

深圳市欧源通科技有限公司
ShenZhen OuYuanTong Technology CO.,LTD.

样品承认书

SPECIFICATION OF APPROVAL

Specification: 2.4G/5G Dual Frequency /Rubber Rod Wifi Antenna/SMA Inner
Screw & Hole/Foldable

Customer: Colorlight Cloud Tech Ltd

Customer PN: 1-1-1-CNLJ-0030759

MFG: Shenzhen OuYuanTong Technology Co.,LTD

MFG PN: OYT30112

Date: 2023-08-02

MFG APPROVED		
FAE	SQE	Sale

CUSTOMER APPROVED			
Buyer		FAE	SQE
New PN ☐	P2P PN ☐	Test passed ☐	Test Passed ☐

*V2 VERSION: Sealed by three copies.

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CATALOGUE

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1. Features

Wifi Antenna: dual frequency/ high gain&efficiency;

Applications in Vehicle mobile terminals, security, communication base stations, intelligent indoor and outdoor cabinets, etc;

Small, easy to install, working normally in hard electromagnetic environments for long time;

Gain and efficiency, anti-interference capabilities;

2. Specifications

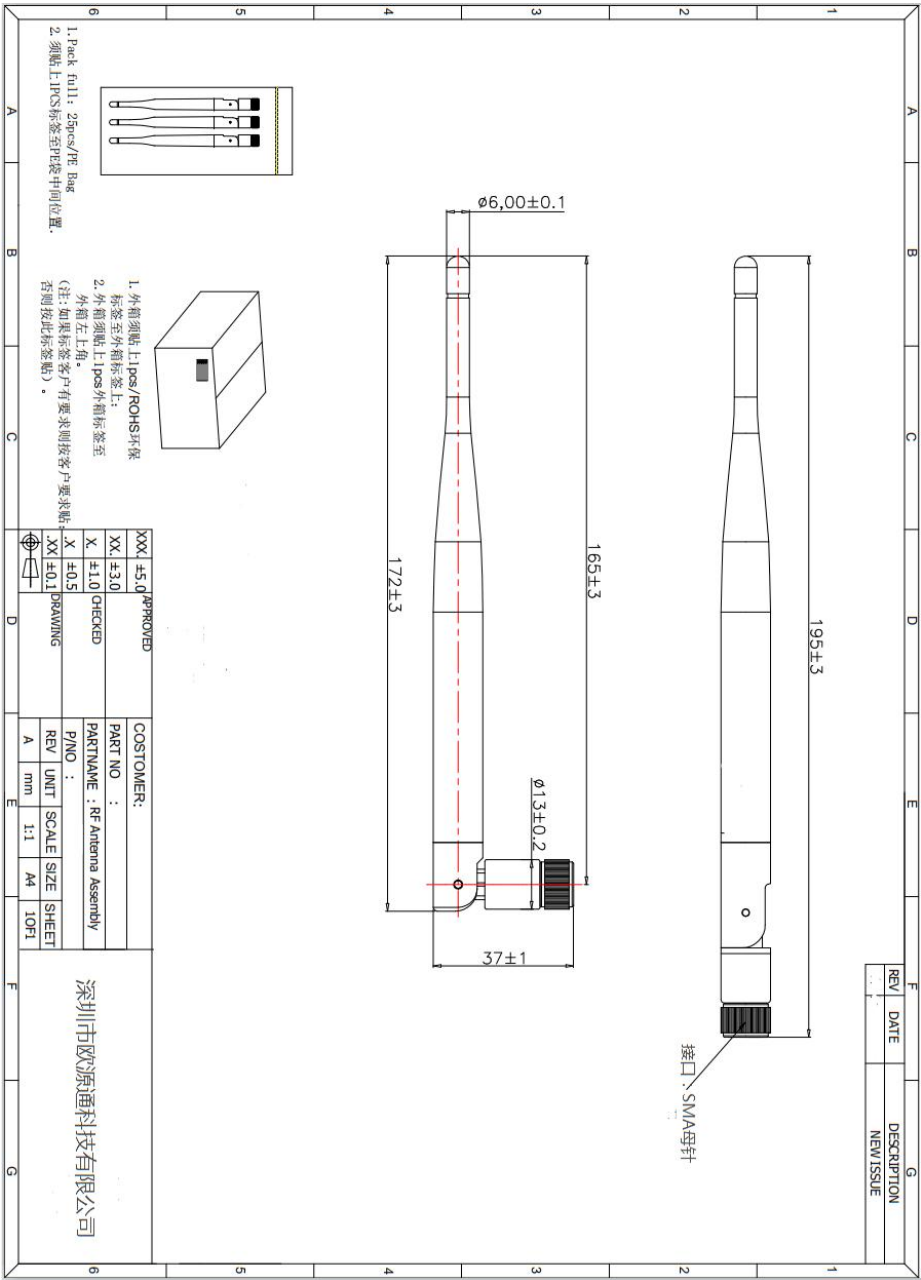
主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500MHz 5150-5850MHz	Frequency Range (MHZ)	2400-2500MHz 5150-5850MHz
特性阻抗 (Ω)	50	Impedance (Ω)	50
增益(dBi)	5.0	Gain(dBi)	5.0
输出电压 驻波比	≤2.0	VSWR	≤2.0
最大输出功率	50W	Power handling	50W
极化方式	垂直极化	Polarization	Linear, Vertical
辐射方向	全向	Radiation pattern	全向
连接方式	SMA (内孔)	Connector Type	SMA (内孔)
物理性能		Physical Properties	
天线本体材料	TPEE	Antenna Base	TPEE

