

# Shenzhen Yishengbang Technology Co., LTD

## 样品承认书

### SPECIFICATION FOR APPROVAL

公司名称 (客户填写) : \_\_\_\_\_  
物料代 (客户填写) : \_\_\_\_\_  
规格型号 (客户填写) : NJ10172  
承认日期 (客户填写) : \_\_\_\_\_

供应商型号 (SLK 填写) : WIFI 1:SLK-NSD-2917A9-L-320IV-B  
WIFI 2:SLK-NSD-2516A9-R-500IV-G

### 承认签章

#### 供应商承认

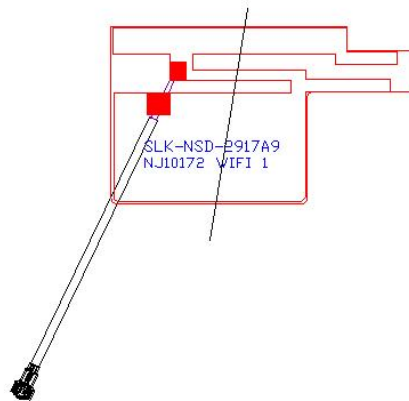
工程师	审核	批准	工程师	审核	批准
范新竹	黄震	林美财			
盖章签署			盖章签署		
日期	2023-11-09		日期		
批示: <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受					
备注 (客户填写) :					

Manufacturer name: Shenzhen Yishengbang Technology Co., LTD

Manufacturer Address: 101, Building C, Qianwan Hard Science and Technology Industrial Park,  
Nanchang Community, Xixiang Street, Baoan District, Shenzhen

# WIFI 1

## 1. Explanation of Product number :



Product Code:

- (1) Customer: 纳斯达克
- (2) Antenna Name: WIFI (WIFI Antenna)
- (3) Connector: 1.13 Black low-loss cable, total length 320mm, 4 generation terminals

## 2. Features

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

## 3. Applications

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

## 4. Description

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

# 5. Electrical Specifications

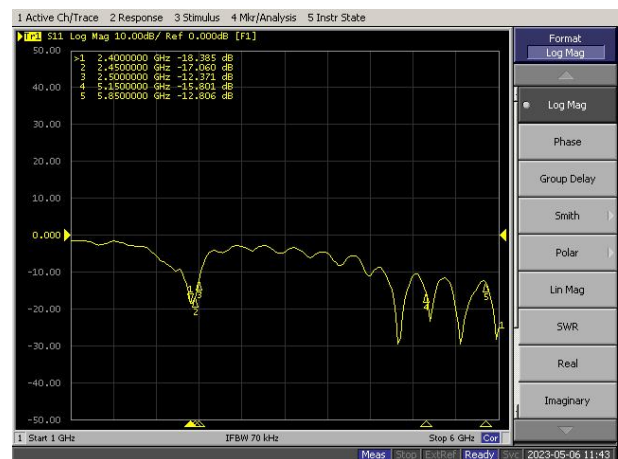
## 5-1

Characteristics	Specifications	Unit
Outline Dimensions	29.3X17x0.12	mm
Center Frequency	2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	

