

HELIX 合立讯 Antenna specifications



Customer	良友
Project	OASIS
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 04. 29



2.TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C





Purpose

This report is to measure the performance of antenna for **OASIS** The antenna operating frequency at 2400MHz0-2500MHz 。 All test data are showed as below.

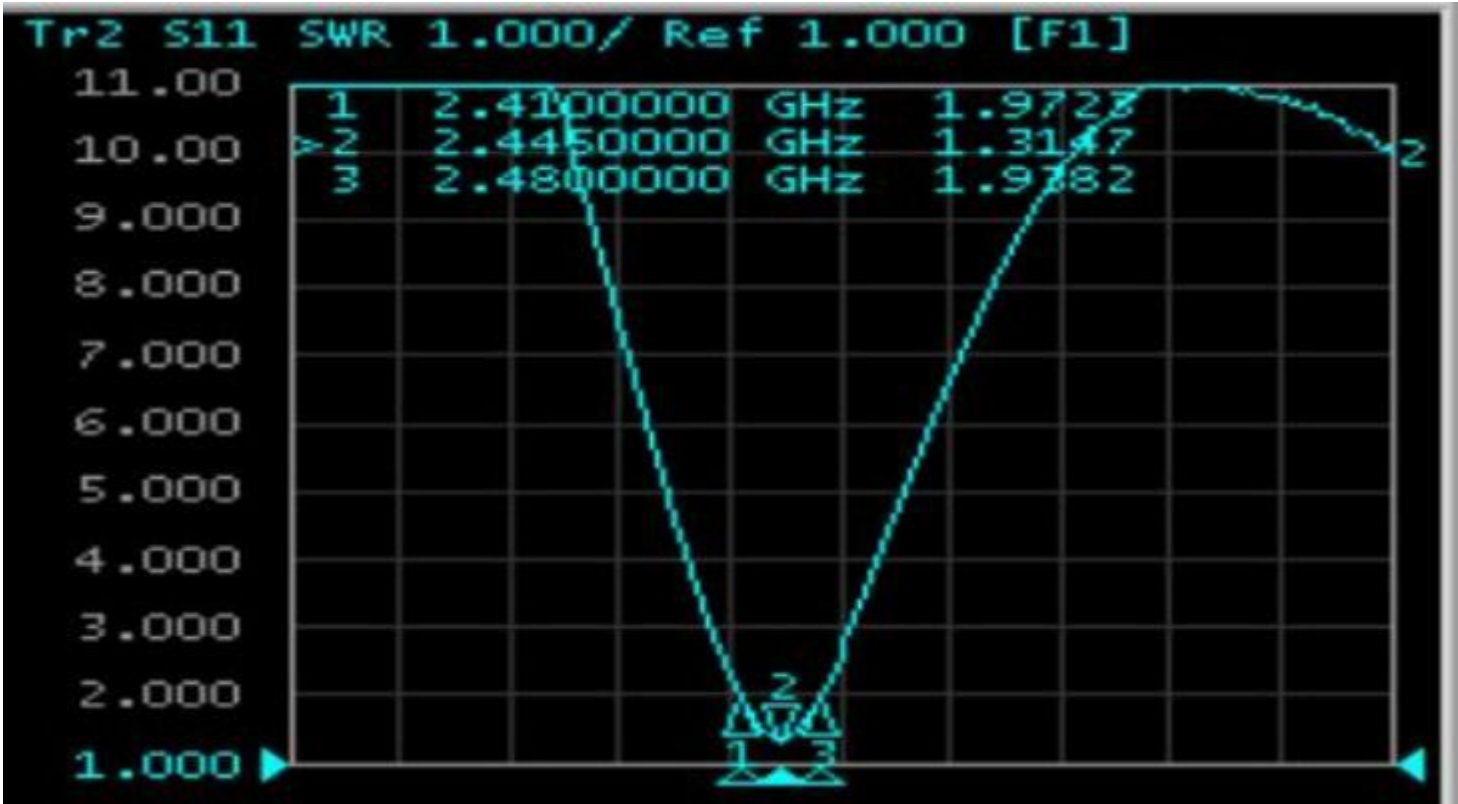
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3. 1 Test Result