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工作温度	-30℃~+75℃	Operating Temp	-30℃~+75℃
保存温度	-30℃~+75℃	Storage Temp	-30℃~+75℃

3. Product Overview

3.1 Product Overvie



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4. Test Report

4.1: Test Equipment

SATIMO Darkroom



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4.2: Gain and Efficiency

Passive Test For WIFI2.4/5.8							
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	69.76	-1.56	4.25	5150	73.81	-1.32	2.84
2410	69.14	-1.6	4.26	5200	71.99	-1.43	2.99
2420	70.23	-1.53	4.38	5250	70.05	-1.55	3.18
2430	71.19	-1.48	4.45	5300	66.84	-1.75	3.41
2440	73.88	-1.31	4.65	5350	68.63	-1.63	3.86
2450	74.94	-1.25	4.73	5400	74.64	-1.27	4.44
2460	71.51	-1.46	4.52	5450	67.91	-1.68	4.03
2470	69.02	-1.61	4.38	5500	61.35	-2.12	3.46
2480	69.71	-1.57	4.46	5550	64.11	-1.93	3.5
2490	69.89	-1.56	4.47	5600	64.92	-1.88	3.56
2500	65.18	-1.86	4.14	5650	73.57	-1.33	4.12
				5700	69.68	-1.57	3.89
				5750	68.8	-1.62	3.64
				5800	65.33	-1.85	3.21
				5850	72.64	-1.39	3.4

