

# 深圳市中科联合通信技术有限公司 样品承认书

## SPECIFICATION FOR APPROVAL

公司名称 (客户填写) : 明日实业  
物料代码 (客户填写) : 3060000000114  
规格型号 (客户填写) : \_\_\_\_\_  
承认日期 (客户填写) : \_\_\_\_\_  
供应商名称 (SLK填写) : 深圳市中科联合通信技术有限公司  
供应商规格型号 (SLK填写) : WIFI: SLK-B5DB-SMA SLK-SMA-195I

### 承 认 签 章

供 应 商 承 认 (客户填写栏)			中 科 联 合		
工 程 师	审 核	批 准	工 程 师	审 核	批 准
盖章签署			盖章签署		
日 期	2020-5-13		日 期		
批示: <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受					
备注 (客户填写) :					

供应商名称: 深圳市中科联合通信技术有限公司

供应商地址: 深圳市南山区南山大道3838号设计产业园金(J)栋3层308-312

电 话: 0755-86630017

传 真: 0755-86630076

# WIFI Antenna

## 1. Explanation of Product number :

S L K - Z K - B 5 D B - S M A

1

2

3



Product Code:

(1) Customer:

明日实业

(2) Antenna Name:

B5DB: 黑色5DB (WIFI Antenna)

(3) Connector:

SMA: SMA (母针) 配套SLK-SMA-195I转接线(公针)

## 2. Features

\*Stable and reliable in performances

\*Compact size

\*RoHS compliance

## 3. Applications

\* IEEE802.11 (a/b/g/n)

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

## 4. Description

Holy bond's External antenna series are specially designed for WIFI (802.11a/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.

## 5. Electrical Specifications

### 5-1

主要技术指标		Main technical specifications	
频率范围 (GHZ)	2.4-2.5+5.15-5.85	Frequency Range (GHZ)	2.4-2.5+5.15-5.85
特性阻抗( $\Omega$ )	50	Impedance( $\Omega$ )	50
增益(dBi)	2 $\pm$ 0.5	Gain(dBi)	2 $\pm$ 0.5
输出电压 驻波比	$\leq$ 1.92	VSWR	$\leq$ 1.92
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	SMA 母针	Connector Type	SMA Female needle
物理性能		Physical Properties	
天线外套材料	TPEE	Antenna cover	TPEE
工作温度	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C
保存温度	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

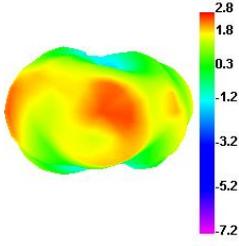
## 5-2.VSWR



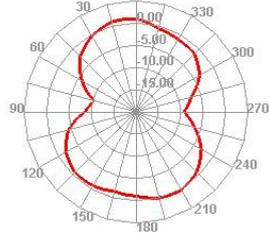
## 5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency(MHz)	Efficiency (%)	Average Gain(dB)	Peak GAIN (dBi)
2400	72.71	-1.38	5.65
2410	71.28	-1.47	5.66
2420	70.68	-1.51	5.66
2430	69.24	-1.6	5.64
2440	72.43	-1.4	5.78
2450	73.16	-1.36	5.8
2460	69.73	-1.57	5.48
2470	70.63	-1.51	5.51
2480	71.34	-1.47	5.43
2490	73.44	-1.34	5.56
2500	75.63	-1.21	5.85
5150	51.61	-2.87	3.8
5250	58.87	-2.3	4.11
5350	58.43	-2.33	5.24
5470	59.13	-2.28	5.51
5550	69.94	-1.55	5.81
5600	67.43	-1.71	5.49
5750	62.06	-2.07	4.81
5850	61.8	-2.09	3.59