1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	
VSWR	1.97	1.31	1.93	

3. 1 Test Result

2. S11 Parameter-Log Mag

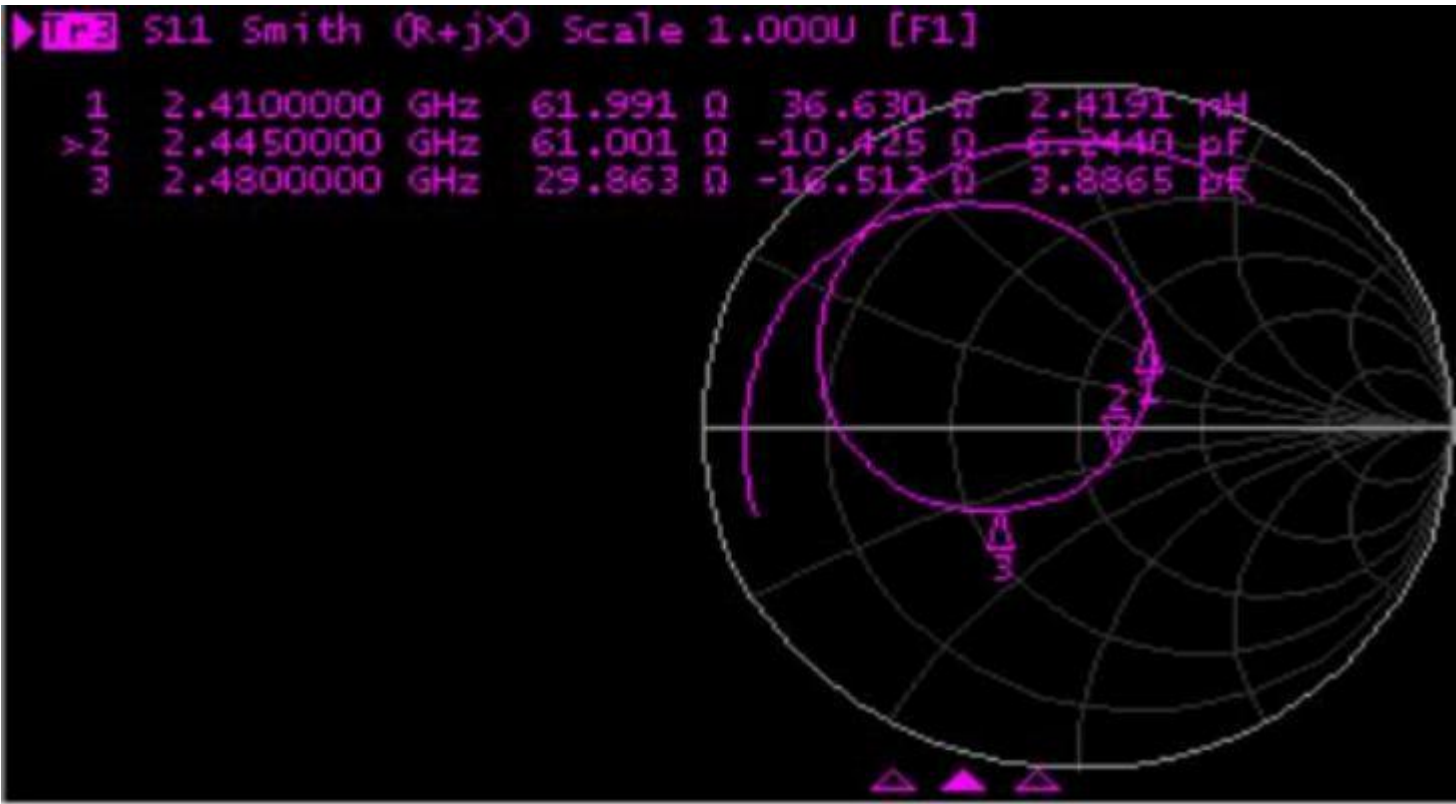


Frequency (MHz)	2400	2450	2480	
Log Mag	-9.70	-17.33	-9.91	



3. 1 Test Result

3 .S11 Parameter-Smi th



Frequency (MHz)	2400	2450	2480	
Smi th(Ω)	61.99	61.00	29.86	

3.2 Test Result

