# 深圳市亿圣邦科技有限公司

# 天 线 规 格 书

## Antenna specification

公　　司　　名　　称（客户填写）：深圳市艾普达科技有限公司

物　　料　　代　　码（客户填写）：

规　　格　　型　　号（客户填写）：MPC12POYS

承　　认　　日　　期（客户填写）：

供　　应　　商　　名　　称（SLK 填写）：深圳市亿圣邦科技有限公司

供　　应　　商　　名　　称（SLK 填写）：

| 承　　认　　签　　章 | | | | | |
|---|---|---|---|---|---|
| 供　应　商　承　认 | | | 深圳市艾普达科技有限公司 | | |
| 工 程 师 | 审 核 | 批 准 | 工 程 师 | 审 核 | 批 准 |
| 曾立文 | 黄 震 | 林美财 | | | |
| 盖章签署 | | | 盖章签署 | | |
| 日　　期 | 2023-06-20 | | 日　　期 | | |
| | | | 批示：　☐接受　☐有条件接受 | | |
| 备注（客户填写）： | | | | | |

供应商名称:深圳市亿圣邦科技有限公司
供应商地址:东莞市塘厦镇蛟乙塘银园街 13 号 2 楼
电　　话：0769-82553115　　传　　真：0769-82553116

# Antenna 0:  Bluetooth Antenna

## 1. Explanation of Product number :

Product Code:
(1) Customer:
APD:艾普达
(2) Project:
2216: SLK-APD-2216(Bluetooth Aantenna 2400-2500MHz)
(3) Welding Position
R:Right
(4) Cable Length:
120IV:120*0.81MM
(5)Cable Color
G: Grey

## 2. Features

*Stable and reliable in performances
*Compact size
*RoHS compliance

## 3. Applications

* B R / E D R
* Hand-held devices when B R / E D R functions are needed**4.**

## 4. Description

Holy bond’

s External antenna series are specially designed for Bluetooth (BR/EDR) applications. Based on Holy bond’s proprietary design and processes, this External antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

## 5. Electrical Specifications

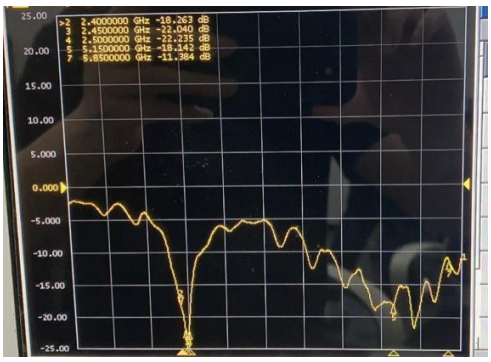
**5-1**

| Characteristics | Specifications | Unit |
|---|---|---|
| **Outline Dimensions** | **16.71*21.9*0.12** | **mm** |
| **Bandwidth(under-10dB return loss)** | **130min** | **MHz** |
| **VSWR** | **3max** | |
| **Impedance** | **50** | **Ω** |
| **Polarization** | **Linear Polarization** | |

**5-2**

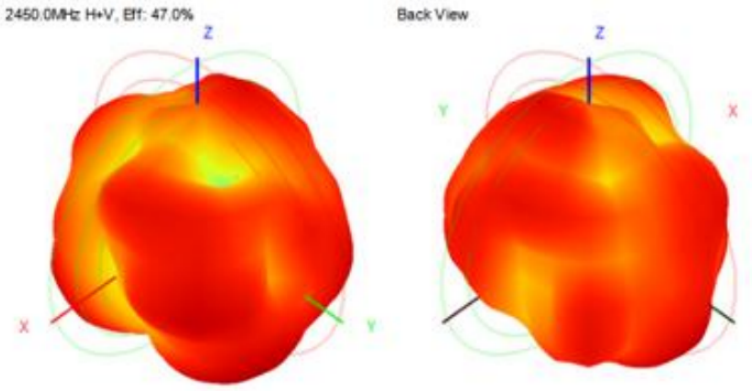
VSWR


S11



## 5-3. Bluetooth Antenna Gain/Efficiency/Radiation Pattern of 3D

| Frequency | Efficiency ( | Gain (dBi) | Efficiency (%) |
|---|---|---|---|
| 2400.0 | -3.20 | 1.79 | 47.87 |
| 2410.0 | -3.02 | 2.07 | 49.84 |
| 2420.0 | -3.25 | 2.00 | 47.29 |
| 2430.0 | -3.01 | 2.22 | 49.98 |
| 2440.0 | -3.24 | 2.38 | 47.38 |
| 2450.0 | -3.28 | 1.97 | 46.96 |
| 2460.0 | -3.51 | 1.77 | 44.62 |
| 2470.0 | -3.48 | 2.07 | 44.92 |
| 2480.0 | -3.26 | 2.53 | 47.19 |
| 2490.0 | -2.44 | 3.44 | 52.56 |
| 2500.0 | -3.37 | 2.11 | 46.08 |



