

Shenzhen Yishengbang Technology Co., LTD
Sample acceptance letter
SPECIFICATION FOR APPROVAL

The name of the company: Shenzhen Puer Electronic Co., LTD

The material code: _____

specifications: A1027

Admitted to date: _____

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier standard type number: WIFI+GPS:SLK-PNE-3913E

4G AUX:SLK-PNE-2218-R-190111-B 4G MAIN:SLK-PNE-6512A

WIFI+GPS 小板: SLK-PNE-WG-180111-B 4G 小板: SLK-PNE-4G-135111-G

Admit signature

For acceptance by the contractor

Shenzhen Puer Electronic Co., LTD

Rf Engineer

quality
department

Structural
engineer

The engineer

The reviewer

approved

Shi lian
Chen

Jie xing
Chen

Cailiang Liu

approved

M. Li lin

Signed and sealed

date

2022-09-08

date

Instructions: ☐accept ☐Conditional acceptance

note:

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier address: 101, Building C, Shenzhen Qianwan Hard Technology Industrial Park, Bao 'an District, Shenzhen

telephone: 18025305599

telephone: 18666299104

Shenzhen Yishengbang Technology Co., LTD

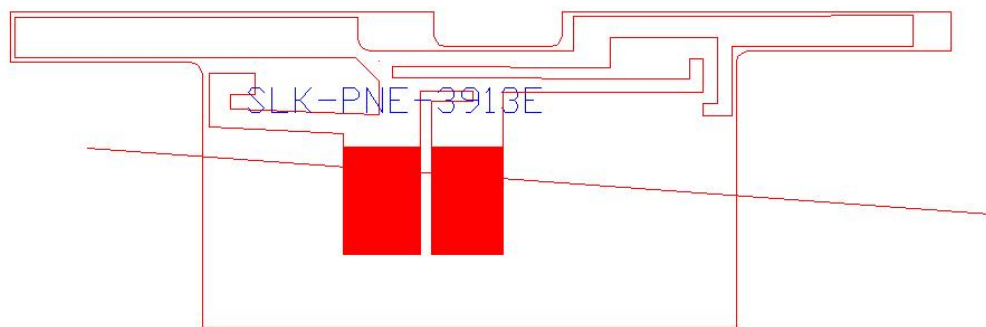
WIFI+GPS Antenna (3913E)

1. Explanation of Product number :

S L K - P N E - 3 9 1 3 E

1

2



Product Code:

(1) Customer:

PNE: 普耐尔

(2) Project:

3913E: SLK-PNE-3913E (WIFI+GPS antenna GHz)

备注：配套SLK-PNE-WG-180III-B小板

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.

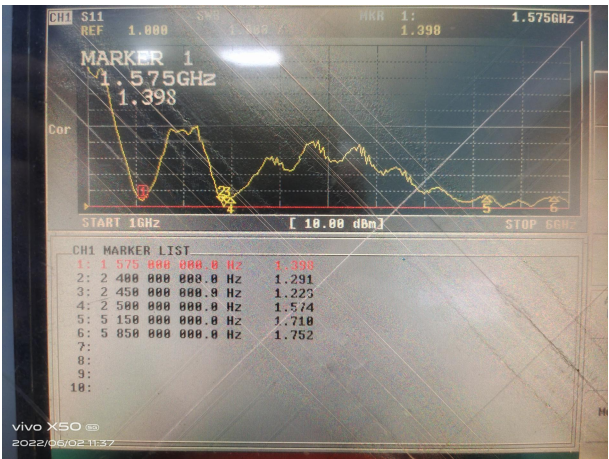
5. Electrical Specifications

5-1

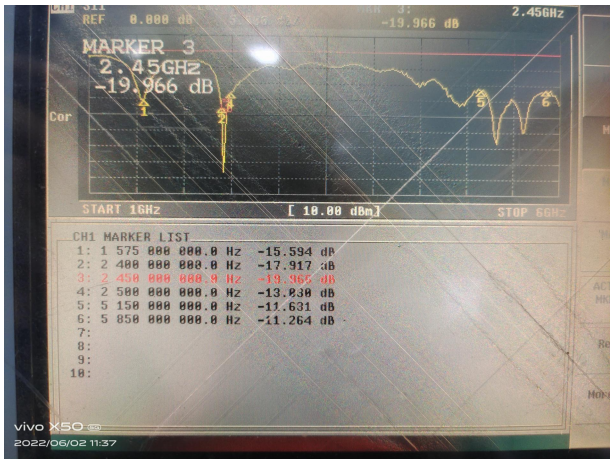
Characteristics	Specifications	Unit
Outline Dimensions	39.5x 13.25x 0.12	mm
Center Frequency	1.575+2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	150min	MHz
VSWR	3max	

5-2.

