

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

The name of the company: Guangzhou LieDun Electronic Technology Co. LTD

The material code: _____

specifications: _____

Admitted to date: _____

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

Supplier standard type number: NFC:SLK-LD-4419-L-95IV-B

GPS:SLK-LD-2611-M-90IV-B WIFI:SLK-LD-1608-R-65IV-G

4G MAIN:SLK-LD-4239 4G AUX:SLK-LD-3020

Admit signature

For acceptance by the contractor			Guangzhou LieDun Electronic Technology Co. LTD		
The engineer	The reviewer	approved	The engineer	The reviewer	approved
Xinzhu Fan	Zhen Huang	Meicai Lin			
Signed and sealed		Signed and sealed			
date		2023-11-25	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

NFC

1. Explanation of Product number :



Product Code:

(1) Customer:LieDun

(2) Antenna Name:NFC Antenna

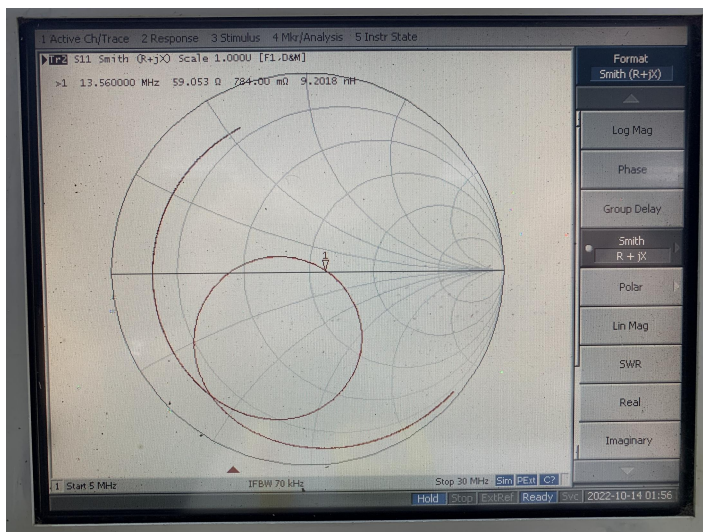
(3) Connector:0.81 Black cable, total length: 95mm, 4 generation terminals