# Antenna 1 WIFI Antenna

## 6. Explanation of Product number :

Product Code:
(1) Customer:
APD:艾普达
(2) Project:
2216: SLK-APD-2216
(Antenna 1: WIFI antenna 2400-2500MHz; 5150-5850MHz)
(3) Welding Position
R:Right
(4) Cable Length:
150IV:150*0.81MM
(5)Cable Color
B: Black

### 6.2. Features

*Stable and reliable in performances
*Compact size
*RoHS compliance

### 6.3. Applications

* IEEE802.11 (a/b/g/n)
* Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

## 7 . Description

Holy bond's External antenna series are specially designed for WIFI (802.11 a/b/g/n) applications. Based on Holy bond's proprietary design and processes, this External antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

## 8 . Electrical Specifications

8-1

| Characteristics | Specifications | Unit |
|---|---|---|
| **Outline Dimensions** | **16.71*21.9*0.12** | **mm** |
| **Bandwidth(under-10dB return loss)** | **130min** | **MHz** |
| **VSWR** | **3max** | |
| **Impedance** | **50** | **Ω** |
| **Polarization** | **Linear Polarization** | |

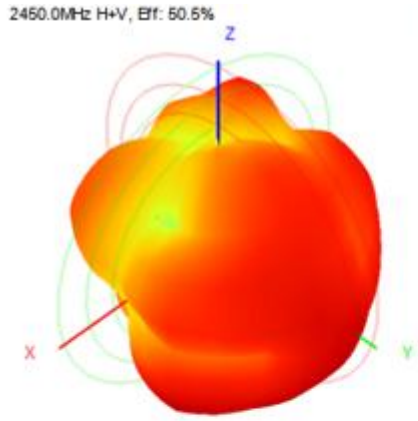
8-2

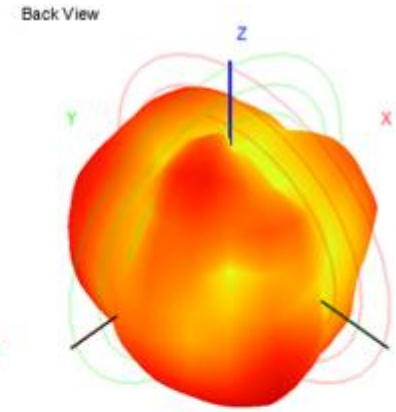
VSWR

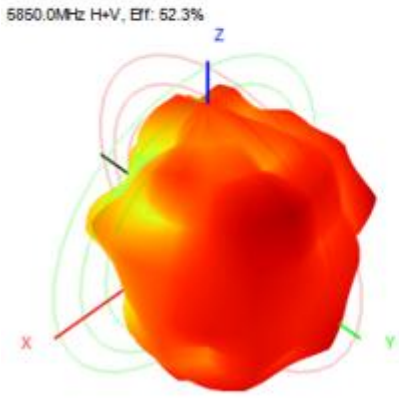

S11

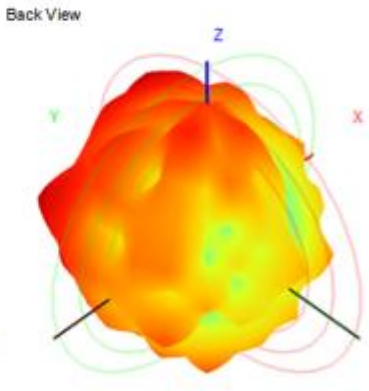
## 8-3. Antenna 1 : WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

| Frequency | Efficiency ( | Gain (dBi) | Efficiency (%) |
|---|---|---|---|
| 2400.0 | -2.91 | 2.34 | 51.21 |
| 2410.0 | -2.88 | 2.59 | 51.57 |
| 2420.0 | -3.14 | 2.65 | 48.53 |
| 2430.0 | -2.82 | 3.03 | 52.20 |
| 2440.0 | -2.86 | 3.44 | 51.77 |
| 2450.0 | -2.97 | 3.06 | 50.46 |
| 2460.0 | -3.04 | 3.33 | 49.70 |
| 2470.0 | -3.13 | 3.05 | 48.61 |
| 2480.0 | -3.07 | 3.30 | 49.28 |
| 2490.0 | -2.87 | 3.34 | 51.64 |
| 2500.0 | -3.03 | 2.66 | 49.72 |
| 5150.0 | -3.15 | 3.16 | 48.47 |
| 5350.0 | -3.02 | 4.10 | 49.93 |
| 5550.0 | -2.77 | 4.45 | 52.84 |
| 5650.0 | -2.92 | 3.87 | 51.01 |
| 5850.0 | -2.82 | 4.83 | 52.26 |



## 9 . Antenna 1 + Antenna 0 Size Picture