VSWR

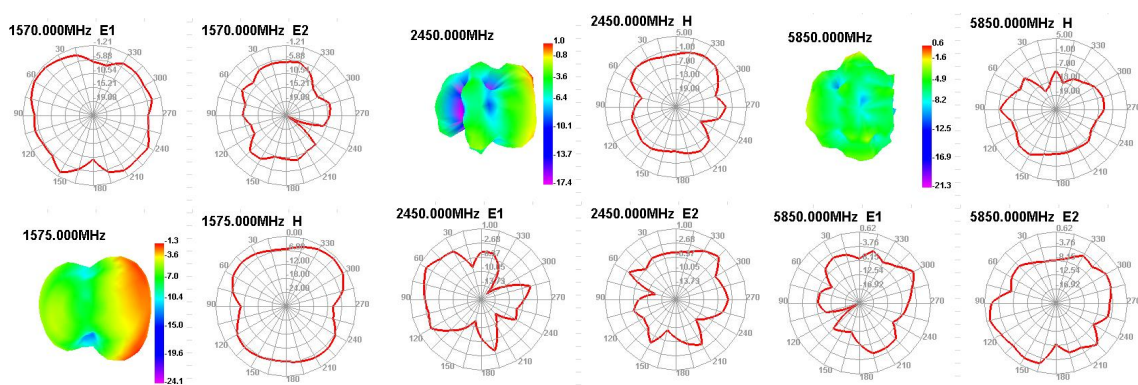


S11