## 5-2.

VSWR

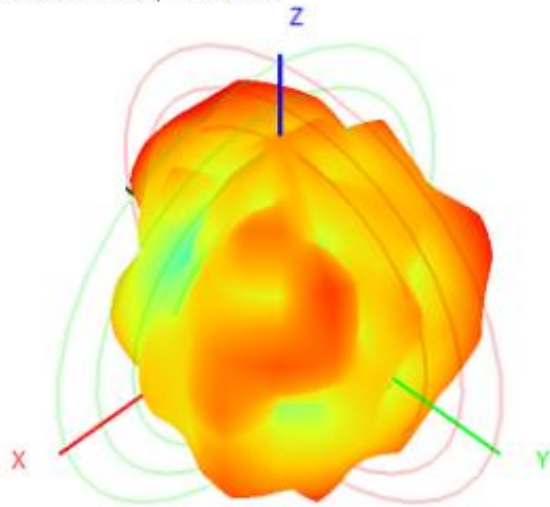
S11



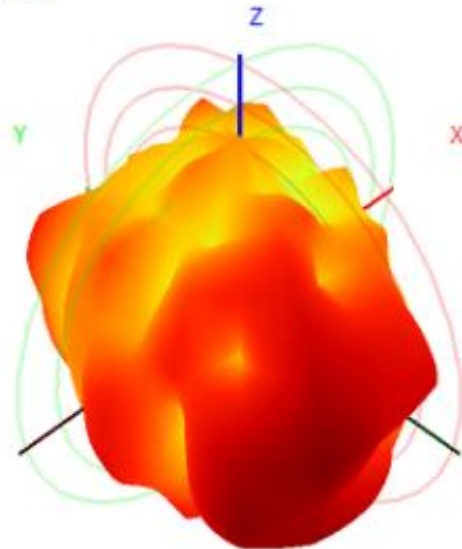
### 5-3.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.28	-3.37	-3.55	-3.65	-3.76	-3.59	-3.25	-3.28	-3.08	-3.08	-3.08	-3.71	-3.20	-3.41	-3.15	-3.53
Gain (dBi)	1.06	1.15	1.21	1.39	1.56	1.93	2.40	2.43	2.42	2.59	2.59	1.07	1.51	1.08	1.65	2.67
Efficiency (%)	46.96	45.93	44.10	43.05	42.05	43.72	47.25	46.99	49.19	49.14	49.19	42.55	47.82	45.52	48.38	44.35