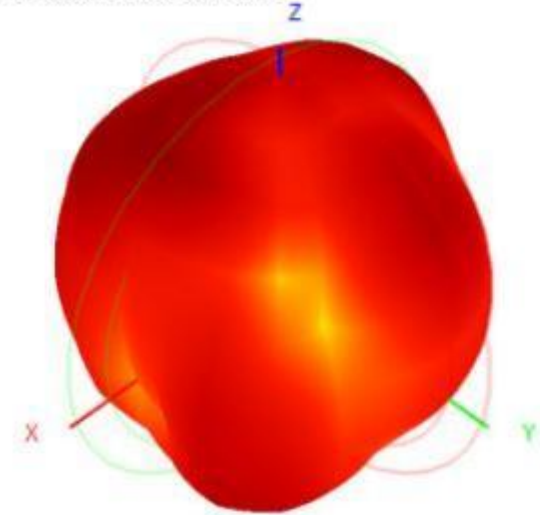
1 Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	35.02	-0.83
2410	35.86	-0.54
2420	36.56	-0.17
2430	37.20	0.13
2440	37.81	0.44
2450	38.34	0.78
2460	38.58	0.92
2470	38.75	1.05
2480	38.46	1.05

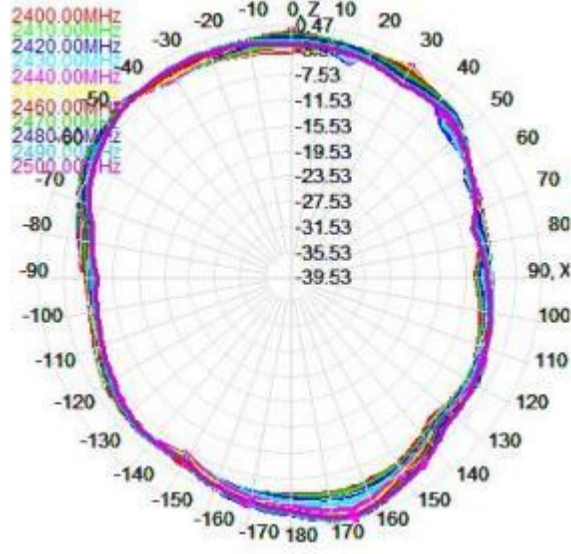
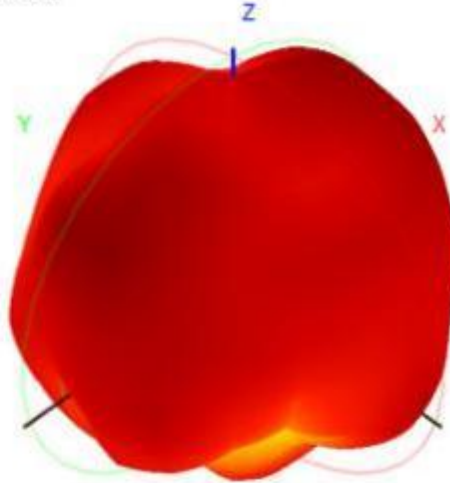
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff: 35.0%

