	GB / T 2423.3-2006 Temp: 65°C / 12 H; -30°C / 12H RH: $\geq 90\%$; Time: 24H 温度 65°C 测试 12H 转 -30°C 测试 12H; 湿度 $\geq 90\%$; 时间 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 恢复 2H 后, 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
9	Aging test 老化	GB / T 2423.2 - 2008 Temp: 65°C; Time: 24 hours 温度 65°C, 测试 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol. $\leq 5\%$ 无明显外观不良; 频率偏移 $\leq 5\%$	PASS
10	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2011/65/EU 符合 RoHS 2015/863/EU 标准	PASS

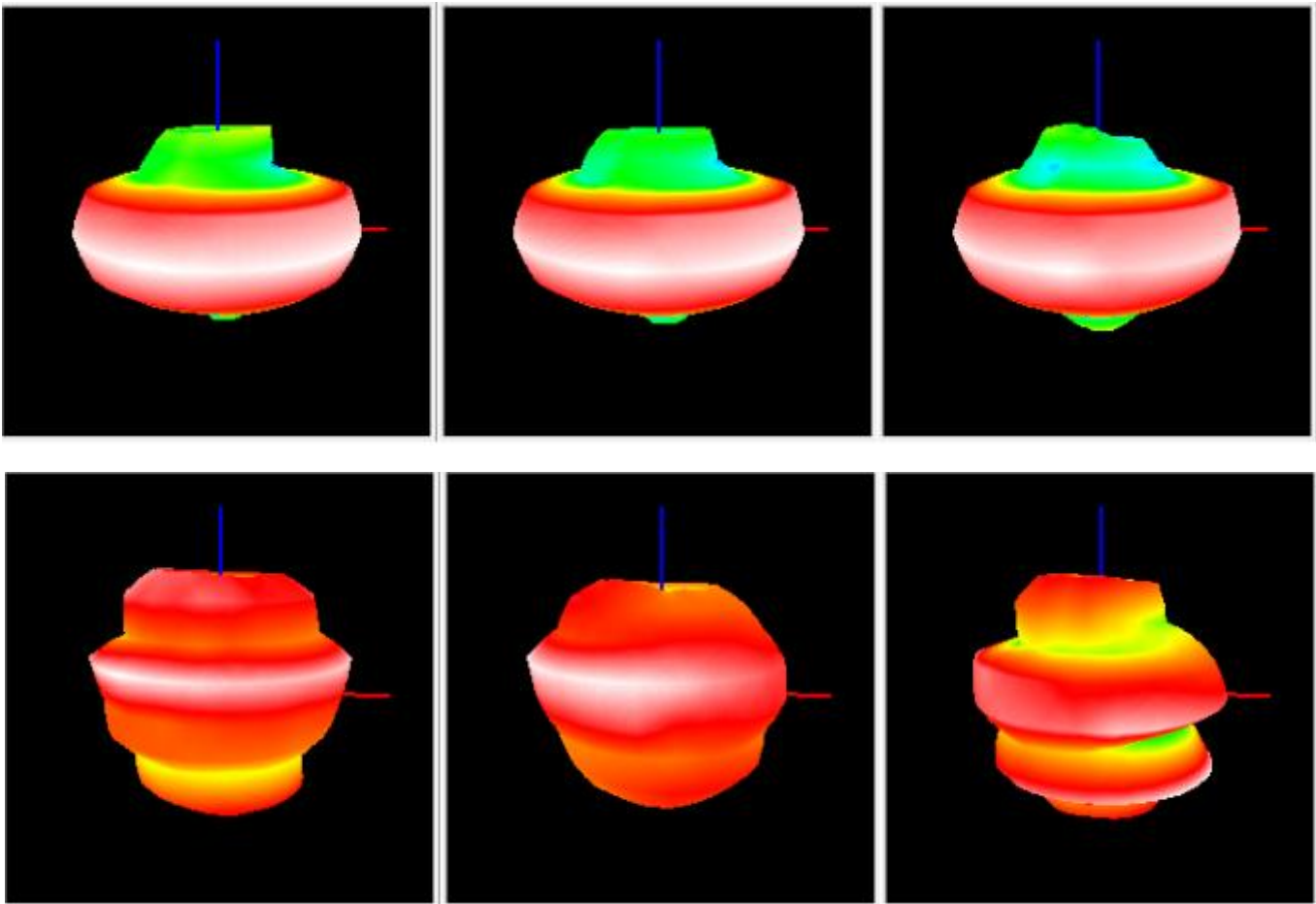
Product Number: 98158PSAX000
Product Name: Antenna

