

Shenzhen Yi Sheng Bang technology Co., LTD

样品承认书

SPECIFICATION FOR APPROVAL

公司名称 (客户填写) : _____

物料代号 (客户填写) : NJ20133-1

规格型期 (客户填写) : _____

承认日 _____

供应商名称 (SLK 填写) : Shenzhen Yi Sheng Bang technology Co., LTD

供应商名称 (SLK 填写) : WIFI+GPS:SLK-SMD-2720C1-R-25111-G

4GMAIN:SLK-NSD-6212A1-L-113111-B 4G AUX:SLK-NSD-3004-L-33111-B

承 认 签 章

供 应 商 承 认 (SLK 填写栏)

深圳市纳斯达工贸有限公司

工 程 师

审 核

批 准

工 程 师

审 核

批 准

陈仕联

黄震

林美财

盖章签署

盖章签署

日 期

2023-09-21

日 期

批示: 接受 有条件接受

备注 (客户填写) :

Shenzhen Yi Sheng Bang technology Co., LTD

Workshop 2, No. 5 Yinyuan Street, Jiaoyi Tang, Tangxia Town, Dongguan City

电 话: 0755-29470882

传 真: 0755-29163512

WIFI+GPS Antenna (2720C1)

1. Explanation of Product number :

S L K - N S D - 2 7 2 0 C 1 - R - 2 5 I I I - G

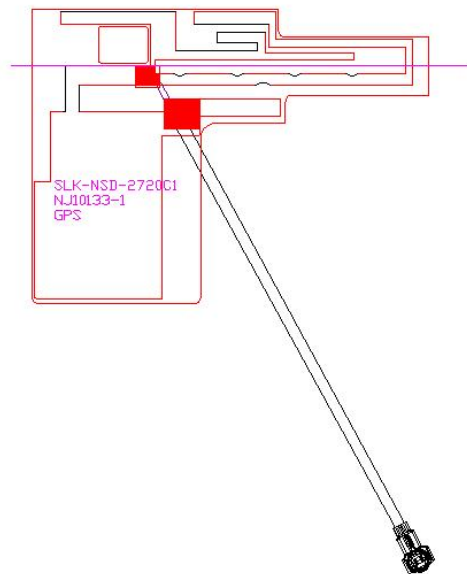
1

2

3

4

5



Product Code:

(1) Customer:

NSD:纳斯达克

(2) Project:

2720C1: SLK-2720C1(WIFI+GPS antenna)

(3) Welding Position

R:Right

(4) Cable Length:

25III: 25*0.81MM三代端子

(5)Cable Color

G: Gray

2. Features

*Stable and reliable in performances

*Compact size

*RoHS compliance

3. Applications

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

4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11 a/b/g/n) GPS 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

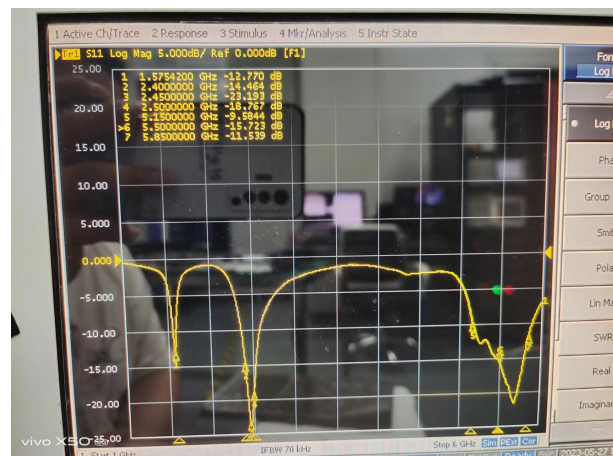
Characteristics	Specifications	Unit
Outline Dimensions	27.74x 20.62x 0.12	mm
Center Frequency	1.575+2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	
	50	Ω
Polarization	Linear Polarization	

5-2.