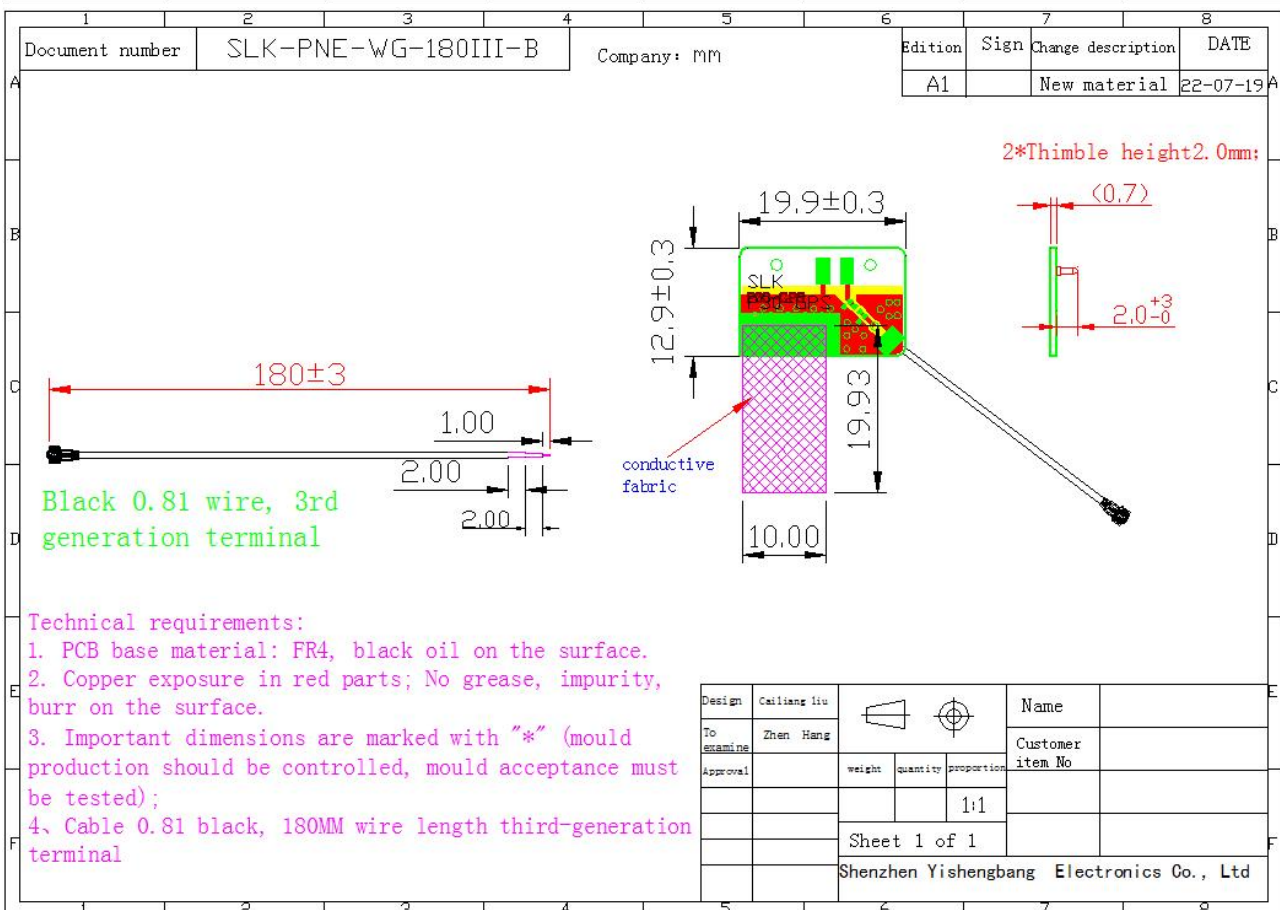
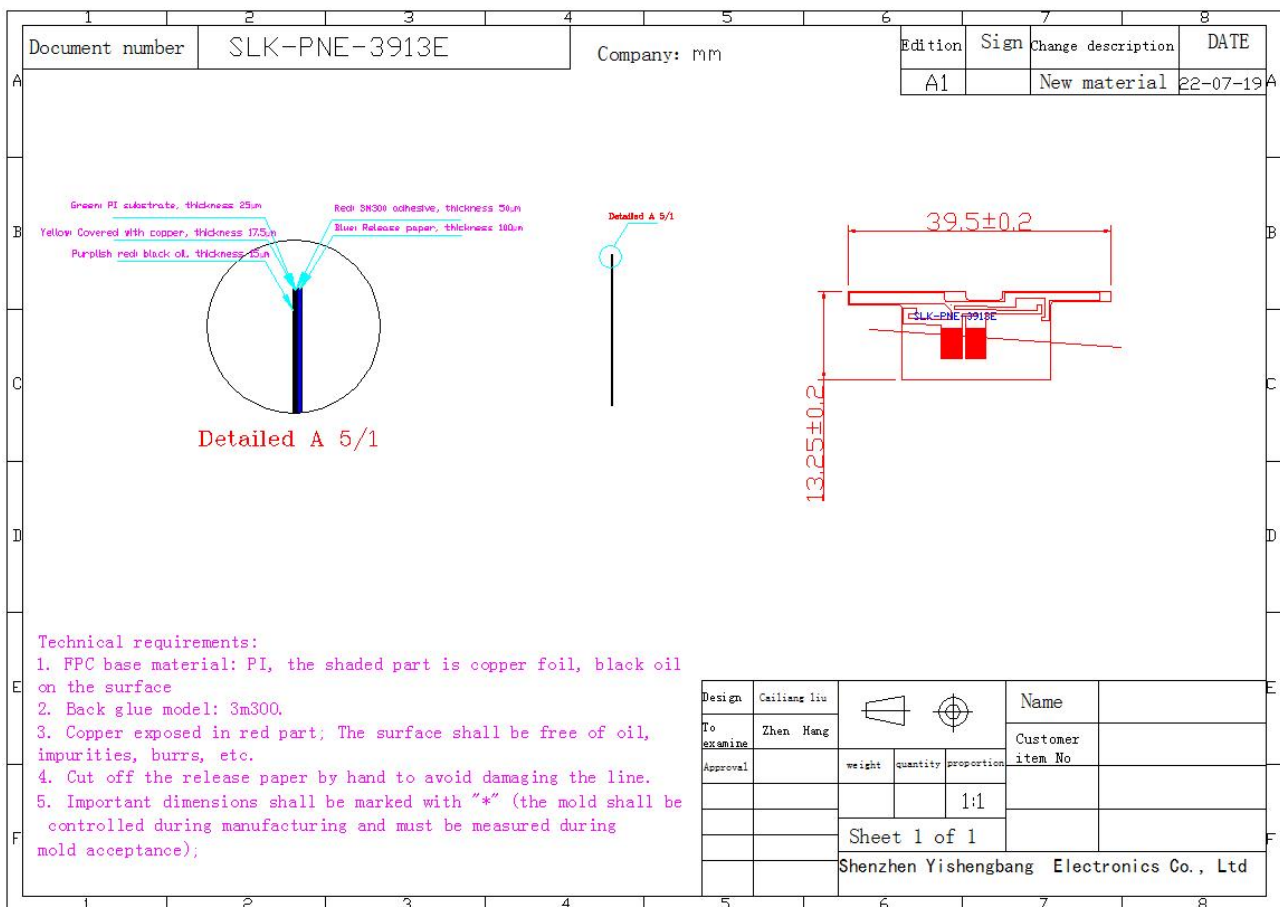