3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Product Number: 98158PSAX000
Product Name: Antenna

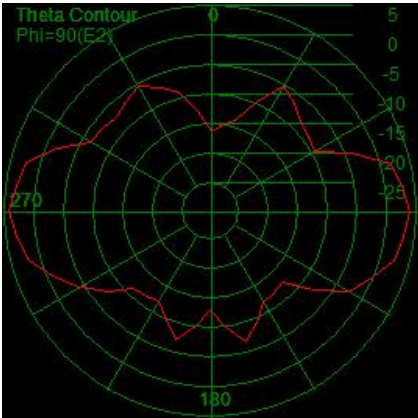
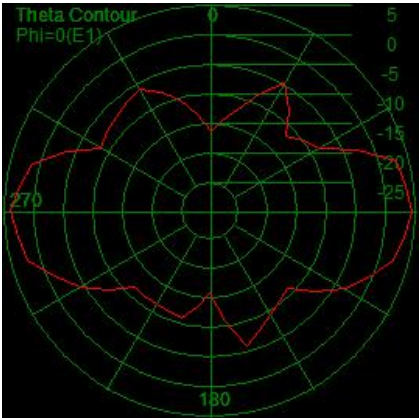
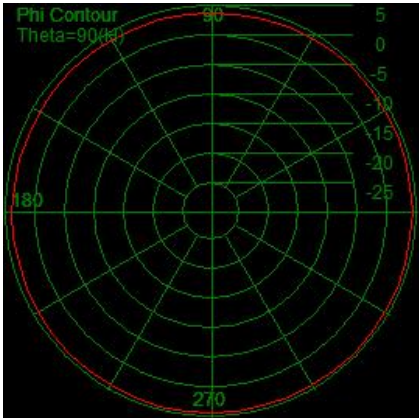


XY_Plane

XZ_Plane

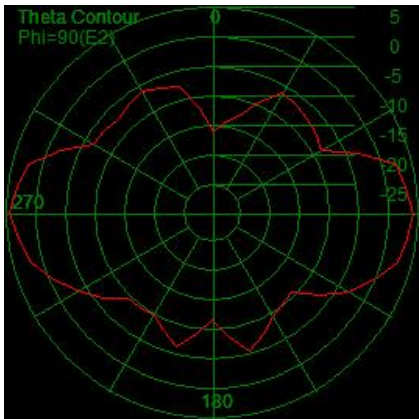
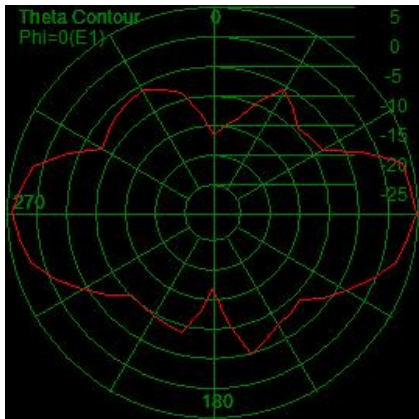
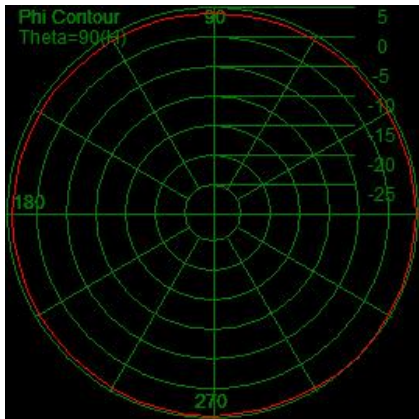
YZ_Plane