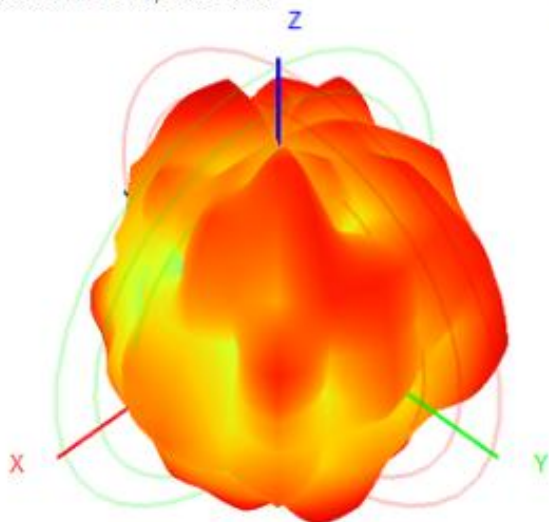
2450.0MHz H+V, Eff: 43.7%



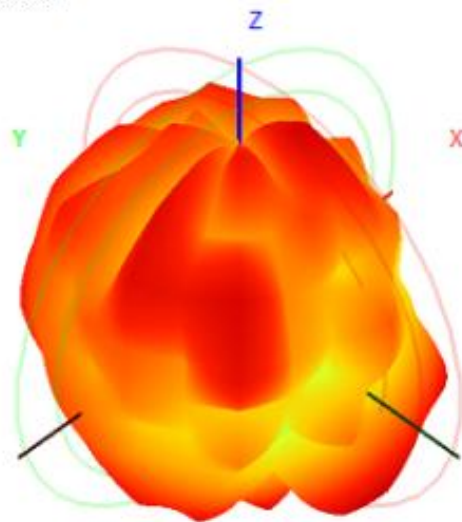
Back View



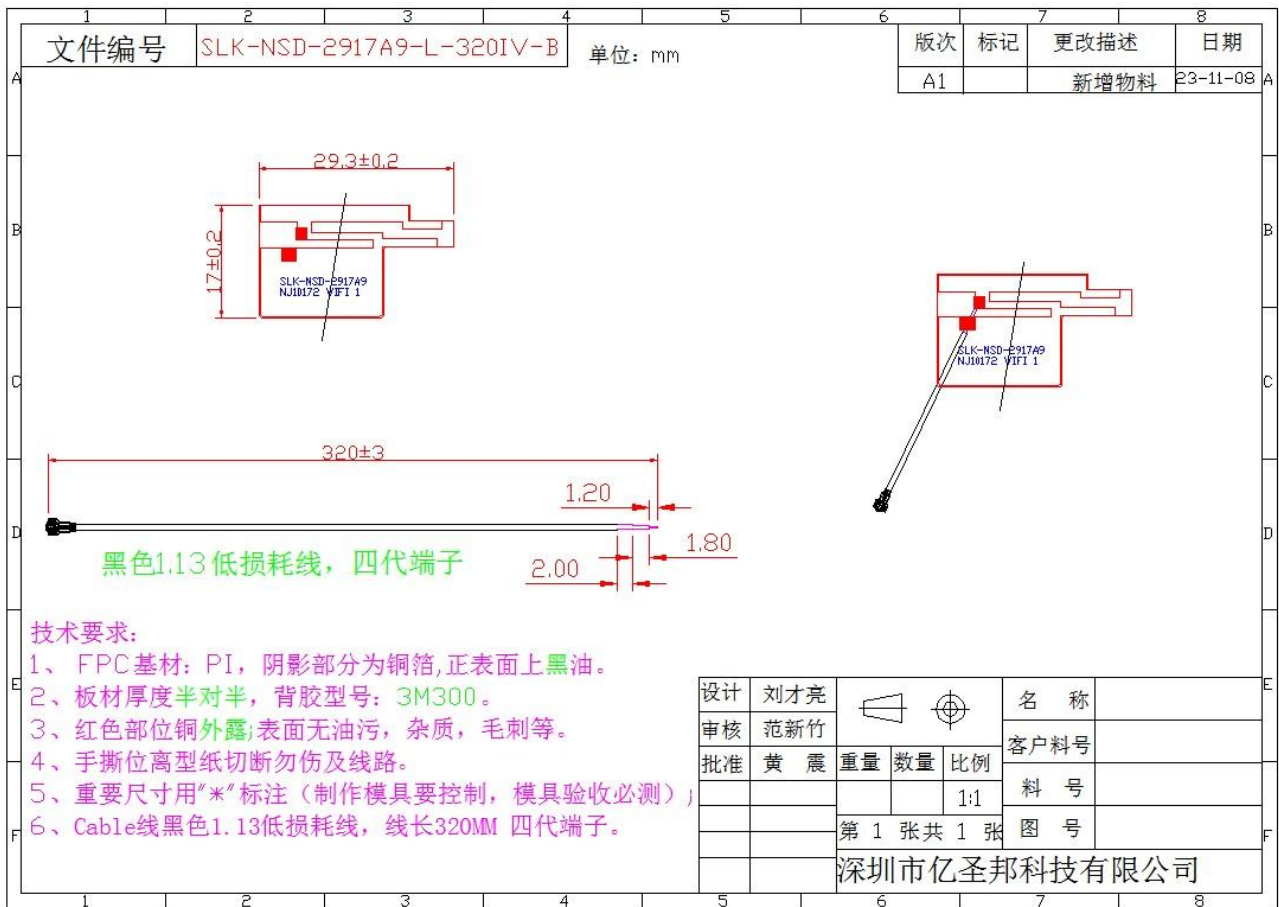
5850.0MHz H+V, Eff: 44.3%



Back View



## 6. Antenna Dimensions (unit: mm)



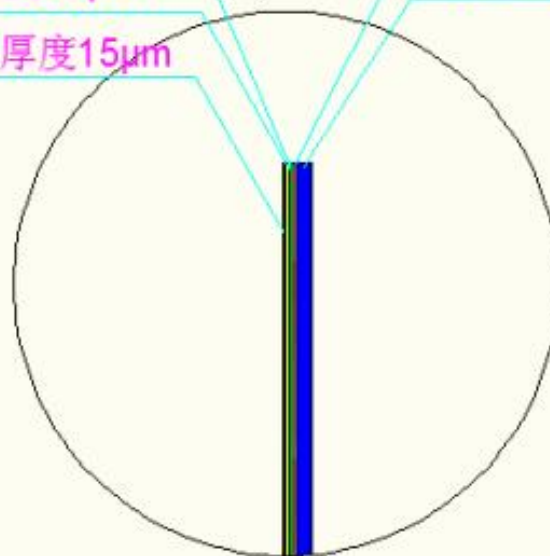
绿色: PI基材, 厚度25 μm

红色: 3M300胶, 厚度50 μm

黄色: 覆铜, 厚度35 μm

蓝色: 离型纸, 厚度100 μm

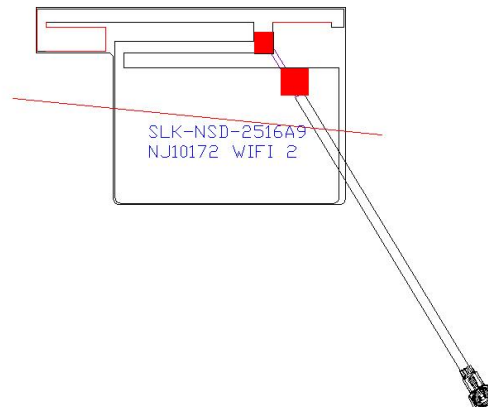
紫红色: 黑油, 厚度15 μm



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# WIFI 2

## 1. Explanation of Product number :



Product Code:

- (1) Customer: 纳斯达克
- (2) Antenna Name: WIFI (WIFI Antenna)