2. Features

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

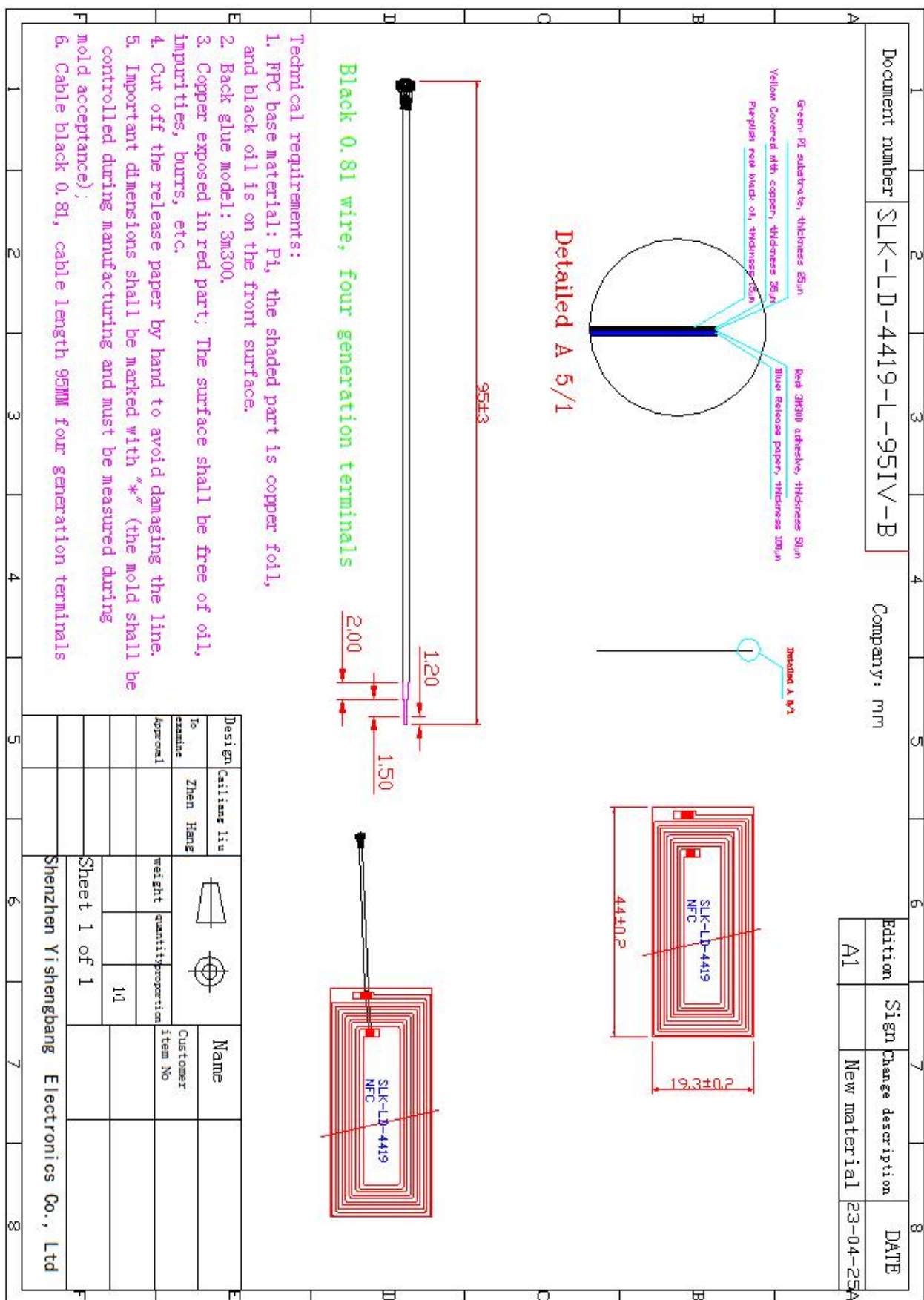
3. Electrical Specifications

Smith



NFC:0dB_i

4. Antenna Dimensions (unit: mm)



1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:GPS Antenna
- (3) Connector:0.81 Black cable, total length 90mm, 4 generation terminals

2. Features

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

3. Description

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

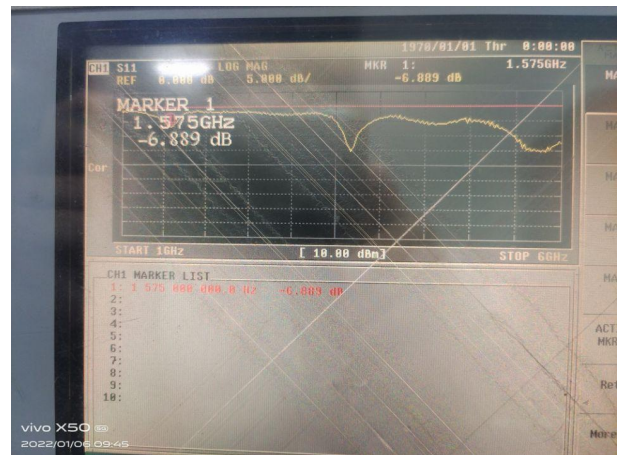
4. Electrical Specifications

4-1.

