

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-4425A-L-140IV-B

GPS:SLK-LD-2522-M-155IV-B WIFI:SLK-LD-1610-R-50IV-G

4G MAIN:SLK-LD-7018-R-205IV-B 4G AUX:SLK-LD-7018-R-105IV-G

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		2023-4-25	date		
instructions: ☐ accept ☐ Conditional acceptance					
note:					

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

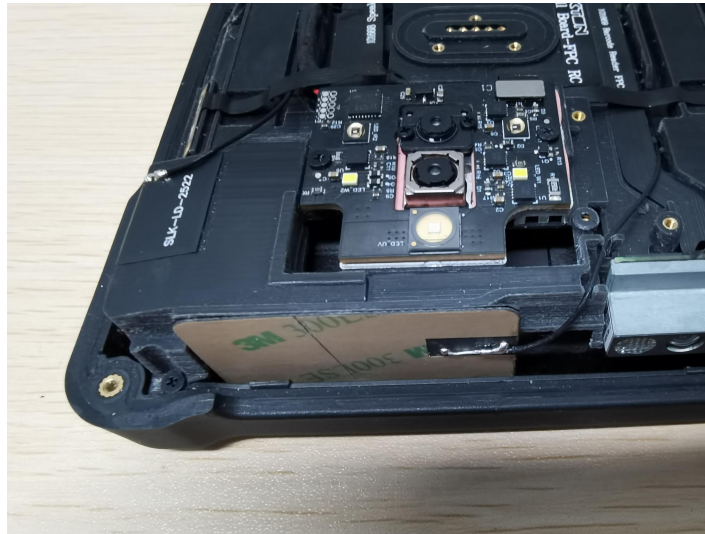
Supplier address: 101, Building C, Shenzhen Qianwan Hard Technology Industrial Park, Bao 'an District, Shenzhen

telephone: 18025305599

telephone: 18666299104

NFC

1. Explanation of Product number :



Product Code:

(1) Customer:LieDun

(2) Antenna Name:NFC Antenna

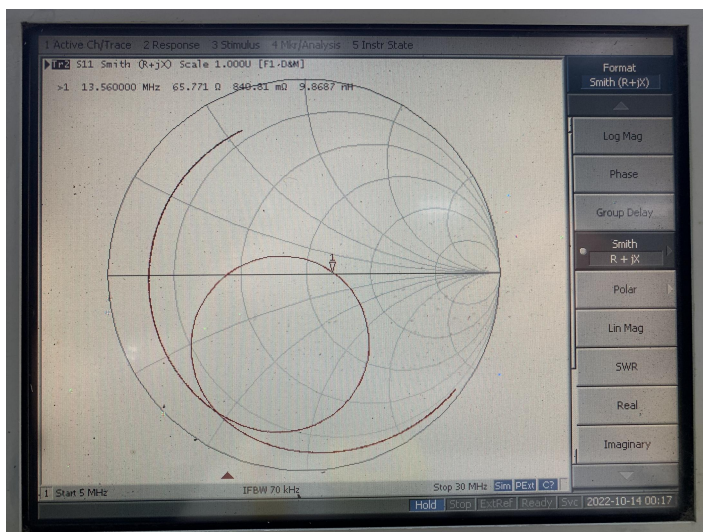
(3) Connector:0.81 Black cable, total length 140mm, 4 generation terminals

2. Features

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

3. Electrical Specifications

Smith



NFC:0dB*i*

4. Antenna Dimensions (unit: mm)

Document number		SLK-LD-4425A-L-140IV-B		Company: mm		Edition	Sign	Charge description	DATE
						A1		New material	23-04-25A

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);
- Cable black 0.81, cable length 140MM four generation terminals

Design		Name	
To	Zhen Hang		
Drawn			
Approval			
Weight quantity proportion		Customer item No	
1:1			
Sheet 1 of 1			
Shenzhen Yishengbang Electronics Co., Ltd			

GPS

1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:GPS Antenna
- (3) Connector:0.81 Black cable, total length 155mm, 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