5-3.WIFI +GPS Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency(MHz)	Efficiency (%)	Average Gain(dB)	Peak GAIN (dBi)
1570	36.36	-4.39	-1.21
1575	36.98	-4.32	-1.3
1580	35.96	-4.44	-0.78
2400	35.17	-4.54	0.57
2410	35.97	-4.44	0.56
2420	34.3	-4.65	1.1
2430	37.43	-4.27	1.27
2440	34.64	-4.6	1.19
2450	39.85	-4	1
2460	36.35	-4.4	1.32
2470	36.27	-4.4	1.17
2480	34.26	-4.65	1.66
2490	34.41	-4.63	1.3
2500	36.9	-4.33	2.06
5150	30.24	-5.19	-0.09
5350	31.38	-5.03	0.05
5550	32.24	-4.92	0.39
5750	36.39	-4.39	1.01
5850	30.47	-5.16	0.6



6. Antenna Dimensions (unit: mm)

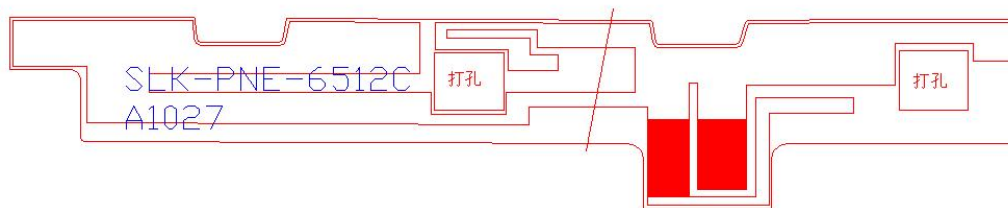


4G MAIN Antenna (6512A)

1. Explanation of Product number :

S L K - P N E - 6 5 1 2 A

1 2



Product Code:

(1) Customer:

PNE:普耐尔

(2) Project:

6512A: SLK-PNE-6512A (4G MAIN antenna)

备注：配套SLK-PNE-4G-135III-G小板

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

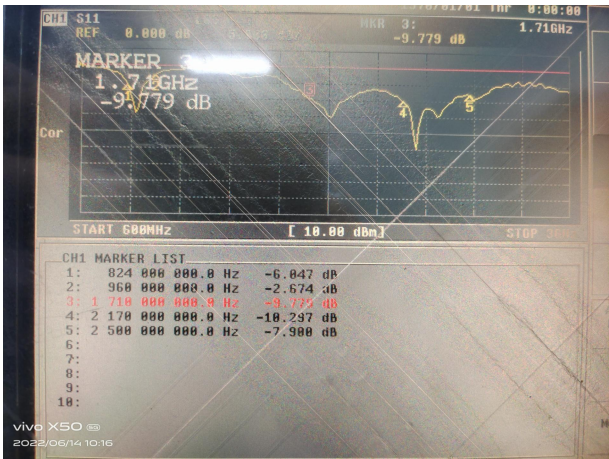
Characteristics	Specifications	Unit
Outline Dimensions	65.84x 12.41 x 0.12	mm
Bandwidth(under-10dB return loss)	150min	MHz
VSWR	5max	