VSWR



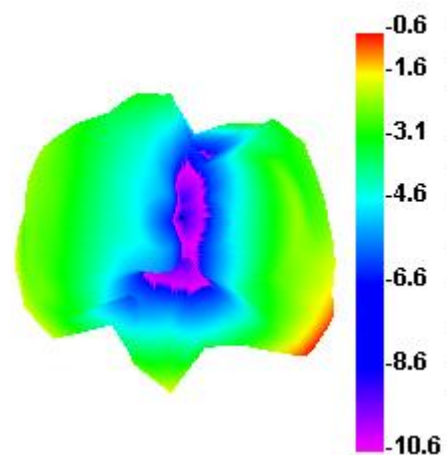
S11



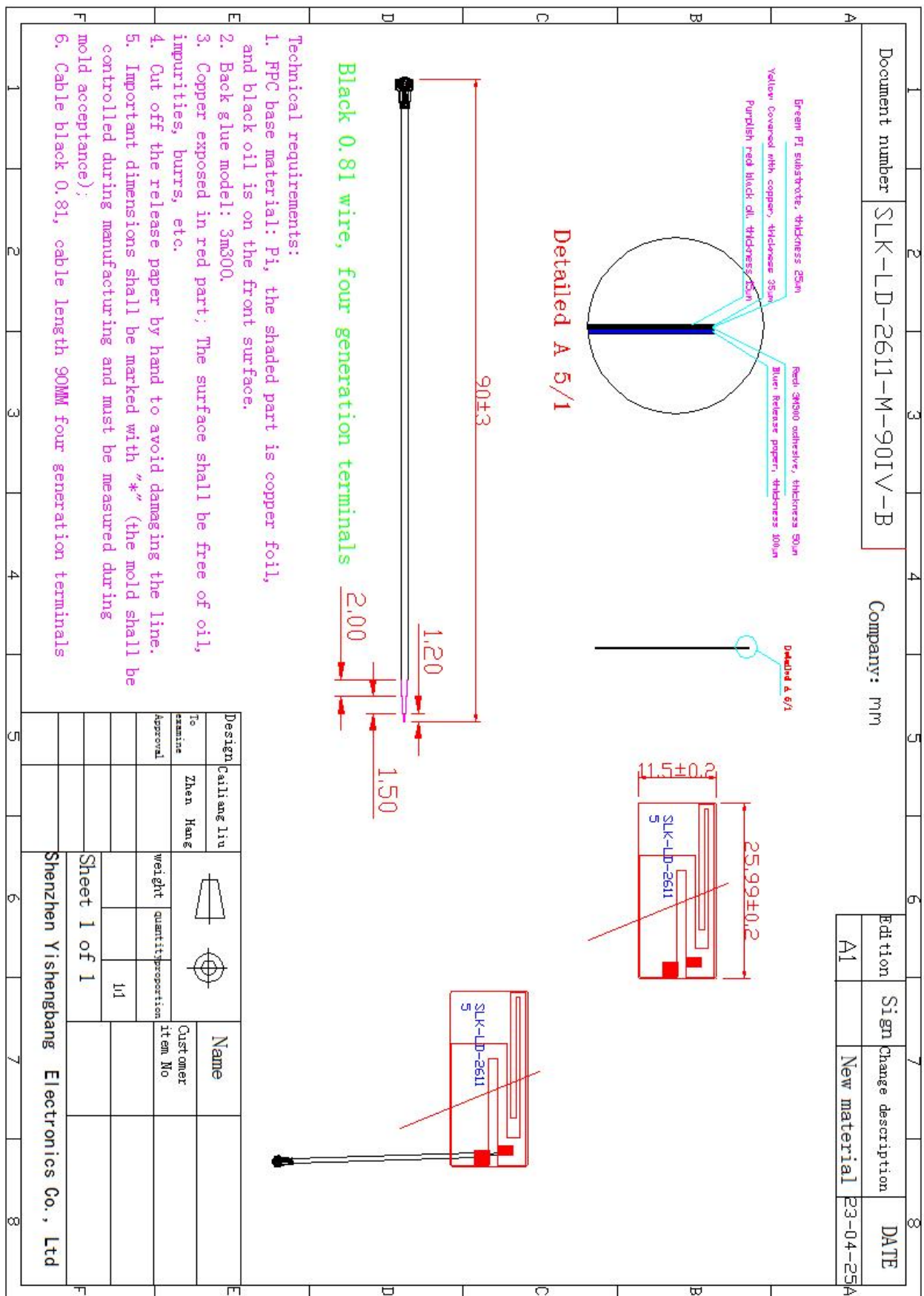
4-2.GPS Antenna Gain/Efficiency/Radiation Pattern of 3D

1575.000MHz

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1570	29.48	-5.3	-0.66
1575	29.57	-5.29	-0.63
1580	31.54	-5.01	-0.32