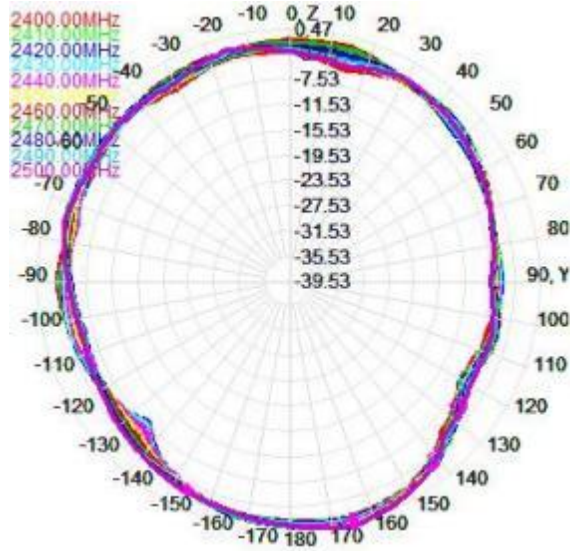
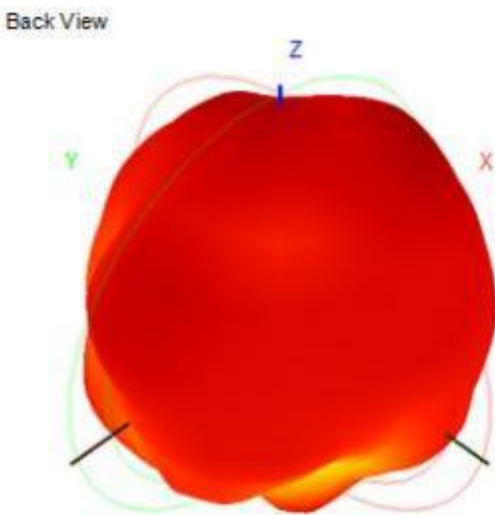
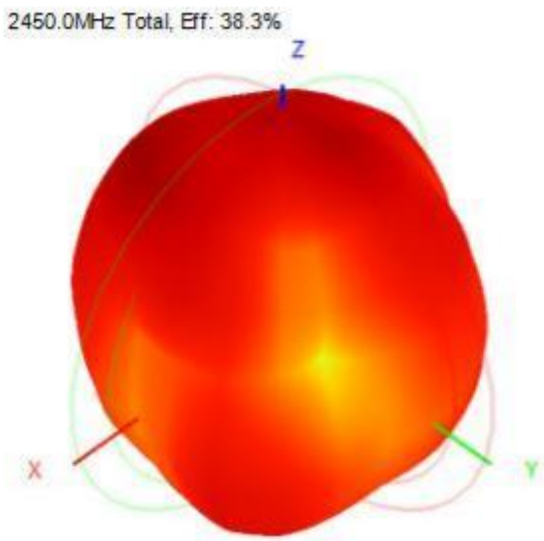