2400.00MHz - 2500.00MHz Gain



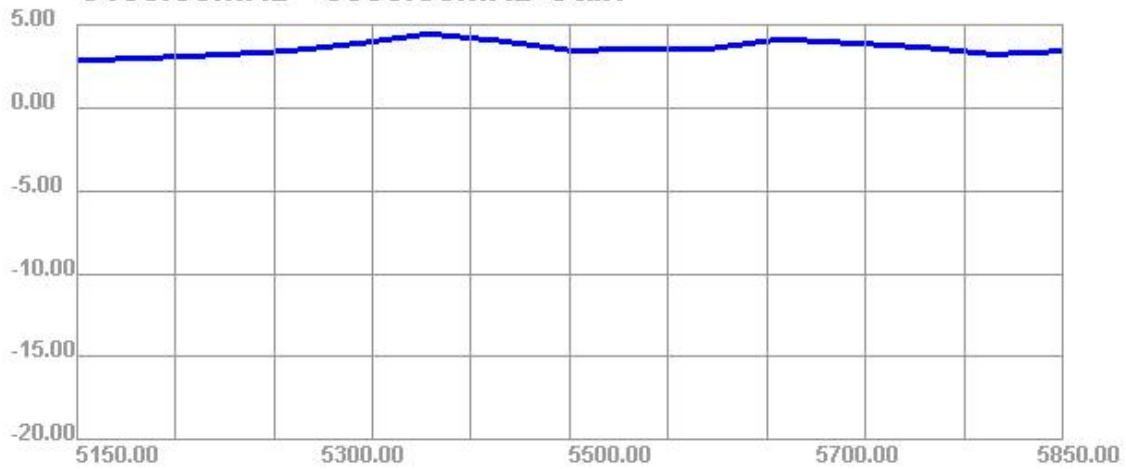
2400.00MHz - 2500.00MHz Efficiency



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5150.00MHz - 5850.00MHz Gain