4-2

VSWR



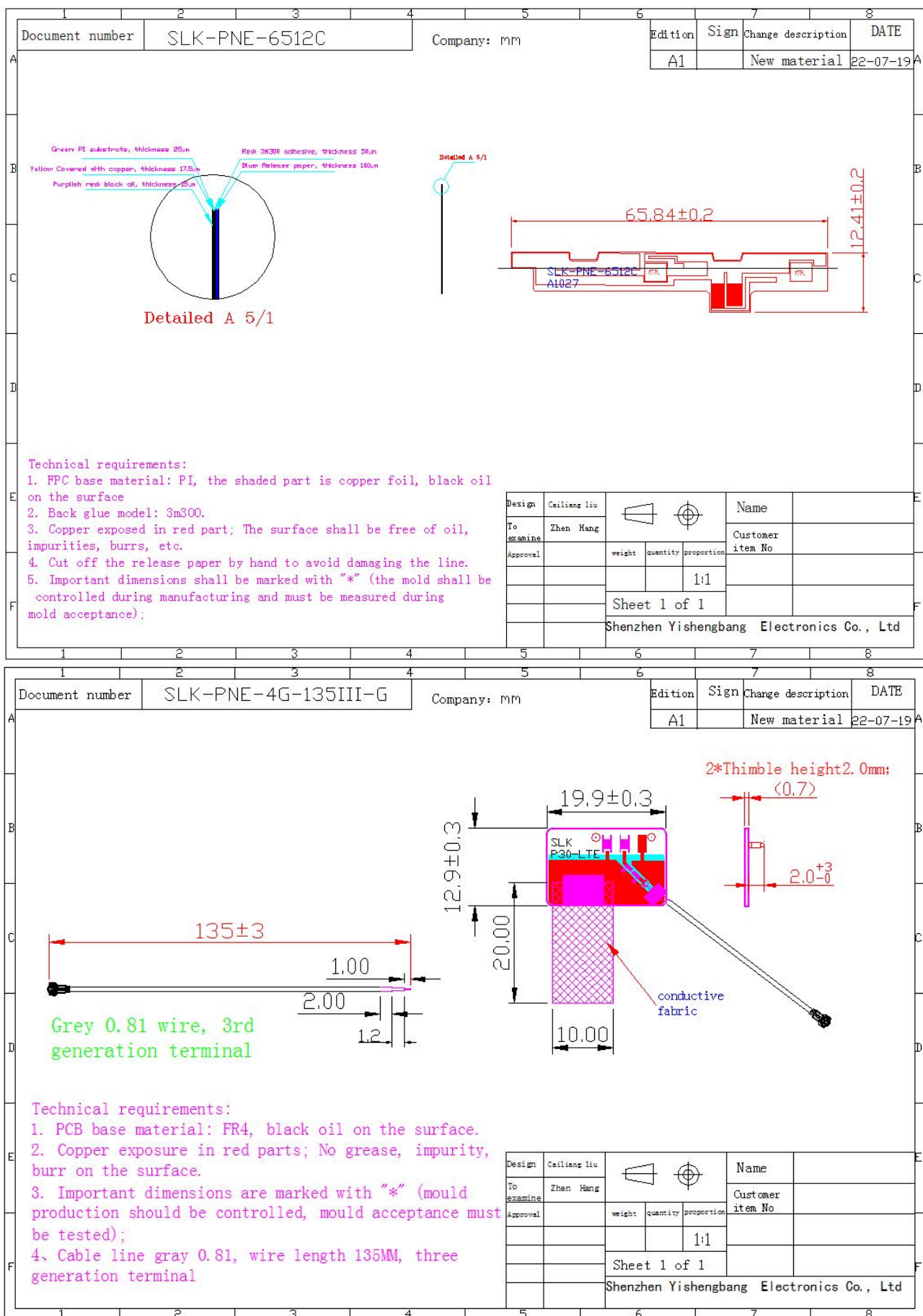
S11



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

2G 频段	LTE-L	LTE-M	LTE-R	TIS	增益
GSM850	25.73	25.68	25.37	-102.69	0.8
GSM900	25.62	25.25	25.4	-101.99	0.9
GSM1800	24.41	24.26	23.61	-101.23	1.1
GSM1900	25.4	25.19	25.33	-102.47	1.2
3G 频段	LTE-L	LTE-M	LTE-R	TIS	增益
WCDMA-B1	17.16	17.45	17.53	-103.59	1.3
WCDMA-B2	16.46	16.06	16.17	-103.37	1.2
WCDMA-B5	17.78	17.38	17.11	-103.63	0.8
4G 频段	LTE-L	LTE-M	LTE-R	TIS	增益
LTE-2	16.51	16.79	17.03	-91.39	1.2
LTE-4	16.73	17.01	17.14	-90.06	1.1
LTE-7	17.38	17.16	16.73	-88.21	1.4
LTE-8	16.4	16.46	16.29	-87.54	0.8
