

产品规格书 specification

移动通信终端天线 产品设计与制造

Mobile communication terminal antenna Product design and manufacturing

产品名称: OWLNV L3 2.4G WIFI 天线antenna
PRODUCT NAME

客户名称: Shenzhen Pard Technology Co.,Ltd
CUSTOMER NAME

料号: W3106A-F8C0B-070-A
MATNR

深圳市一加一无线通讯技术有限公司

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拟定protocol	章生兵Zhang Shengbing	产品规格书 specification	版本versions	A
发文部门Issuing Department	研发部R&D		发行日期issuing date	21.10.19

1.目的purpose

对于一加一出品的移动通信终端天线产品规格、测试方法进行规范，避免因测试条件，方法的不同引起误差。Standardize the specifications and testing methods of the mobile communication terminal antenna products produced by OnePlus, to prevent errors caused by differences in testing conditions and methods.

2.产品类别和产品型号概述Overview of Product Categories and Product Models

2.1 Product Model Overview

This report mainly presents the electrical results of the antenna designed for the OWLNVL3 project. The designed frequency band of this antenna is: 2.4 GHz (for WIFI)

3.基本参数和实验设备说明Basic Parameters and Description of Experimental Equipment

3.1 基本参数basic parameter

产品电气性能指标Product electrical performance indicators	
operating frequency range	2400-2480MHz
standing-wave ratio (SWR)	2400-2480 MHz: < 1.5
antenna gain	2400-2480 MHz: 1.5dBi ± 0.5dBi
radiant efficiency	2400-2480 MHz: > 30%
impedance	50 ohm
Product Material Description	
FPC	electrolytic copper+PI
coaxial line	Weaving thread + terminals
Product Environment Description	
operating temperature	- 30℃ ~ + 85 ℃
storage temperature	- 30℃ ~ + 85 ℃

3.2 实验设备说明

List	Testing project	Equipment
1. S Parameters	1.Return loss 2. VSWR at	Network analyzer: Agilent 8753ES
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960 E5515C
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain	1. Darkroom: 7x4x3 m (3D) 2. Network analyzer : Agilent 8753ES

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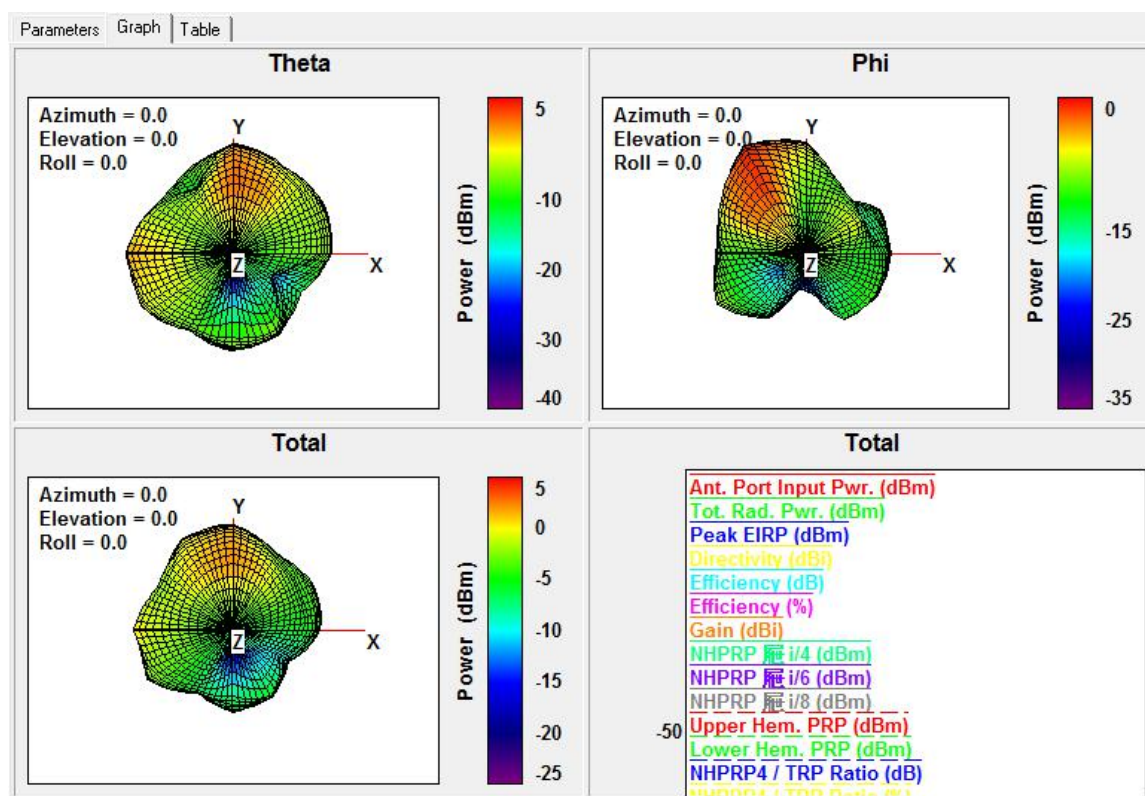
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4.天线测试数据Antenna test data