VSWR

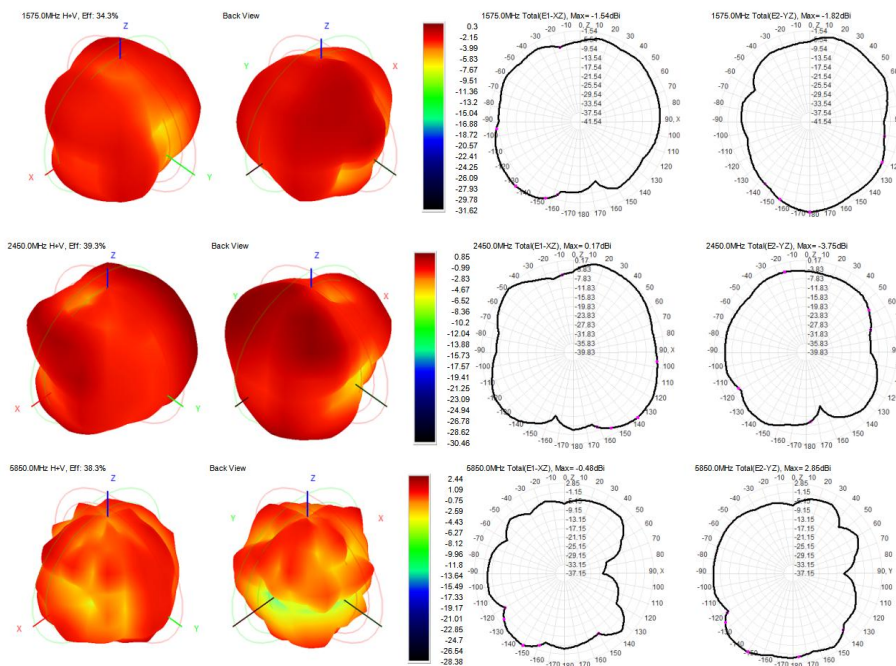


S11

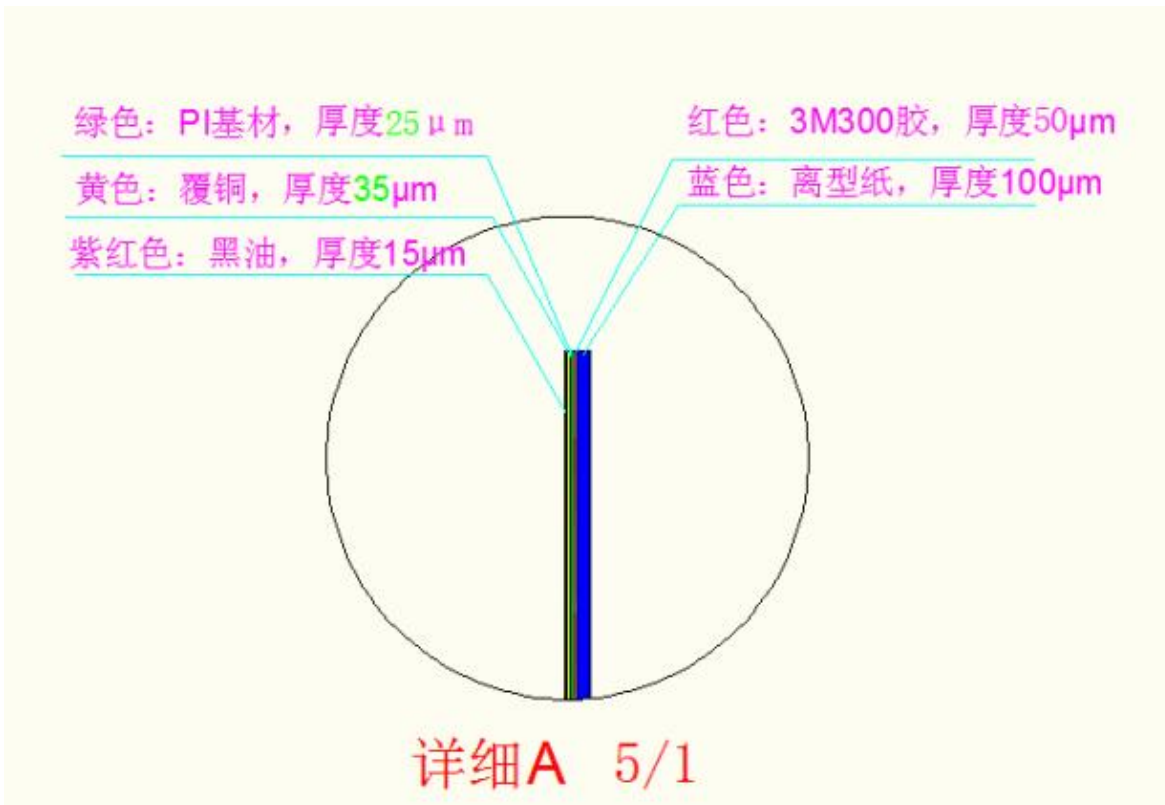
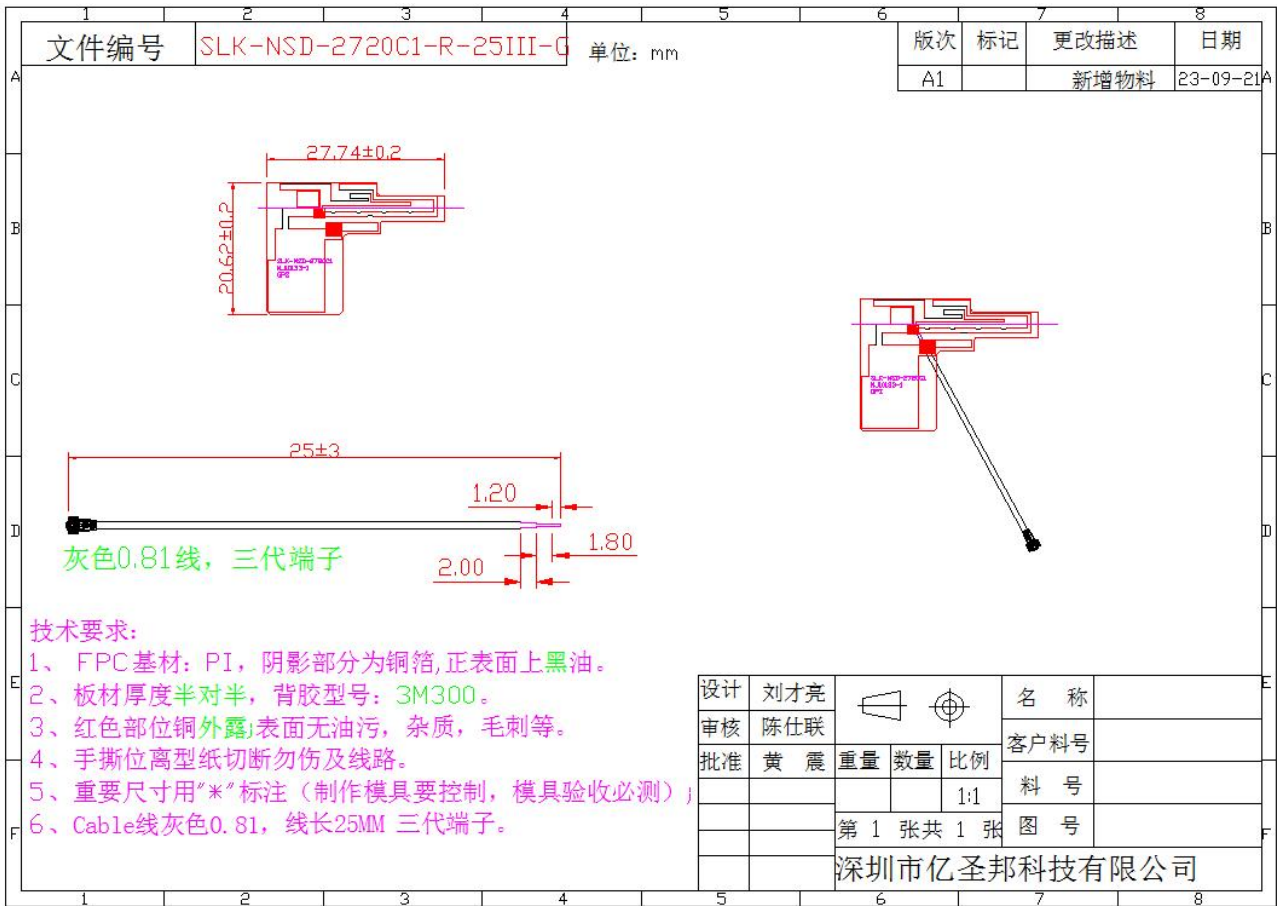


5-3.WIFI +GPS Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-4.65	0.16	34.25
1575.0	-4.77	0.33	33.33
1580.0	-4.53	0.19	35.22
2400.0	-4.18	0.89	38.23
2410.0	-4.04	1.19	39.44
2420.0	-4.09	1.13	39.01
2433.0	-4.36	1.12	36.65
2440.0	-3.99	1.27	39.86
2450.0	-4.05	0.85	39.34
2460.0	-3.96	1.16	40.15
2470.0	-4.26	1.13	37.51
2480.0	-4.36	0.74	36.64
2490.0	-4.24	1.02	37.64
2500.0	-4.19	0.97	38.09
5150.0	-4.94	2.75	32.03
5250.0	-4.72	2.07	33.74
5350.0	-4.86	2.61	32.69
5550.0	-4.66	2.72	34.21
5750.0	-4.53	2.51	35.23
5850.0	-4.17	2.44	38.31