LTE-28	14.51	15.25	16.09	-89.73	0.7

5. Antenna Dimensions (unit: mm)

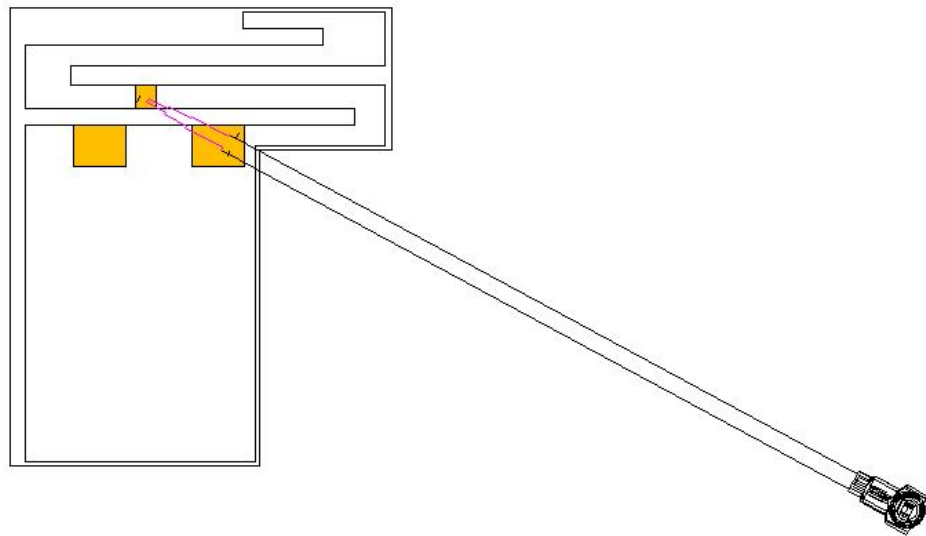


4G AUX Antenna (2218)

1. Explanation of Product number:

S L K - P N E - 2 2 1 8 - R - 1 9 0 I I I - B

1 2 3 4 5



Product Code:

(1) Customer:

PNE:普耐尔

(2) Project:

2218: SLK-2218 (4G AUX antenna)

(3) Welding Position

R: Right

(4) Cable Length:

190III: 190III*0.81三代端子

(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

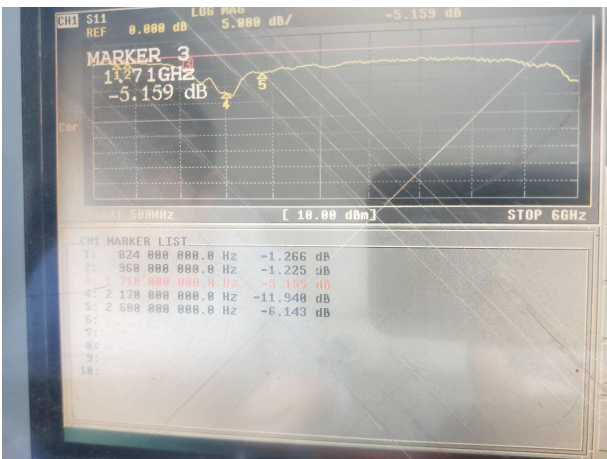
Characteristics	Specifications	Unit
Outline Dimensions	18.2x 21.8x 0.12	mm
Bandwidth(under-10dB return loss)	150min	MHz
VSWR	5max	