- (3) Connector: 1.13Gray low loss cable, total length 500mm, 4 generation terminals

## 2. Features

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

## 3. Applications

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

## 4. Description

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

## 5. Electrical Specifications

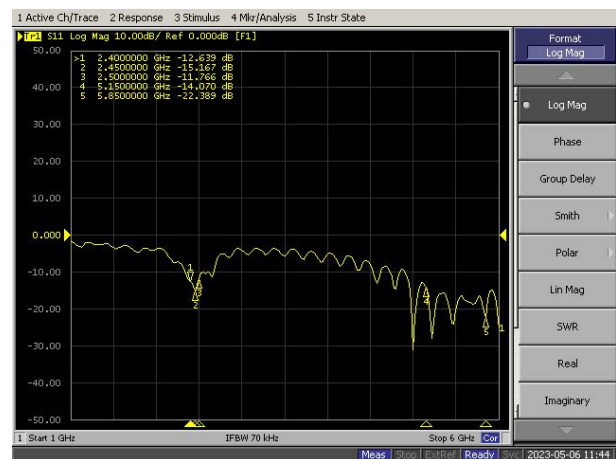
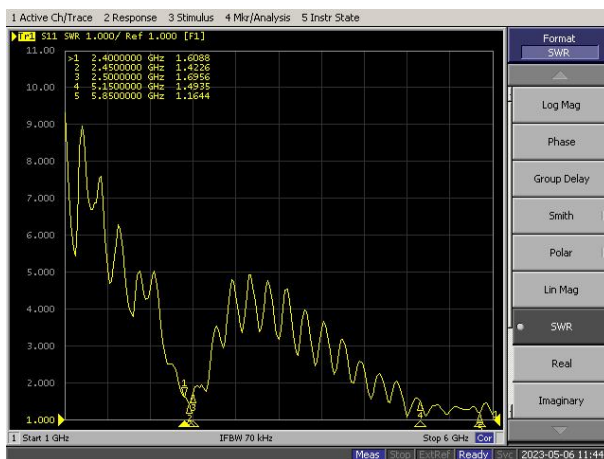
### 5-1

Characteristics	Specifications	Unit
Outline Dimensions	25.43X16.19x0.12	mm
Center Frequency	2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	