2400MHz

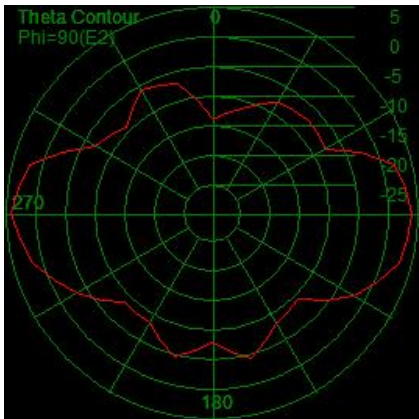
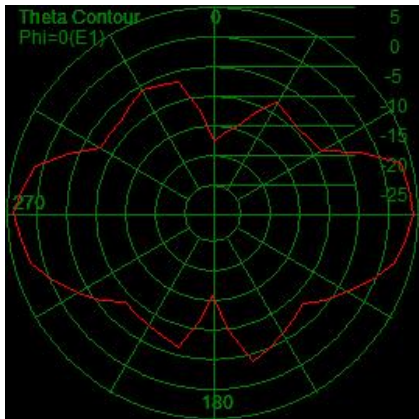
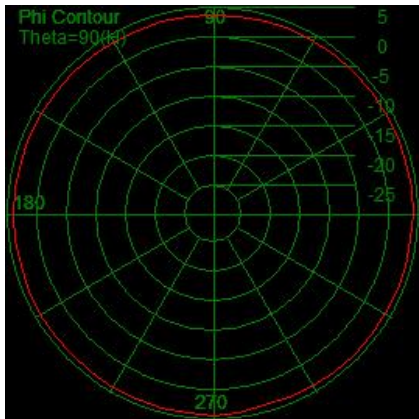


Product Number: 98158PSAX000
Product Name: Antenna

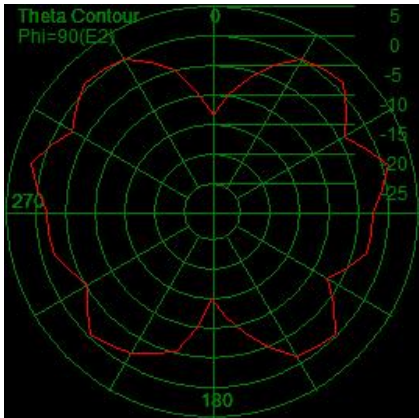
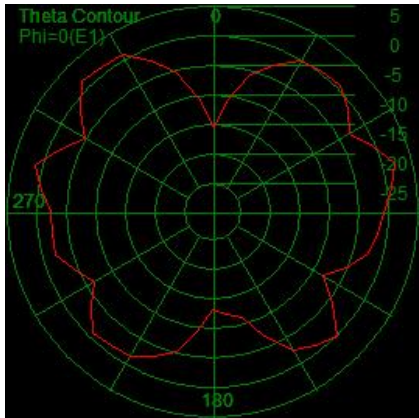
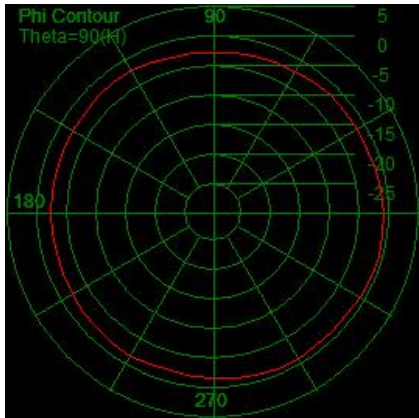
2450MHz



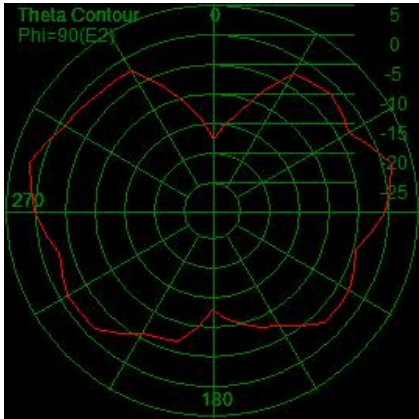
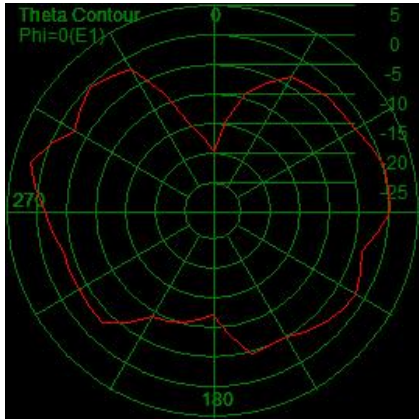
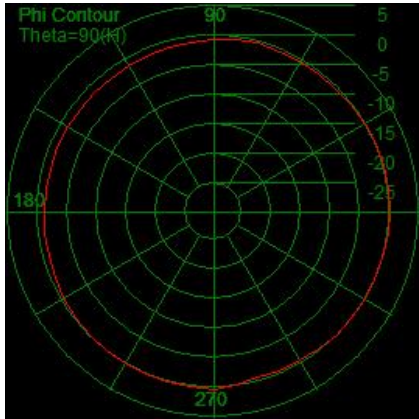
2500MHz



5150MHz



5550MHz



Product Number: 98158PSAX000
Product Name: Antenna

5850MHz