6. Antenna Dimensions (unit: mm)



4G MAIN Antenna (6212A1)

1. Explanation of Product number :

S L K - N S D - 6 2 1 2 A 1 - L - 1 1 3 I I I - B

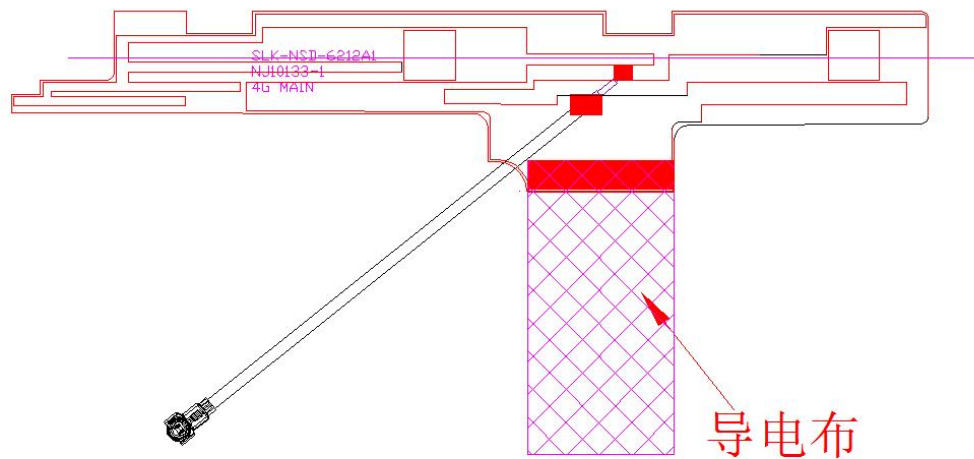
1

2

3

4

5



Product Code:

(1) Customer:

NSD:纳斯达克

(2) Project:

6212A1: SLK-6212A1 (4G MAIN antenna)

(3) Welding Position

L:Left

(4) Cable Length:

113III: 113*0.81MM三代端子

(5)Cable Color

B: Black

2. Features

*Stable and reliable in performances

*Compact size

*RoHS compliance

3. Description

Holy bond's FPC antenna series are specially designed for 4G 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.

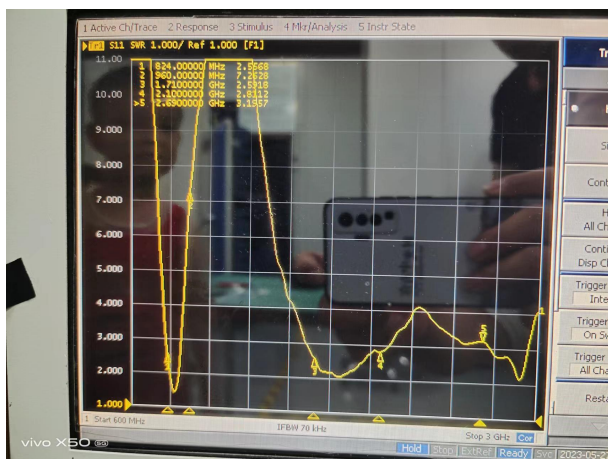
4. Electrical Specifications

4-1

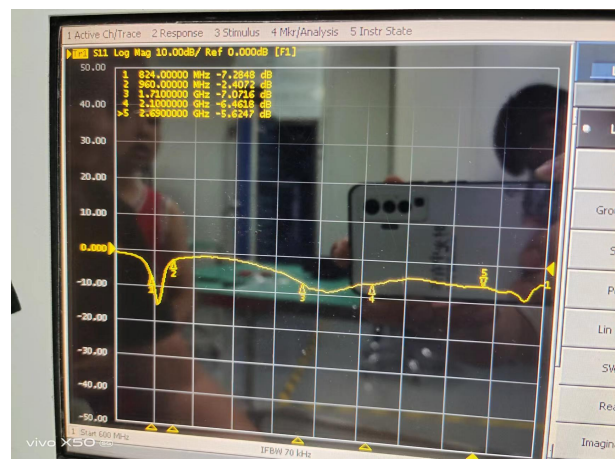
Characteristics	Specifications	Unit
Outline Dimensions	62.4x12.27x 0.12	mm
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	5max	
Impedance	50	Ω
Polarization	Linear Polarization	