### 5-2.

VSWR

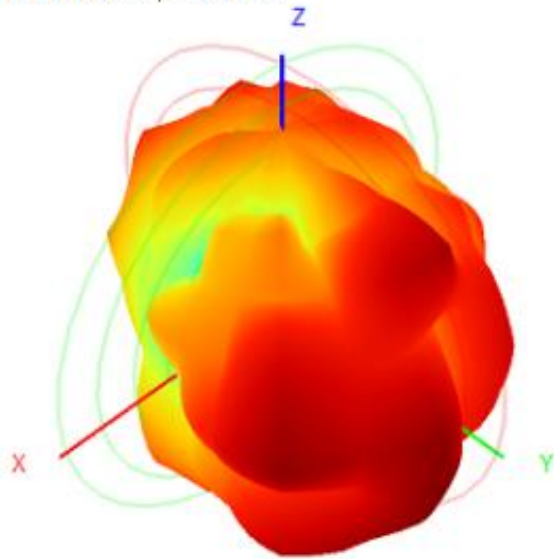
S11



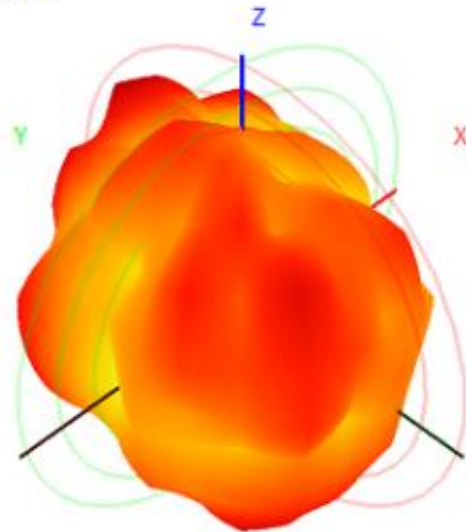
### 5-3.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.80	-3.74	-3.79	-3.62	-3.69	-3.82	-4.02	-3.98	-3.75	-3.74	-3.86	-3.89	-3.49	-3.49	-3.60	-3.85
Gain (dBi)	1.22	1.30	1.39	1.75	1.81	2.26	2.14	2.32	2.38	2.21	2.00	0.29	2.50	2.56	2.85	1.65
Efficiency (%)	41.59	42.25	41.76	43.44	42.68	41.47	39.61	39.94	42.11	42.22	41.08	40.74	44.68	44.74	43.59	41.14