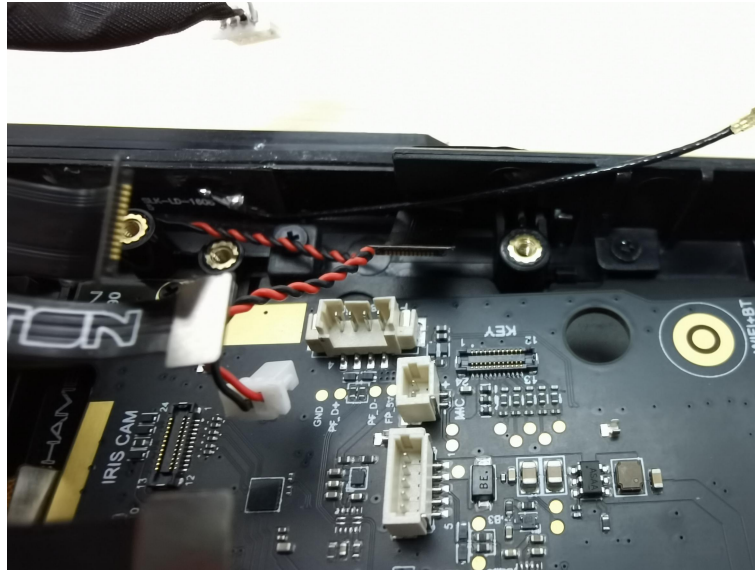


5. Antenna Dimensions (unit: mm)



WIFI Antenna

1.Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:WIFI Antenna
- (3) Connector:0.81 gray cable, total length 65mm, 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	16.71x8.6x 0.12	mm
Center Frequency	2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	

5-2.

VSWR



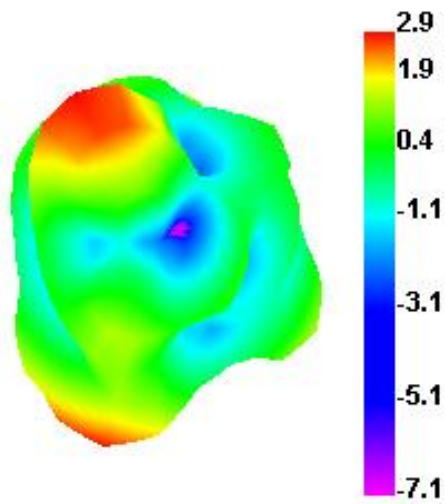
S11



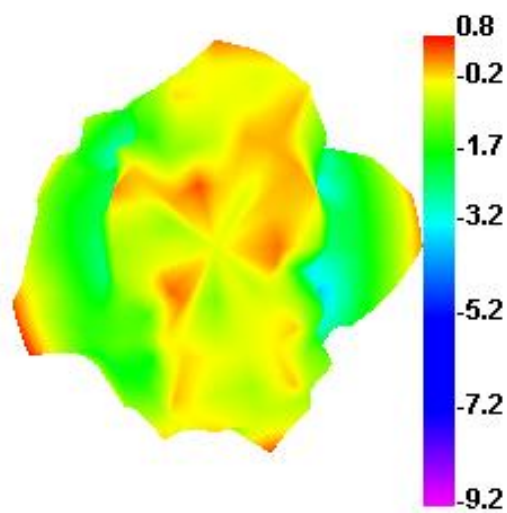
5-3.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.33	-3.63	3.27
2450	41.12	-3.85	2.88
2500	42.05	-3.76	3.30
5150	35.28	-4.52	3.30
5500	36.05	-4.43	0.28
5850	36.24	-4.4	0.76