4-2

VSWR



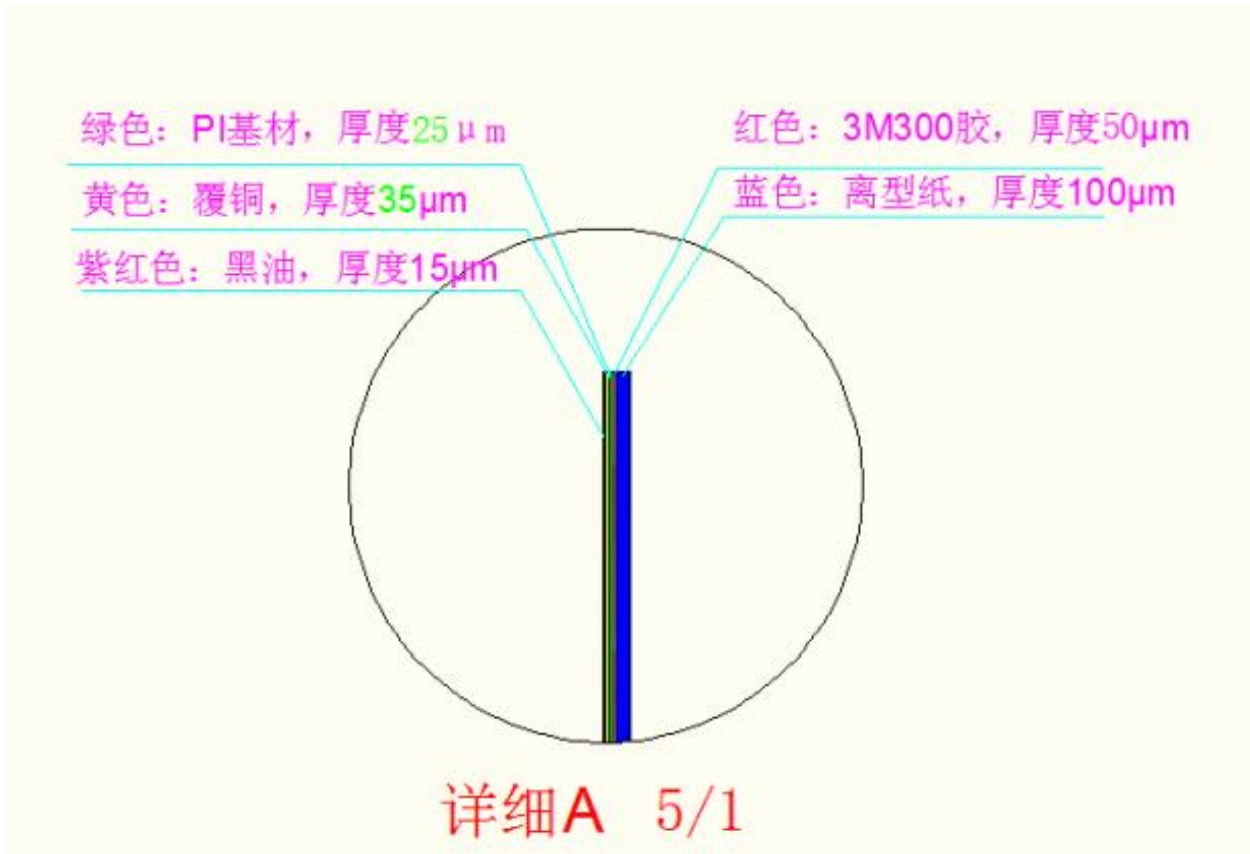
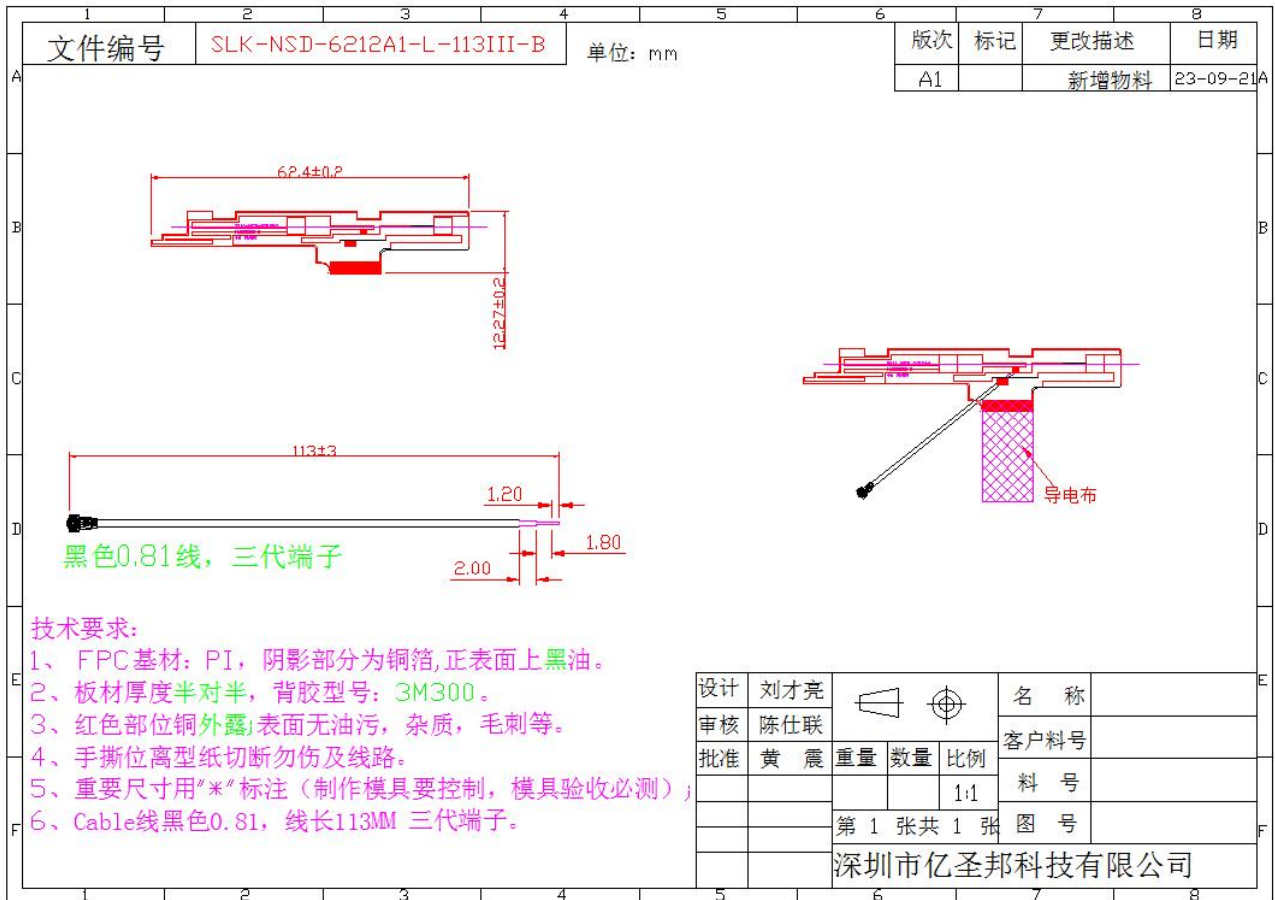
S11