4.1 Wifi:2.4G 效率/增益 Efficiency / Gain

Fre.(Mhz)	Efficiency(%)	Gain(dBi)
2400	52.25	1.09
2410	51.41	1.08
2420	53.25	1.30
2430	55.47	1.28
2440	55.63	1.41
2450	58.47	1.50
2460	54.63	1.30
2470	53.25	1.25
2480	53.67	1.14

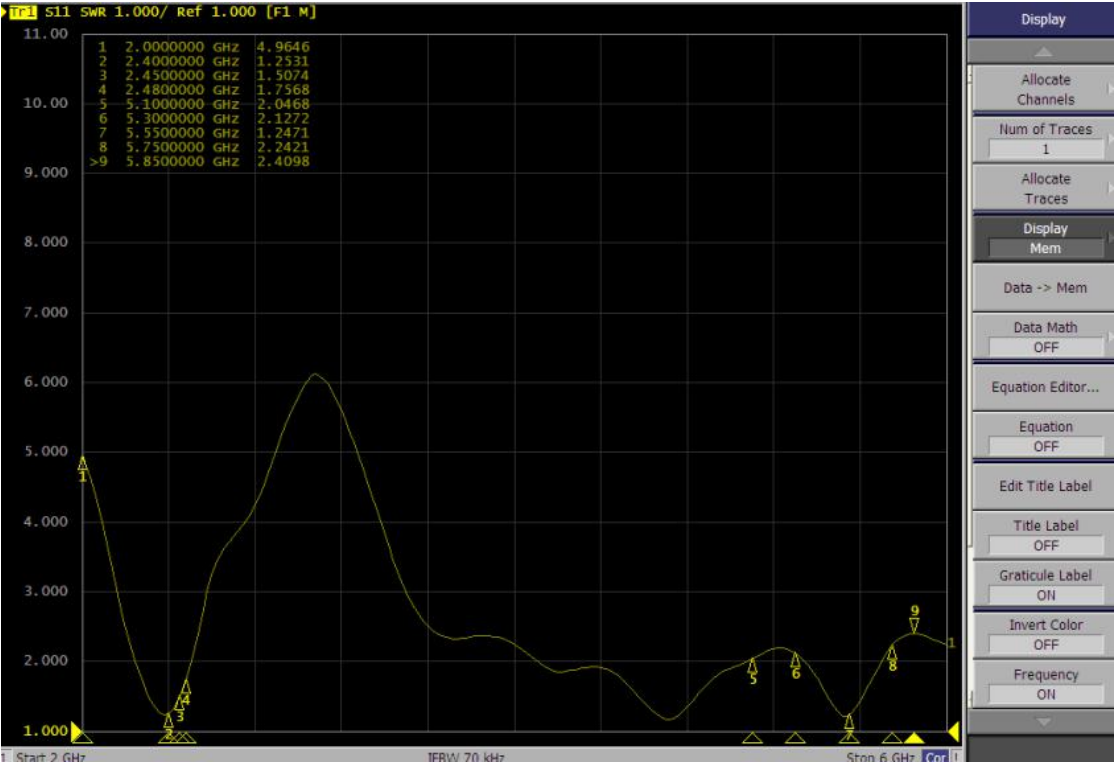
5.1 2.4G 苹果图Apple logo



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6.1 驻波比standing-wave ratio (SWR)



7.1 产品 2D 结构图和备注说明 Product 2D structure diagram and remarks explanation