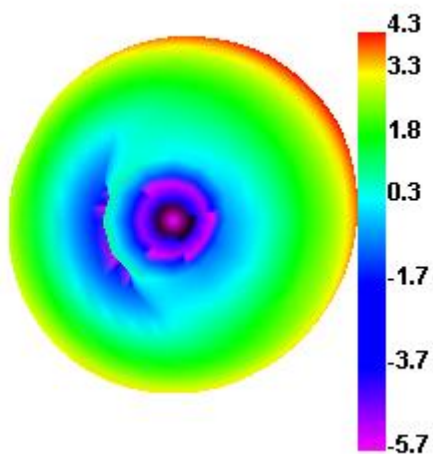


5150.00MHz - 5850.00MHz Efficiency

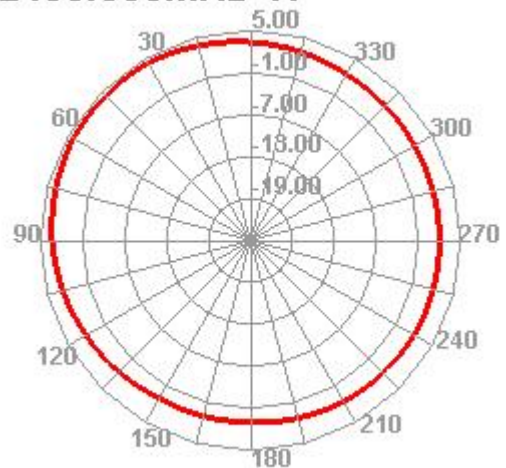


4.3: Darkroom 2D、3DRaditation Pattern

2400.000MHz



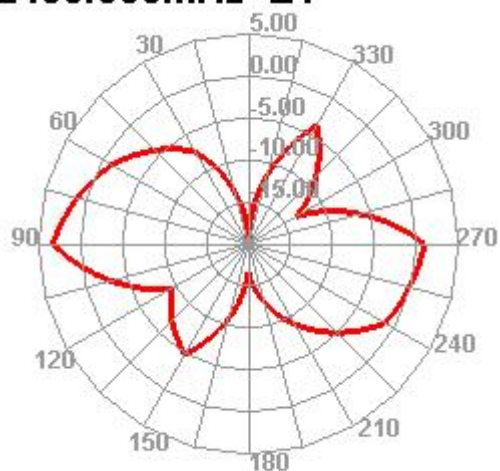
2400.000MHz H



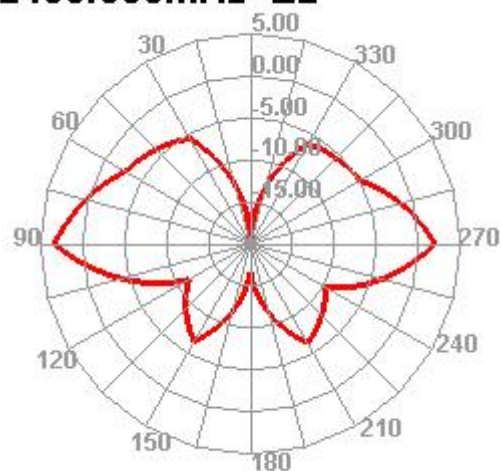
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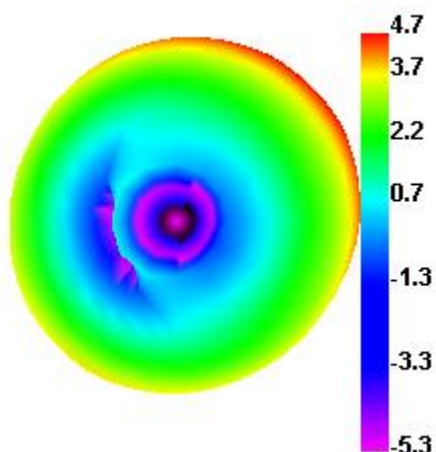
2400.000MHz E1