4-3. 2G/3G/4G Antenna TRP/TIS

2G 频段	LTE-L	LTE-M	LTE-R	TIS
GSM850	26.06	25.56	25.02	-101.62
GSM900	26.32	25.84	25.49	-101.84
GSM1800	24.09	24.27	24.39	-102.14
GSM1900	24.19	24.07	23.92	-102.33
3G 频段	LTE-L	LTE-M	LTE-R	TIS
WCDMA-B2	17.23	17.79	18.46	-103.22
WCDMA-B5	16.19	16.02	16.07	-102.58
4G 频段	LTE-L	LTE-M	LTE-R	TIS
LTE-2	17.19	18.05	18.69	-91.45
LTE-4	18.96	18.64	18.99	-90.78
LTE-5	16.73	16.56	16.32	-88.24
LTE-7	15.75	16.08	16.13	-90.35
LTE-12	13.09	14.41	14.62	-88.57

5. Antenna Dimensions (unit: mm)

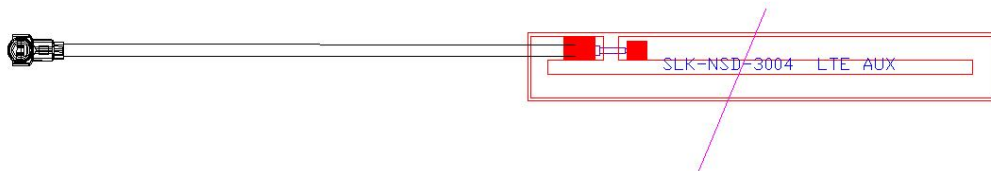


4G AUX Antenna (3004)

1. Explanation of Product number:

S L K - N S D - 3 0 0 4 - L - 3 3 I I I - B

1 2 3 4 5



Product Code:

(1) Customer:

NSD:纳斯达克

(2) Project:

3004: SLK-3004 (4G AUX antenna)

(3) Welding Position

L:Left

(4) Cable Length:

33III: 33*0.81MM三代端子

(5)Cable Color

B: Black

2. Features

*Stable and reliable in performances

*Compact size

*RoHS compliance

3. Description

Holy bond's FPC antenna series are specially designed for 4G 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.