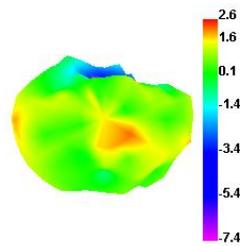
2450.000MHz



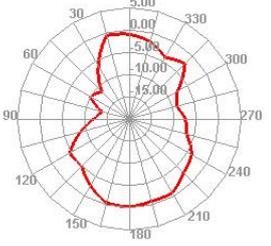
2450.000MHz H



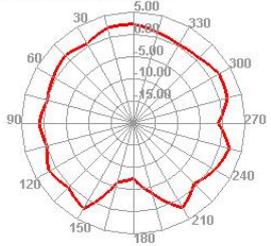
5750.000MHz



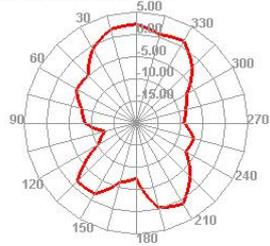
5750.000MHz H



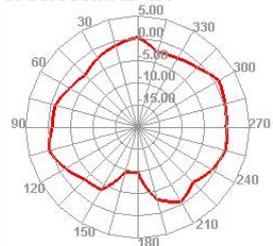
2450.000MHz E1



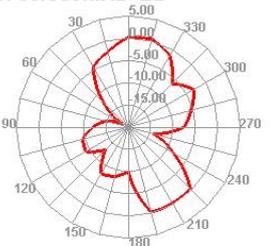
2450.000MHz E2



5750.000MHz E1

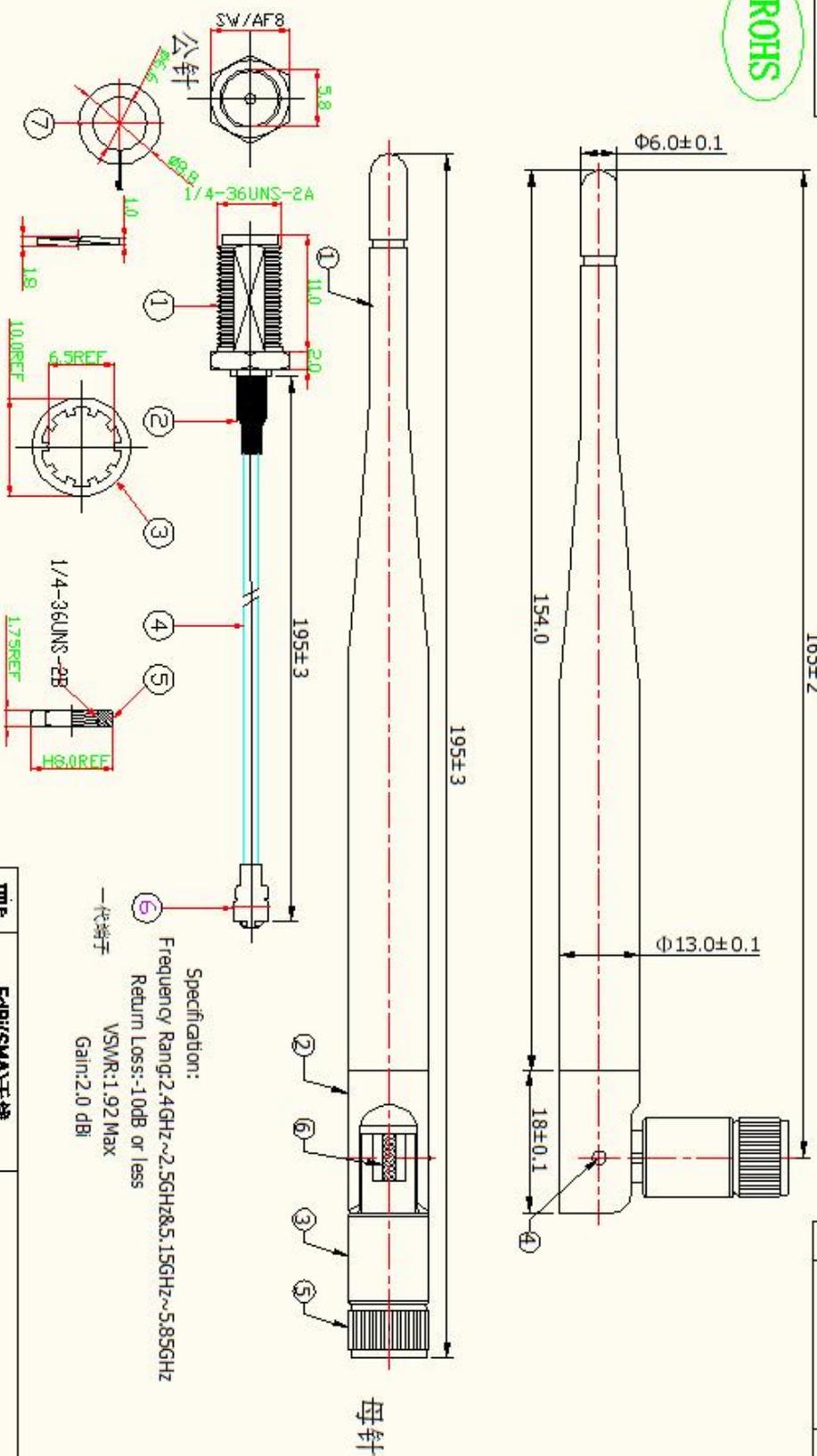


5750.000MHz E2



# 6. Antenna Dimensions (unit: mm)

成品图



Specification:  
 Frequency Range: 2.4GHz~2.5GHz & 5.15GHz~5.85GHz  
 Return Loss: -10dB or less  
 VSWR: 1.92 Max  
 Gain: 2.0 dBi

6	Cable	RG-178 Cable, Transparency Brown, 50Ω	1	
5	Connector	SMA Straight Plug Reverse for RG-178	1	塑胶外壳螺母
4	Rivet	PRT+PC, Color: Black	2	
3	Bottom Base	PRT+PC, Color: Black	1	
2	Upper Base	PRT+PC, Color: Black	1	
1	Antenna Cap	TPEE, Color: Black	1	

TITLE	SMA(SMA)天线
PK#	
CUSTOMER	
DRAW NO.	
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED	
一般公差	
TOLERANCE	

APPROVED	
CHECKED	
DRAWN	
SHEET 1/1	SCALE 1:1
UNIT: mm	REV: 0

REV.	修订内容	修订日期
A	新展发台	2020/05/15