Back View



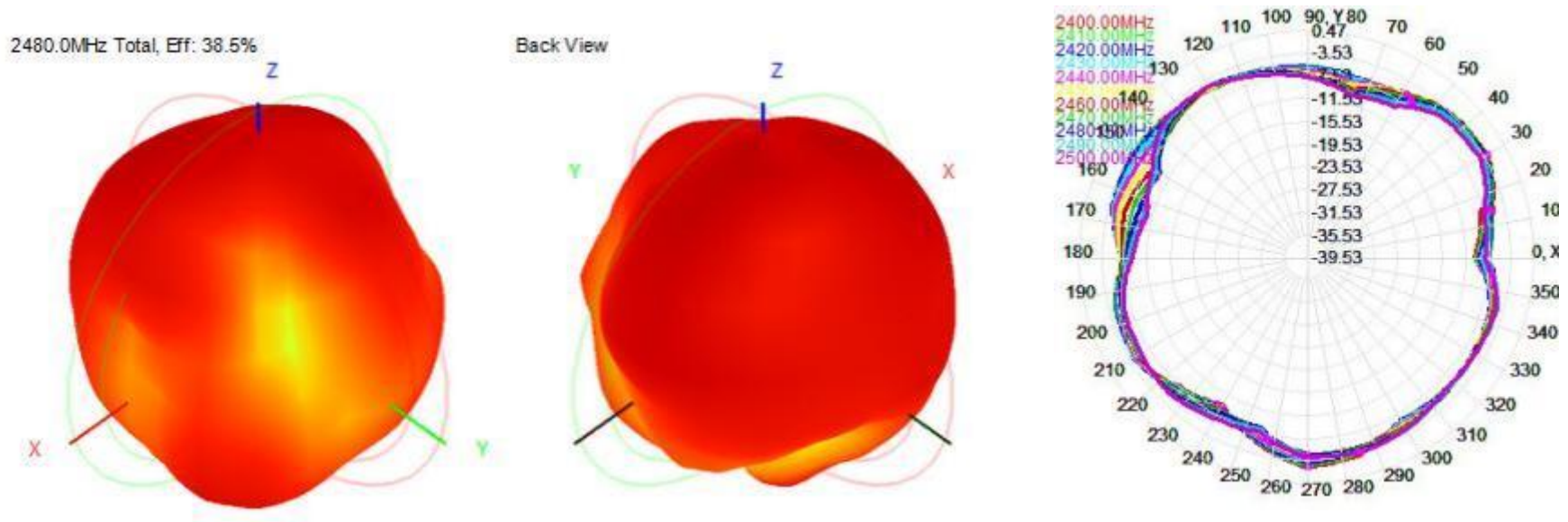
3.3 Test Result

2 2D Pattern——BTANT



3.3 Test Result

3 2D Pattern——BTANT



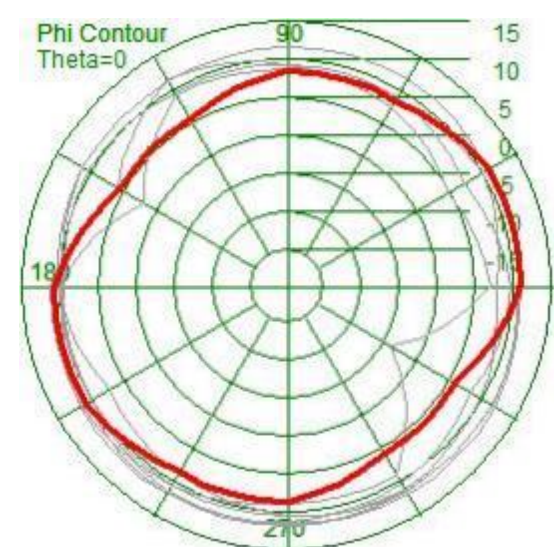
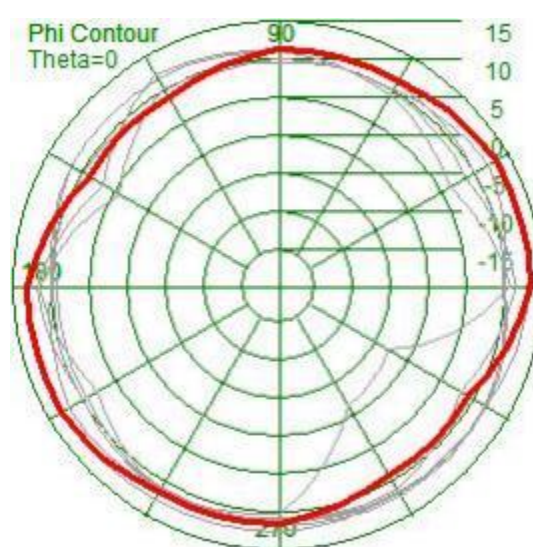
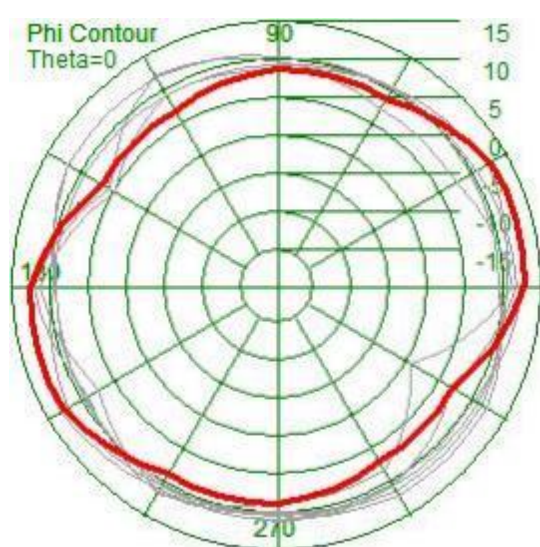