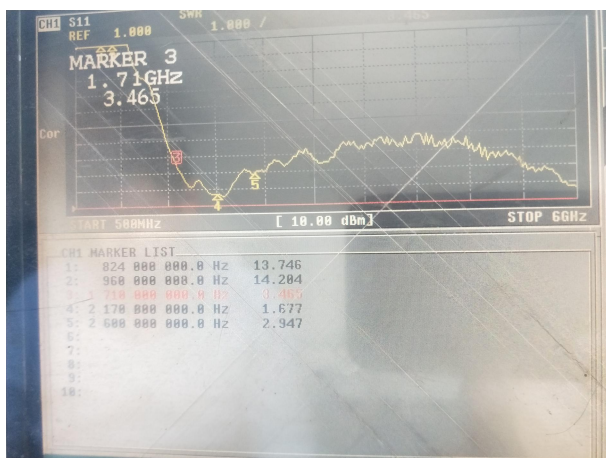
4. Electrical Specifications

4-1

Characteristics	Specifications	Unit
Outline Dimensions	33x4.3x 0.12	mm
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	5max	
Impedance	50	Ω
Polarization	Linear Polarization	

4-2

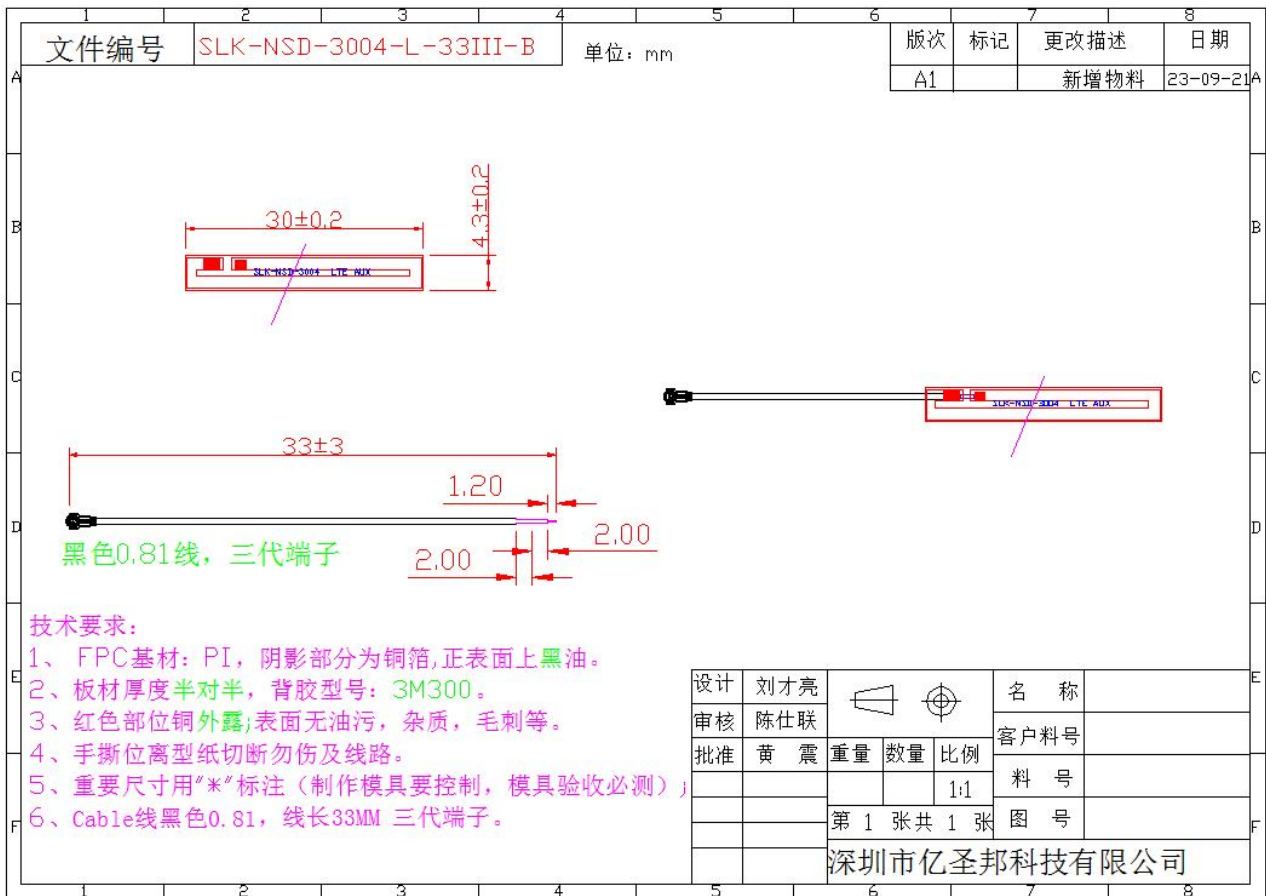
VSWR



S11



5. Antenna Dimensions (unit: mm)



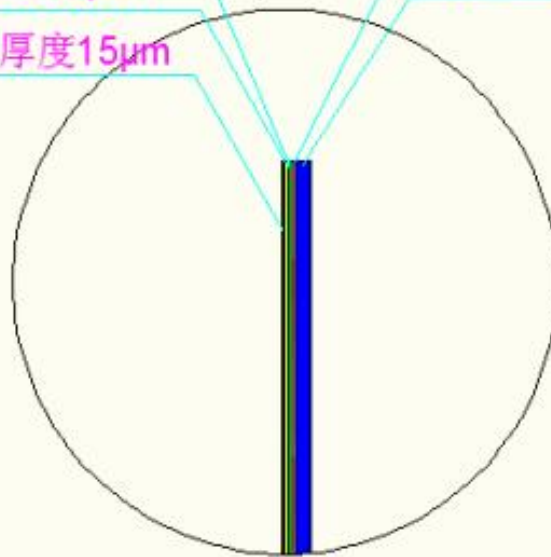