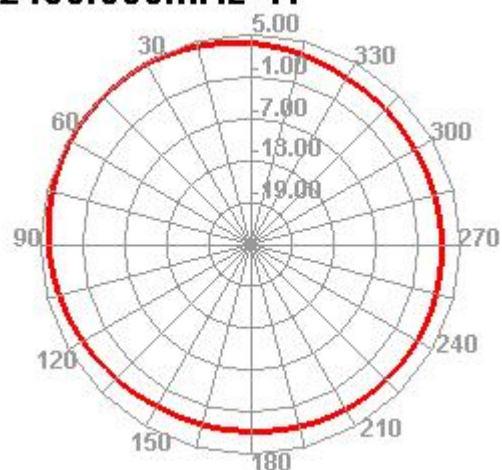
2400.000MHz E2



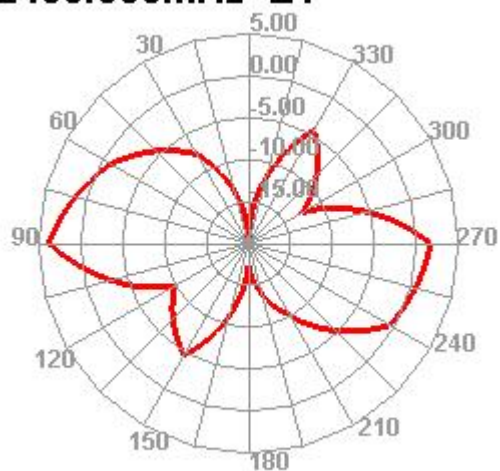
2450.000MHz



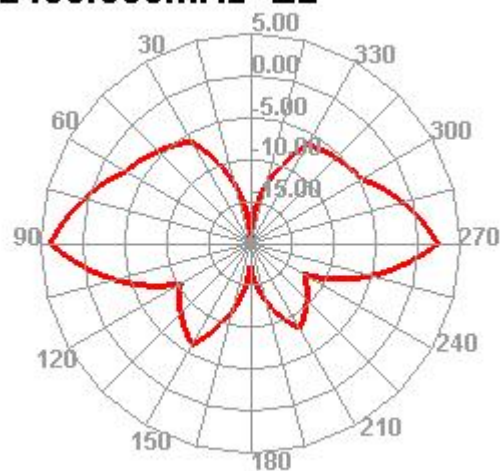
2450.000MHz H



2450.000MHz E1



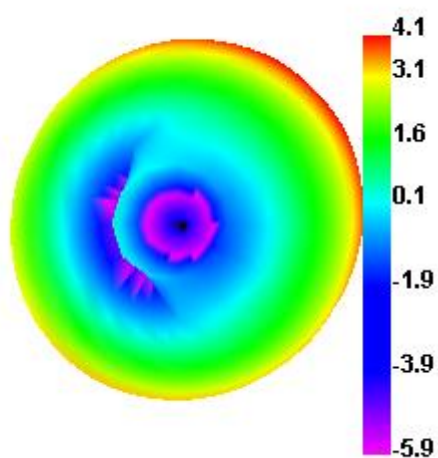
2450.000MHz E2



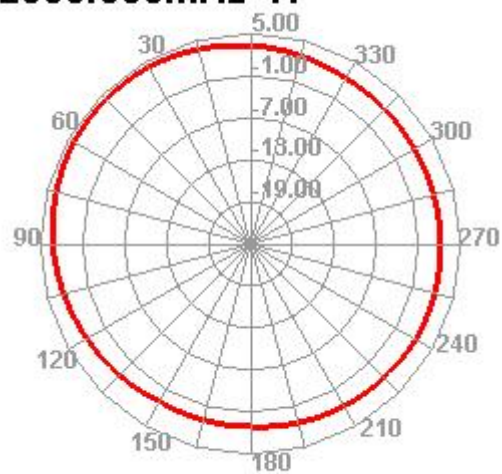
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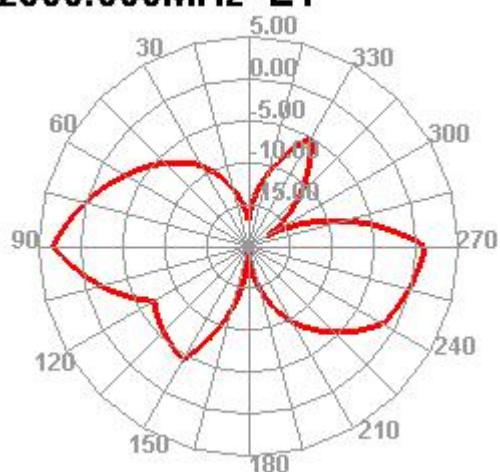
2500.000MHz