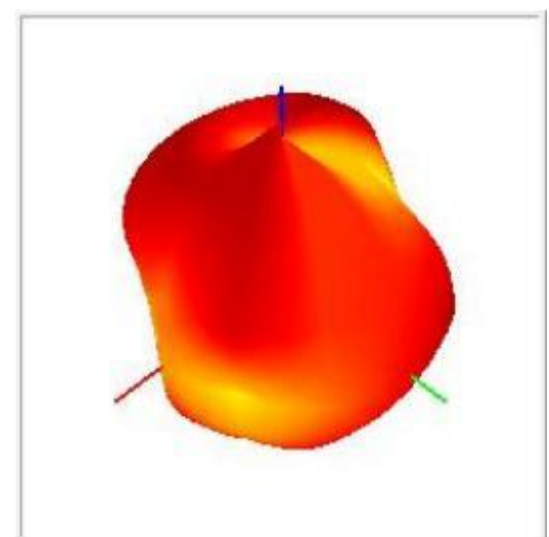
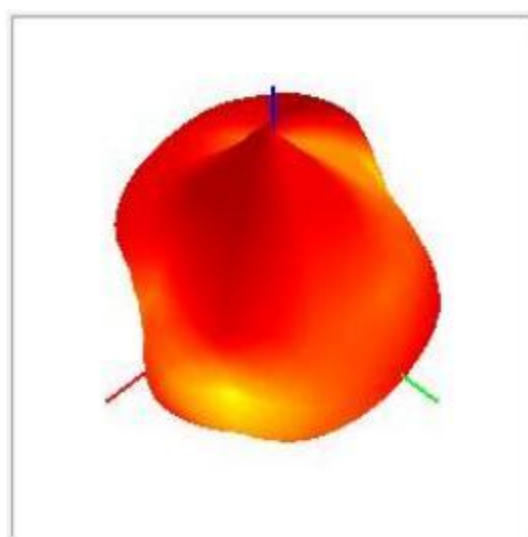
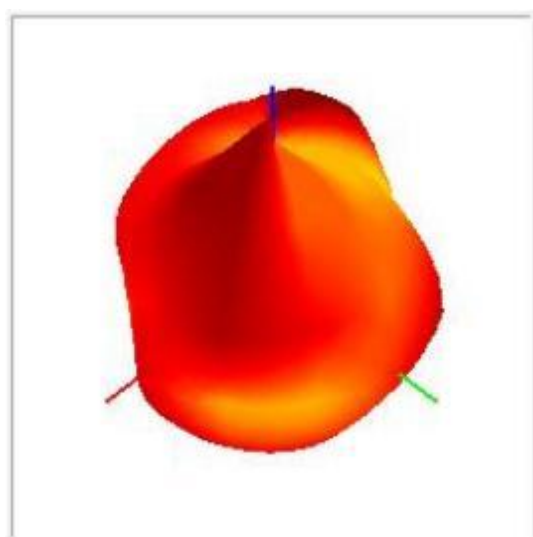
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	9.95	-90.40
	39	10.33	-90.83
	78	9.44	-90.65