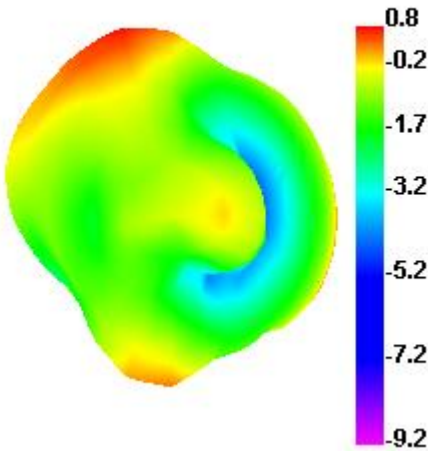


S11



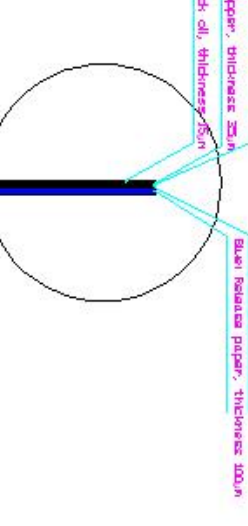
4-2.GPS Antenna Gain/Efficiency/Radiation Pattern of 3D
1575.000MHz

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1570	31.93	-4.95	0.88
1575	32.72	-4.85	0.79
1580	32.08	-4.93	0.49



5. Antenna Dimensions (unit: mm)

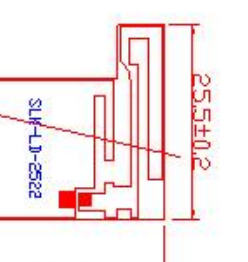
Document number	SLK-LD-2522-M-155IV-B			Company:	mm		
Edition	Sign	Change description	DATE				
A1		New material	P3-04-25A				

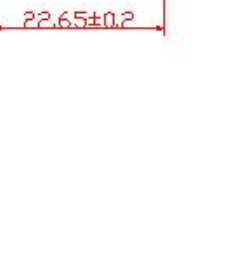


Detailed A 5/1

Black 0.81 wire, four generation terminals

- 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);
- Cable black 0.81, cable length 155MM four generation terminals





Design	Cailiang jin	To examine	Zhen Hang	Weight	quantity proportion	Customer item No
Approval					1/1	

Sheet 1 of 1
Shenzhen Yishengbang Electronics Co., Ltd

WIFI Antenna

1.Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:WIFI Antenna
- (3) Connector:0.81 grey cable, total length 50mm, 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

VSWR



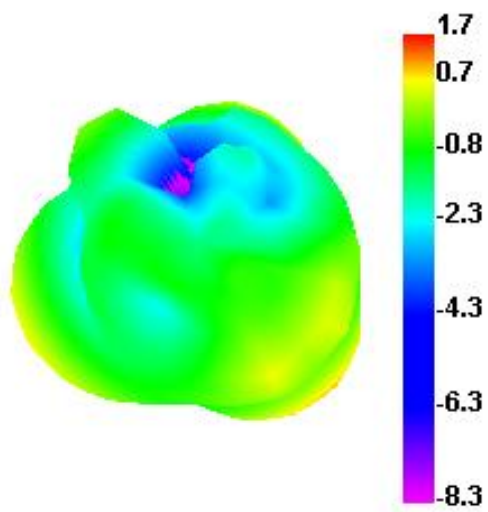
S11



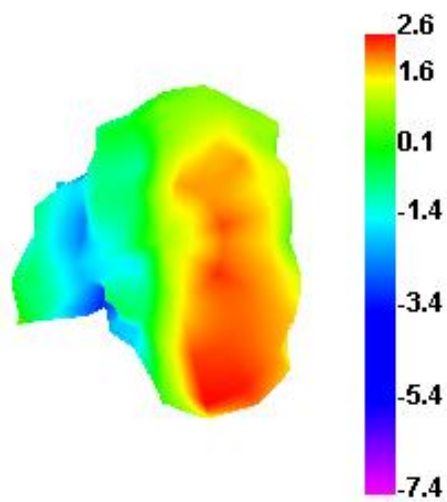
5-2.WIFI +BT Antenna Gain/Efficiency/Radiation Pattern of 3D

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	36.01	-4.43	1.93
2450	38.83	-4.1	2.13
2500	34.18	-4.66	2.00
5150	35.79	-4.46	2.13
5500	35.89	-4.45	1.14
5850	36.34	-4.39	1.64

2450.000MHz



5850.000MHz



6. Antenna Dimensions (unit: mm)

Document number	SLK-LD-1610-R-50IV-G	Company:	mm	Edition	Sign	Change description	DATE
				A1		New material	23-04-25A