4-2

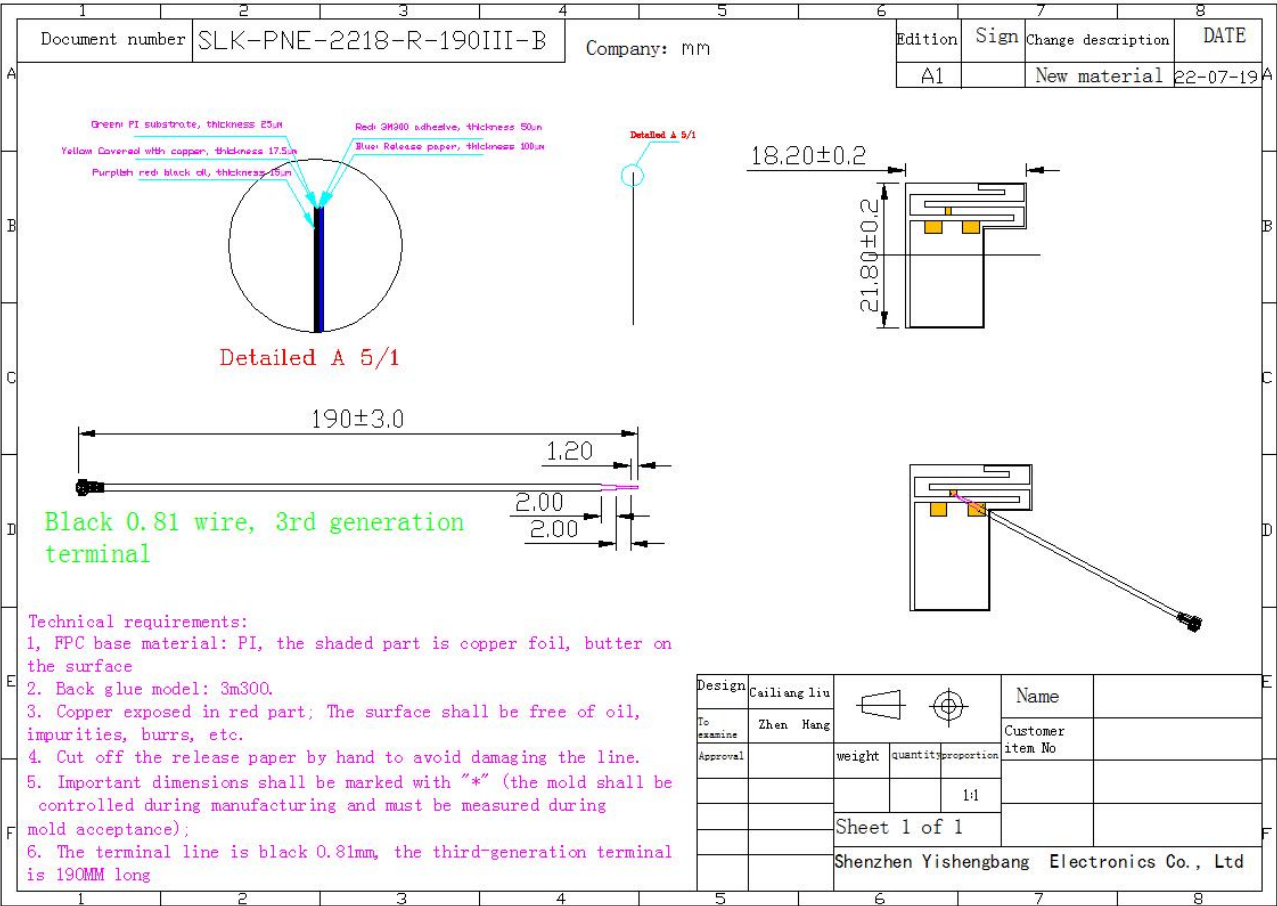
VSWR



S11



5. Antenna Dimensions (unit: mm)



6. Antenna Picture



As shown in the picture:

1. Wrap the screen cables with a conductive cloth
2. Wrap the camera cables with a conductive cloth, and then attach a conductive foam to the back cover
3. Connect the conductive cloth on the shielding cover of the mainboard and put a conductive foam or sponge on the back cover. Then pull it to the screen for grounding
4. The copper leakage area of the rear cover is grounded with conductive foam
5. Handle the original environment at the bottom of the mainboard, attach conductive sponge to the copper leakage area and ground the screen