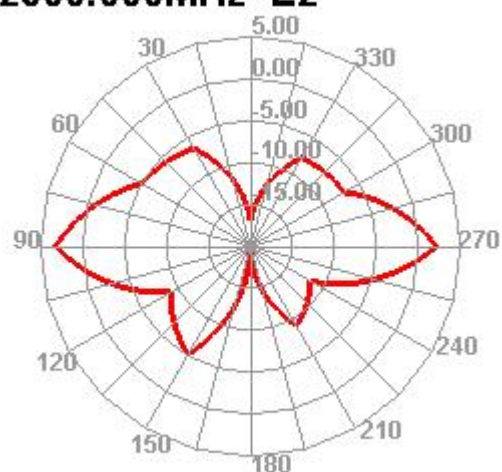
2500.000MHz H



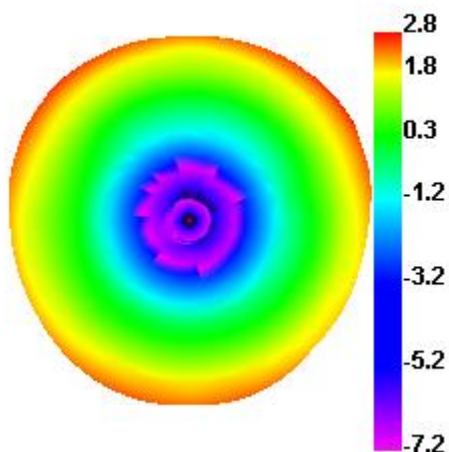
2500.000MHz E1



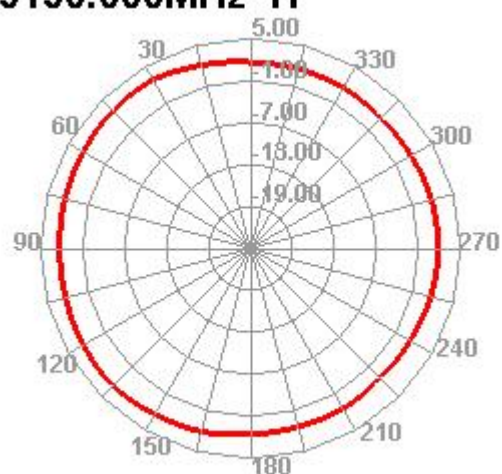
2500.000MHz E2



5150.000MHz



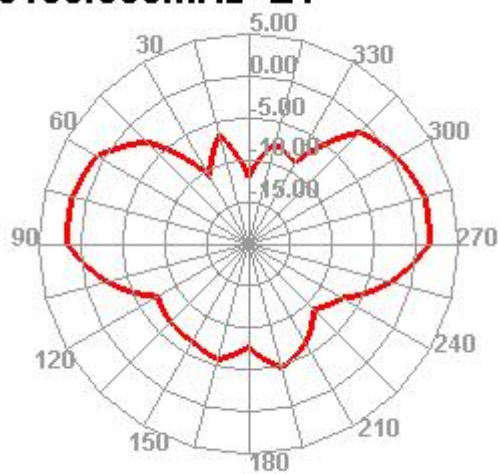
5150.000MHz H



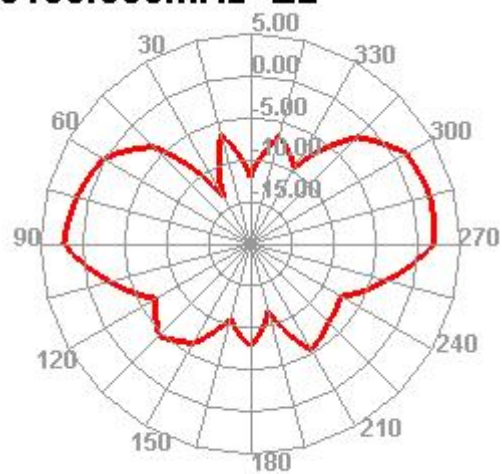
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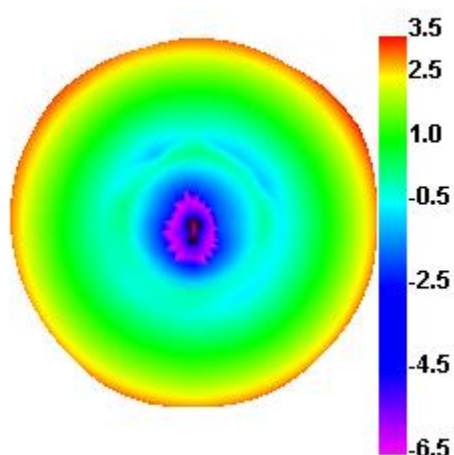
5150.000MHz E1