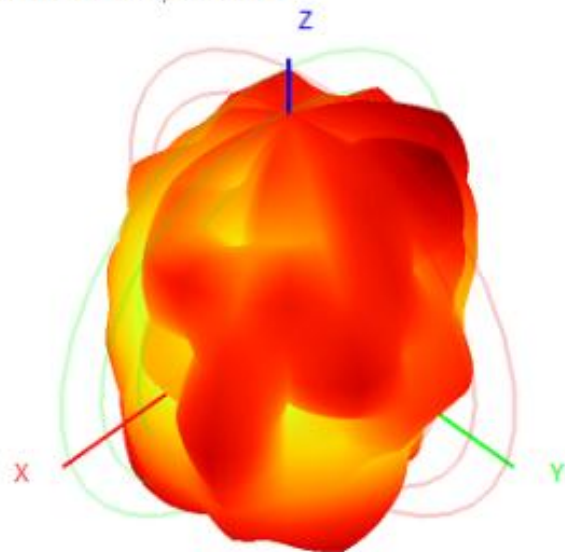
2450.0MHz H+V, Eff: 41.5%



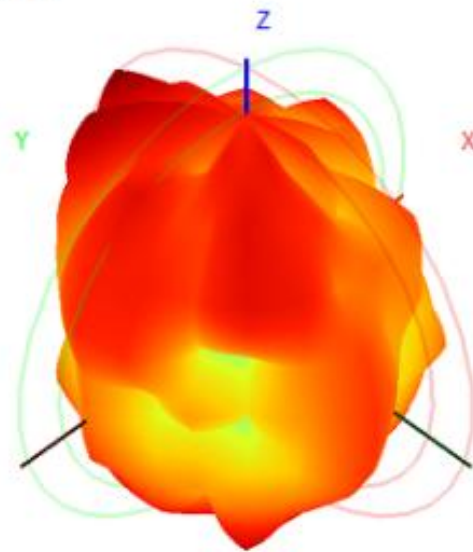
Back View



5850.0MHz H+V, Eff: 41.1%

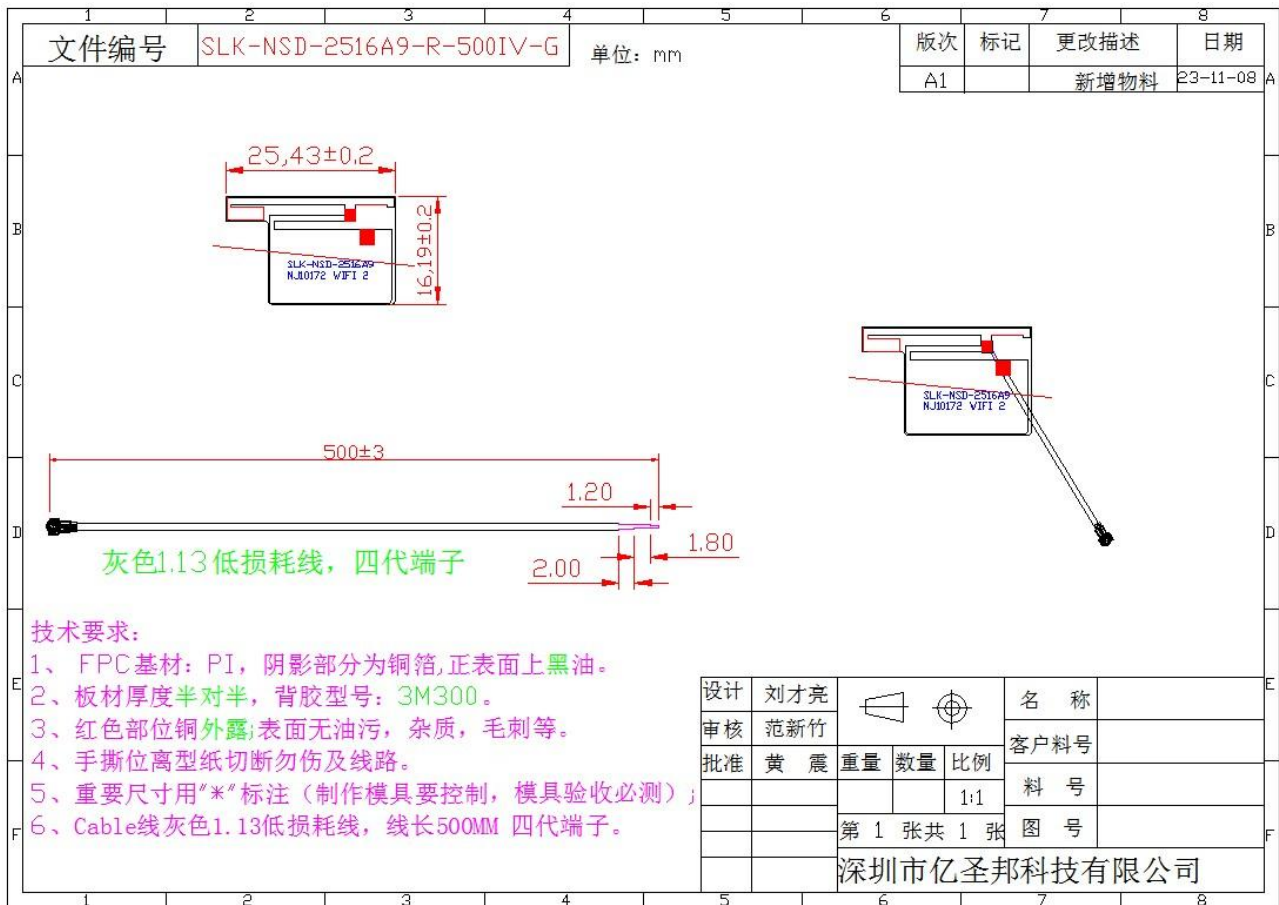


Back View





## 6. Antenna Dimensions (unit: mm)



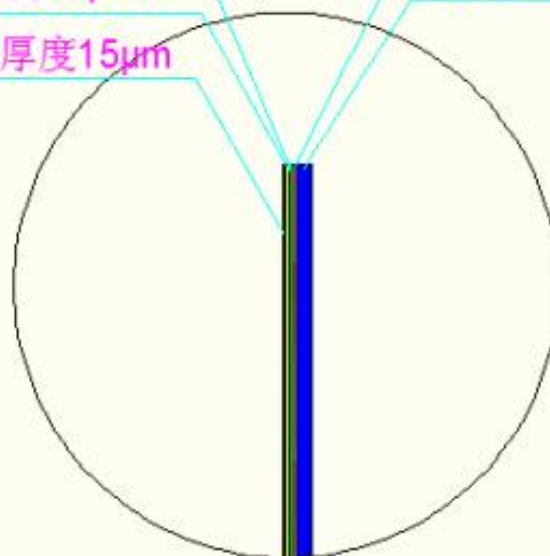
绿色: PI基材, 厚度25 μm

红色: 3M300胶, 厚度50 μm

黄色: 覆铜, 厚度35 μm

蓝色: 离型纸, 厚度100 μm

紫红色: 黑油, 厚度15 μm



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## 7. Antenna Picture



因走线较为紧凑 建议模块上方加压片

