

产品规格书

Product specification

移动通信终端天线产品设计与制造

Design and manufacturing of mobile communication terminal antenna products

产品名称: OWLNV L3 2.4G WIFI 天线

PRODUCT NAME

客户名称: 普雷德Shenzhen Pard Technology Co., Ltd

CUSTOMER NAME

料号Item number: W3106A-F8C0B-070-A

深圳市一加一无线通讯技术有限公司

Shenzhen one plus one wireless communication technology Co., Ltd

1.目的objective

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 mobile communication terminal antennas produced by one in one to avoid errors caused by different testing conditions and methods.

2.产品类别和产品型号概述Overview of product categories and models

2.1 产品型号概述Product Model Overview

这份报告主要概述的是 OWLNV L3 项目所设计的天线的电气结果。此天线设计频段为：2.4G WIFI 段。This report mainly outlines the electrical results of the antenna designed for the OWLNV L3 project. This antenna is designed in the 2.4G WIFI frequency band.

3.基本参数和实验设备说明Basic parameters and experimental equipment description

3.1 基本参数Basic parameters

产品电气性能指标Product electrical performance indicators	
工作频率范围 Operating frequency range	2400-2480MHz
驻波比standing-wave ratio	2400-2480 MHz: < 1.5
天线增益Antenna gain	2400-2480 MHz: 1.5dBi ± 0.5dBi
辐射效率Radiation efficiency	2400-2480 MHz: > 30%
阻抗impedance	50 ohm
产品材料说明Product Material Description	
FPC	电解铜+PIElectrolytic copper+PI
同轴线coaxial line	编织线+端子Braided wire+terminal
产品环境说明Product Environment Description	
工作温度operation temperature	- 30℃ ~ + 85℃
储藏温度Storage temperature	- 30℃ ~ + 85℃

3.2 实验设备说明Experimental Equipment Description

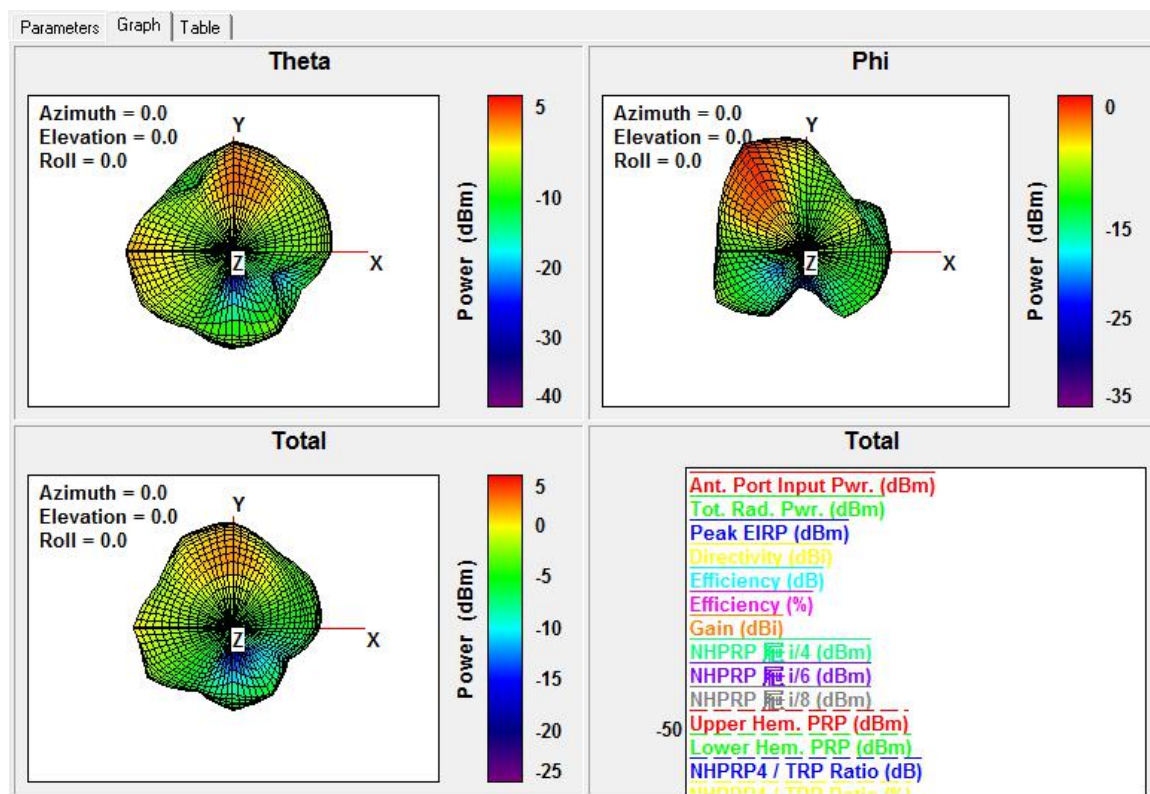
List	Testing project	Equipment
1. S Parameters	1.Return loss 2. VSWR at	Network analyzer: Agilent 8753ES
2. Coupling power test	1. Transmission power 2. Receiving sensitivity	Comprehensive tester: Agilent 8960 E5515C
3. Radiation pattern and gain	1. Radiation pattern 2. Antenna gain	1. Darkroom: 7x4x3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

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 Chart



6.1 驻波比standing-wave ratio