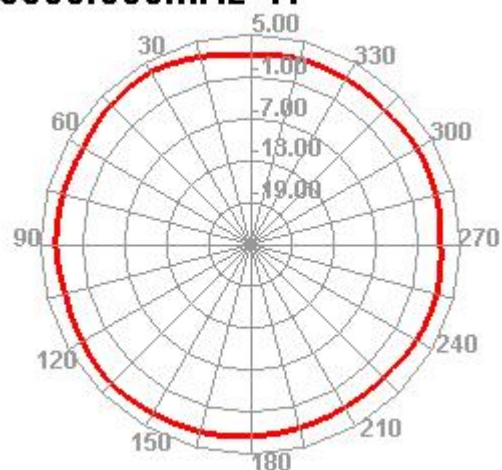
5150.000MHz E2



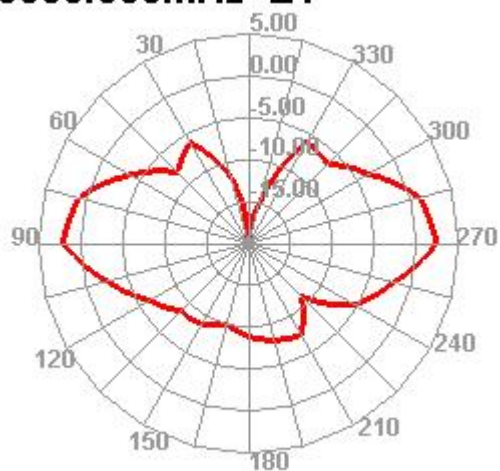
5500.000MHz



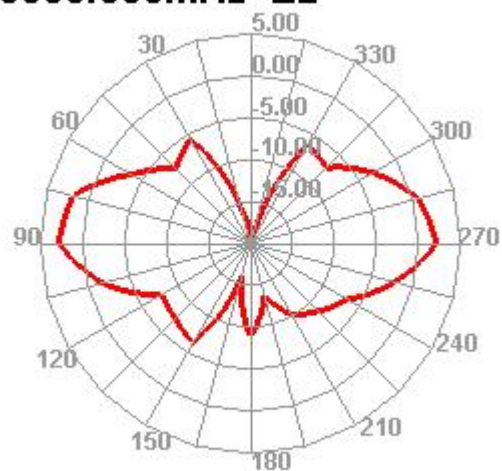
5500.000MHz H



5500.000MHz E1



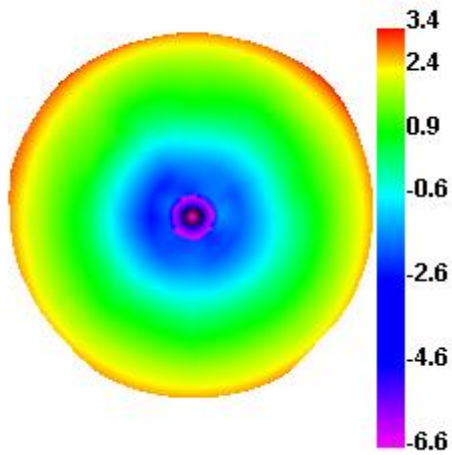
5500.000MHz E2



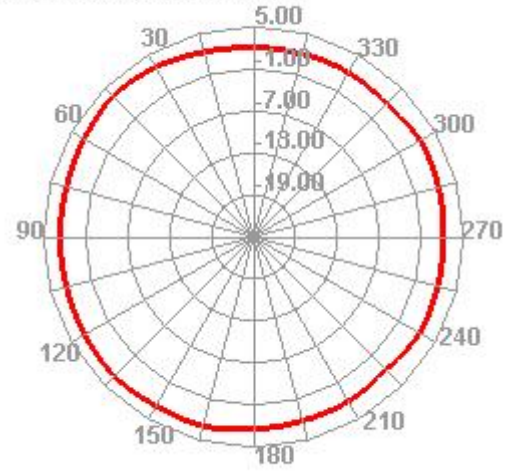
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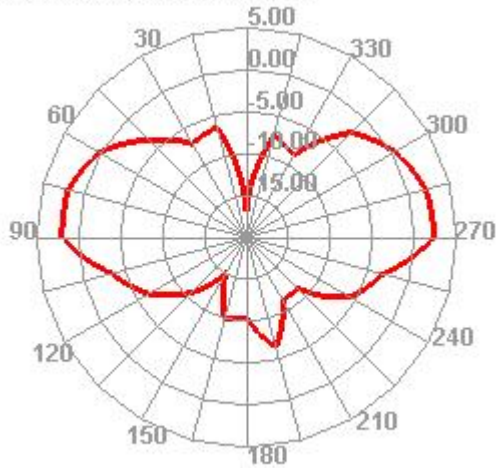
5850.000MHz



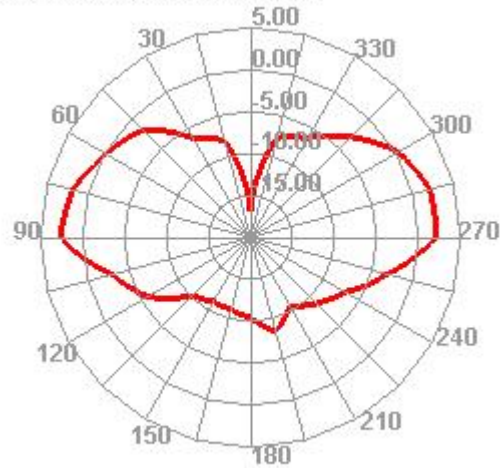
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



5. Package

Package : customization (agreed by 50pcs/pack) .