绿色: PI基材, 厚度25 μ m

红色: 3M300胶, 厚度50 μ m

黄色: 覆铜, 厚度35 μ m

蓝色: 离型纸, 厚度100 μ m

紫红色: 黑油, 厚度15 μ m



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6. Antenna Picture

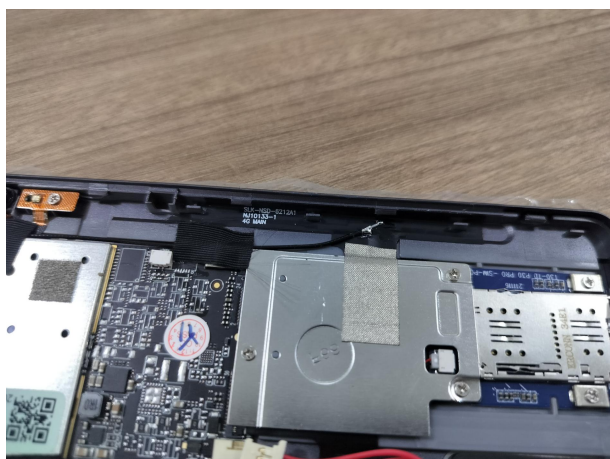


如图所示:

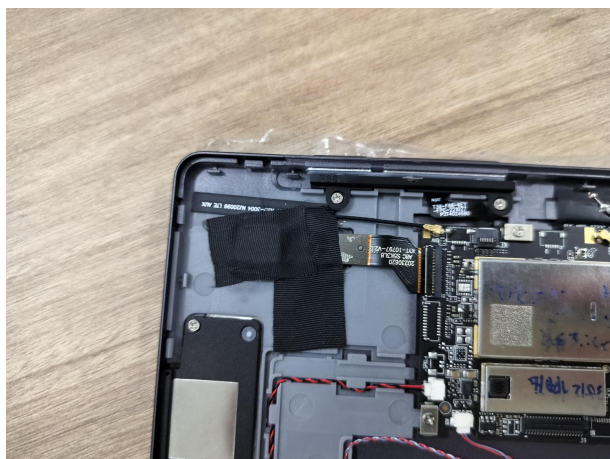
1.把屏排线拉一块导电布包起来屏蔽处理。

2.在主板屏蔽罩贴上导电海绵与屏接触处理

3.注: 主板底部原环境漏铜区贴导电海绵与底壳接地处理。



4G 主天线



4G 分集天线



WIFI/GSP 天线