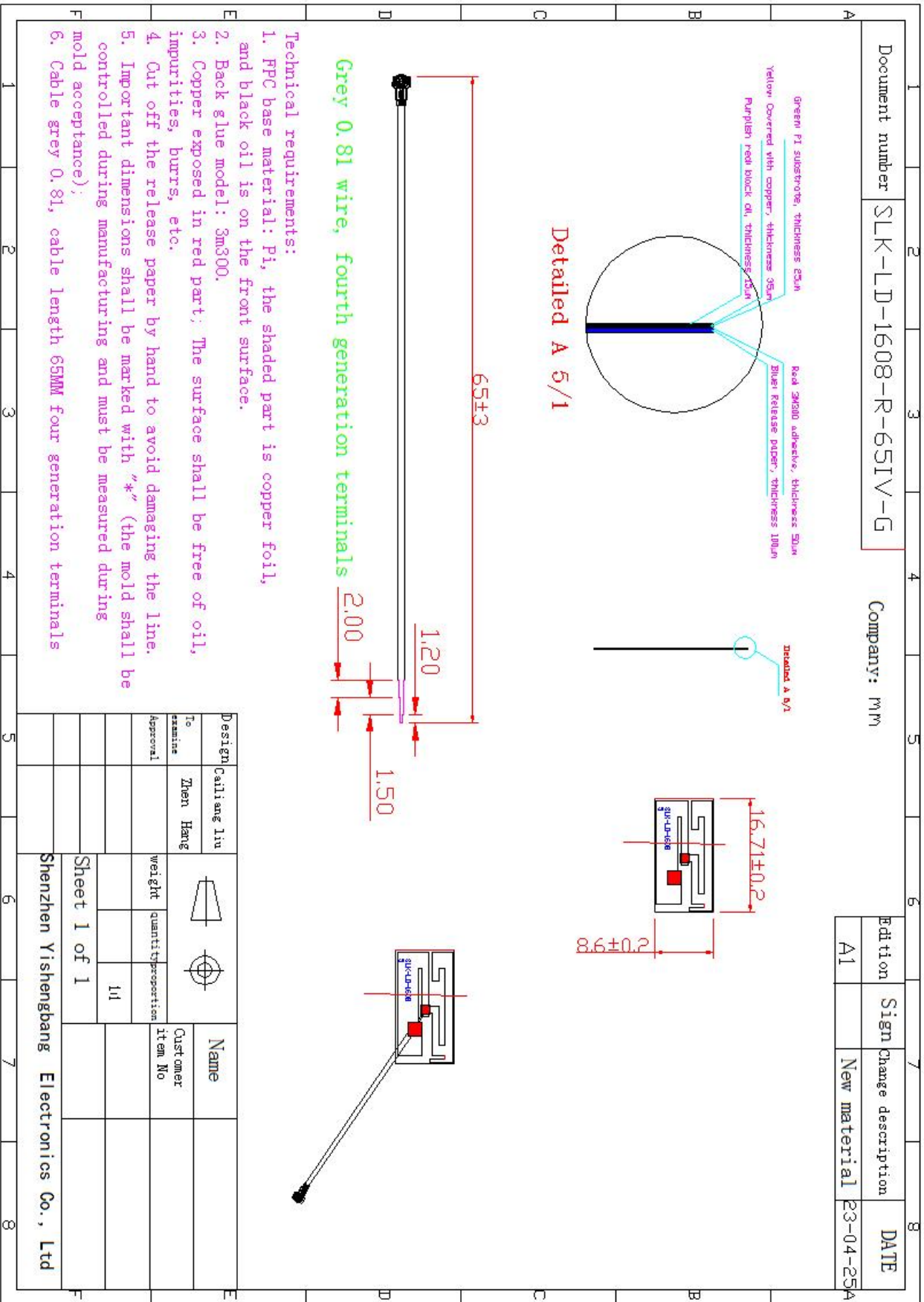
2450.000MHz



5850.000MHz



6. Antenna Dimensions (unit: mm)



4G MAIN

1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:4G MAIN Antenna
- (3) Connector:Thimble

2. Features

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

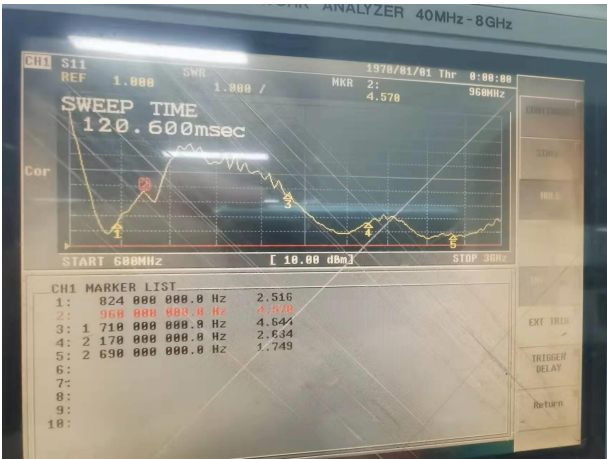
3. Description

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.