4.2 Test Result

1 2D Pattern_____ **BTANT**

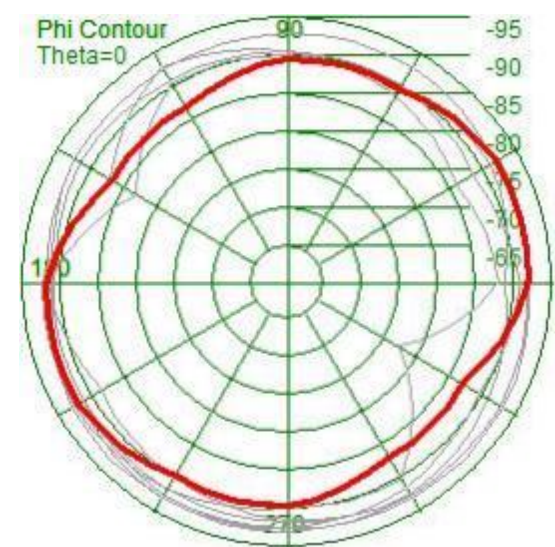
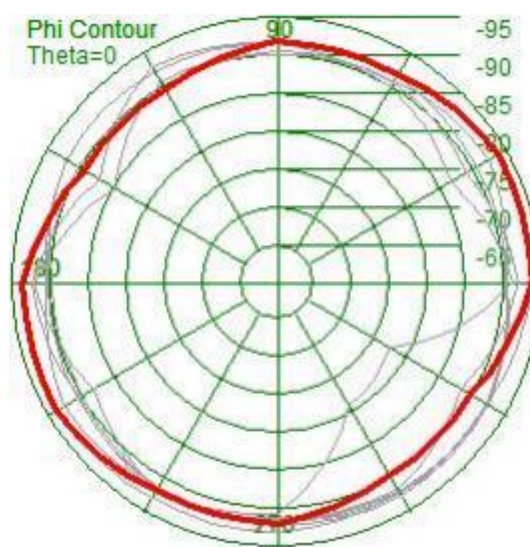
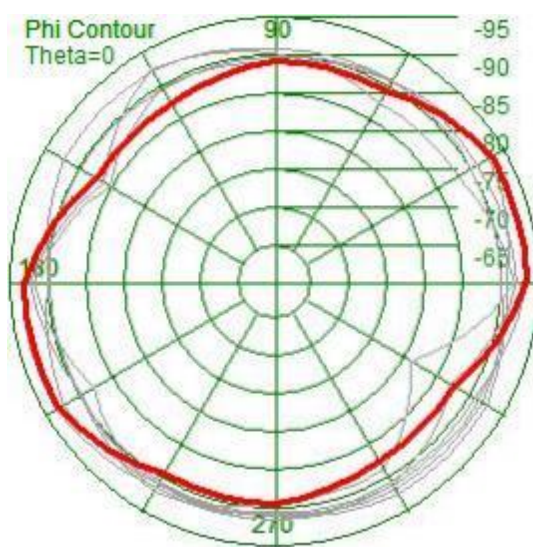
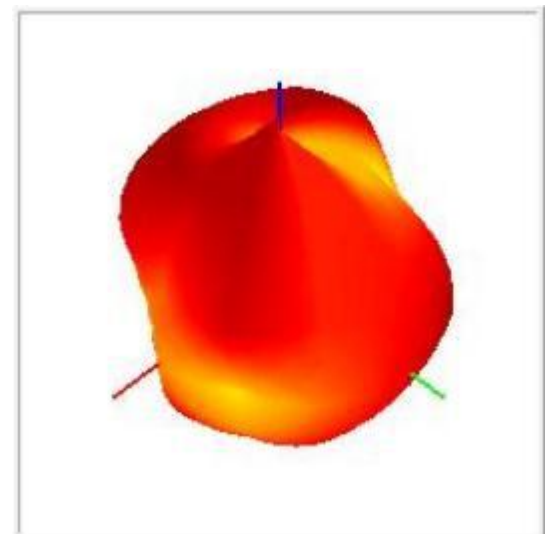
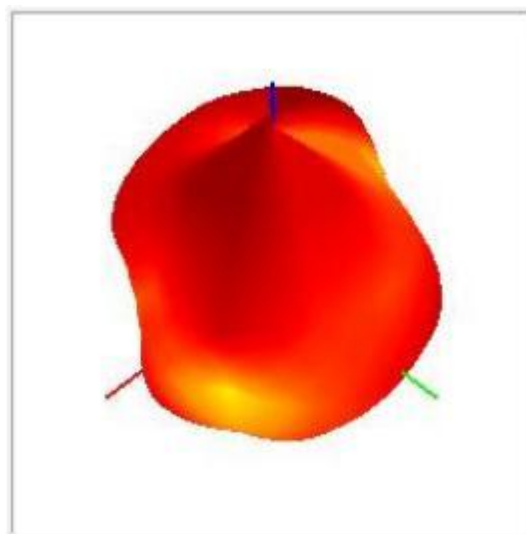
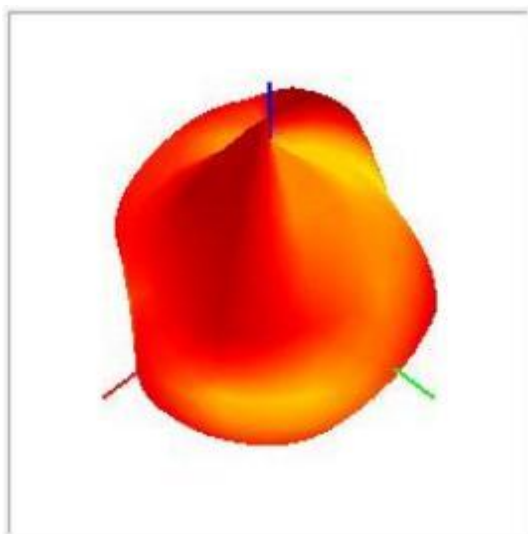
TRP



4.2 Test Result

2 2D Pattern_____BTANT

TIS



5.1 Antenna Specification

1. 天线概述 INTRODUCTION

微波多层陶瓷天线 LA 系列产品设计用于 WLAN、WiFi、蓝牙、PHS，手机多频天线, FM 等小体积 SMD 片式设计。

Microwave Multi-Layer Ceramic Antenna LA series are designed to be used in WLAN、WiFi、Bluetooth、PHS、Multiple-band Mobile phone antenna, FM, etc and compact size SMD chip design.