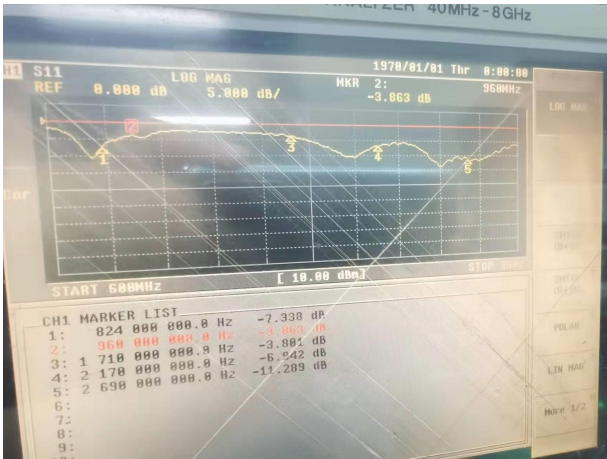
4. Electrical Specifications

4-1

VSWR



S11



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

欧版

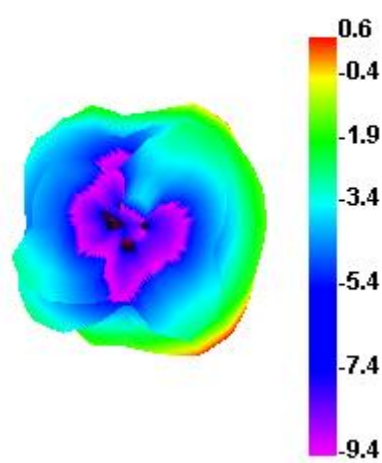
美版需要更改射频
开关逻辑后测试。

4G 频段	LTE-L	LTE-M	LTE-R	TIS
LTE-1	16.42	16.13	15.77	-92.2
LTE-2	16.5	16.8	17.1	-91.8
LTE-3	18.05	17.28	16.86	-92.6
LTE-4	17.78	17.69	17.09	-90.6
LTE-5	13.85	13.53	13.29	-85.38
LTE-7	17.93	17.96	17.43	-91.3
LTE-8	13.53	13.5	13.2	-85.1
LTE-20	13.5	13.1	13.7	-87.08
LTE-28	13.4	13.5	13.8	-85.3
LTE-38	17.14	16.05	16.56	-89.5
LTE-39	16.04	15.9	15.9	-90.1
LTE-40	17.0	17.2	17.7	-89.4
LTE-41	17.7	16.8	16.8	-88.9

4-3.4G Antenna Gain/Efficiency/Radiation Pattern of 3D

Freq (MHz)	Effi (%)	Effi (db)	Gain (dBi)
825	31.57	-5	1.5
960	30.16	-5.2	1.5
1700	31.98	-4.95	1.5
2100	34.56	-4.61	1.5
2690	32.94	-4.82	1.5

1700.000MHz

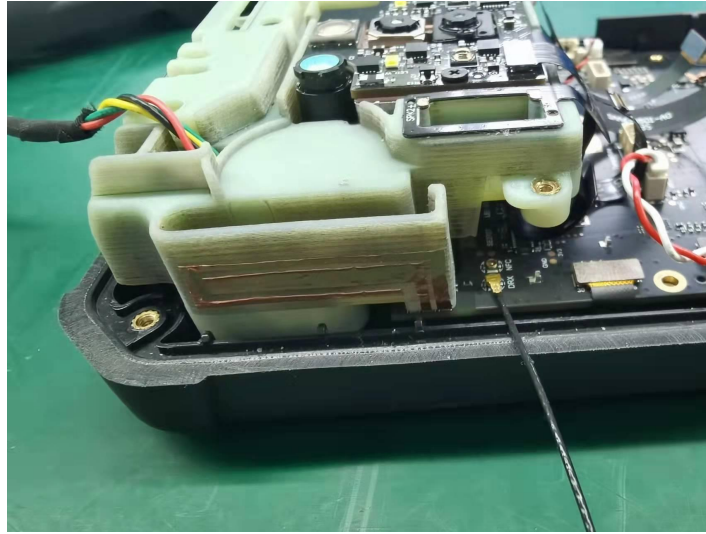


5. Antenna Dimensions (unit: mm)

1	2	3	4	5	6	7	8
Document number		SLK-LD-4239			Company: mm		
				Edition		Sign	Change description
				A1			DATE
						New material	P3-04-25A
Green PI substrate, thickness 85μm Yellow Covered with copper, thickness 35μm Purple red black oil, thickness 15μm Red 3M30 adhesive, thickness 30μm Blue Release paper, thickness 100μm Detailed A 5/1 Detailed A 6/1 42.07±0.2 39.27±0.2 R0.4 SLK-LD-4239							
Technical requirements: 1. FPC base material: PI, the shaded part is copper foil, and black oil is on the front surface. 2. Back glue model: 3m300. 3. Copper exposed in red part; The surface shall be free of oil, impurities, burrs, etc. 4. Cut off the release paper by hand to avoid damaging the line. 5. Important dimensions shall be marked with "*" (the mold shall be controlled during manufacturing and must be measured during mold acceptance);							
Design		Cailiang Liu		Name			
To examine		Zhen Hang		Customer			
Approval		Weight		quantity proportion		Item No	
				1:1			
				Sheet 1 of 1			
				Shenzhen Yishengbang Electronics Co., Ltd			

4G AUX

1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:4G AUX Antenna
- (3) Connector:Thimble

2. Features

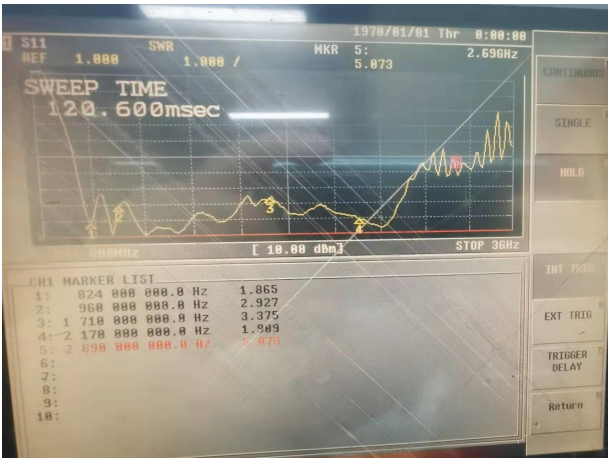
- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

3. Description

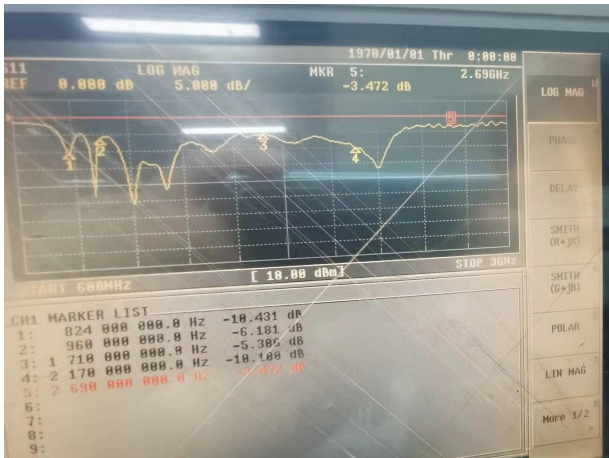
Holy bond's FPC antenna series are specially designed for 4G applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. Electrical Specifications

VSWR



S11



5. Antenna Dimensions (unit: mm)

Document number	SLK-LD-3020	Company: mm	Edition	Sign	Change description	DATE
			A1		New material	23-04-25A

Green: PI substrate, thickness 25um
Yellow: Covered with copper, thickness 35um
Purple/black oil, thickness 25um
Red: 3M300 adhesive, thickness 5um
Blue: Release paper, thickness 100um

Deleted A 9/1

30.4±0.2

20±0.2

SLK-LD-3020

Detailed A 5/1

Technical requirements:

- FPC base material: PI, the shaded part is copper foil, and black oil is on the front surface.
- Back glue model: 3M300.
- Copper exposed in red part; The surface shall be free of oil, impurities, burrs, etc.
- Cut off the release paper by hand to avoid damaging the line.
- Important dimensions shall be marked with "*" (the mold shall be controlled during manufacturing and must be measured during mold acceptance);

Design	Cailiang liu	Name	
To examine	Zhen Hang	Customer item No	
Approval		weight	quantity
		proportion	id
		Sheet 1 of 1	
		Shenzhen Yishengbang Electronics Co., Ltd	