天线类型：2021陶瓷天线

Antenna Type: 2021 Ceramic Antenna

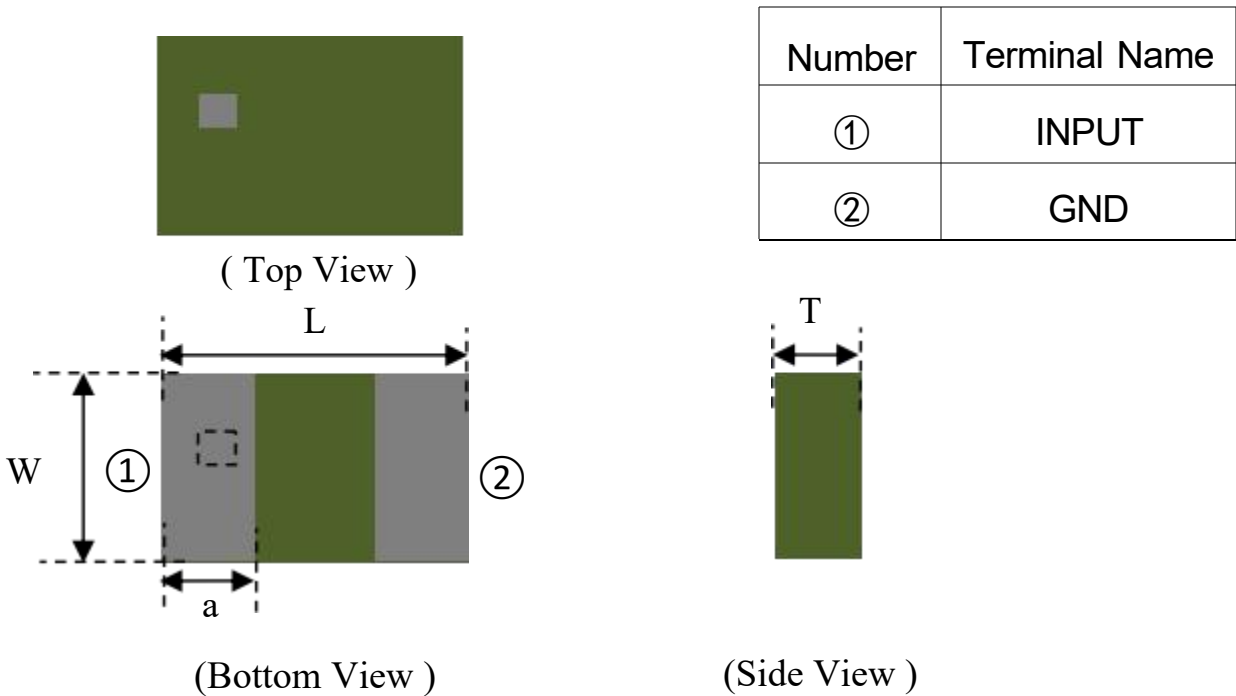
制造商：深圳市合立讯科技有限公司

Manufacturer: Shenzhen Helixun Technology Co., Ltd.

制造商地址：深圳市宝安区西乡街道铁仔路 56 号金环宇大厦 1004 室

Manufacturer Address: Room 1004, Jinhuan Yu Building, No.56 Tiezai Road, Xixiang Street, Bao'an District, Shenzhen

2. 外型尺寸及焊盘尺寸 Dimensions (Unit: mm)



Symbols	L	W	T	a
Dimensions	2.0+/-0.2	1.25+/-0.2	0.6+/-0.1	0.6+/-0.1

HELIX 合立讯

Thank you!