Green Pt substrate, thickness 25µm
Yellow Covered with copper, thickness 35µm
Purple/red black oil, thickness 45µm
Red 9650 adhesive, thickness 50µm
Blue Release paper, thickness 100µm

Detailed A 5/1

Grey 0.81 wire, fourth generation terminals 2.00

16.71±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

1.20
1.50

10±0.2
15.8

4G MAIN

1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:4G MAIN Antenna
- (3) Connector:0.81 Black cable, total length 205mm, 4 generation terminals

2. Features

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

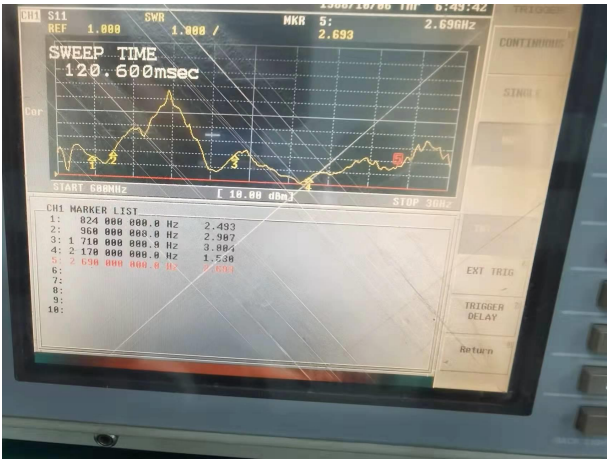
3. Description

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

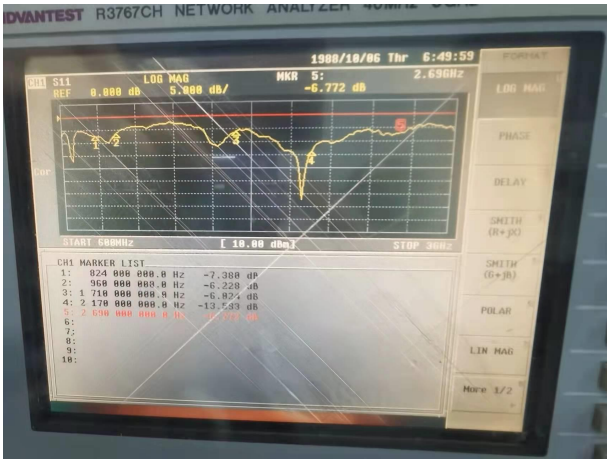
4. Electrical Specifications

4-1

VSWR



S11



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

美版

4G 频段	LTE-L	LTE-M	LTE-R	TIS
LTE-2	16.9	17.7	18.4	-96.3
LTE-4	18.1	17.7	17.5	-94.9
LTE-5	15.5	15.5	15.1	-85.8
LTE-7	15.4	14.7	14.5	-95.2
LTE-12	13.1	13.3	13.6	-83.1
LTE-13	14.7	14.9	14.9	-84.7
LTE-14	14.9	15.1	14.8	-84.4
LTE-17	12.6	12.7	12.9	-83.7
LTE-25	17.9	18.5	18.5	-96.6
LTE-26	15.1	15.6	15.0	-86.9
LTE-66	18.2	17.6	16.7	-94.3
LTE-71	12.8	12.7	12.9	-84.9

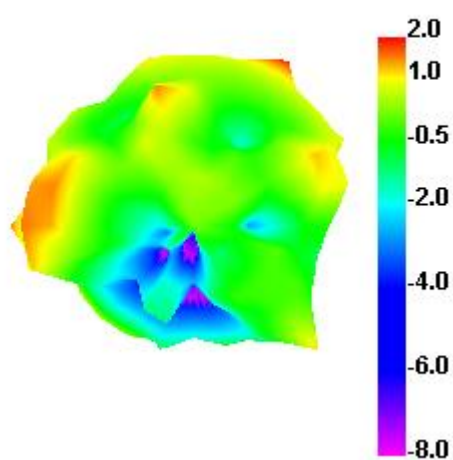
欧版

4G 频段	LTE-L	LTE-M	LTE-R	TIS
LTE-1	17.2	16.9	16.8	-93.5
LTE-2	17.1	16.8	17.1	-94.1
LTE-3	17.3	17.2	16.9	-94.6
LTE-4	17.9	17.7	17.5	-94.3
LTE-5	15.8	15.6	15.2	-85.7
LTE-7	15.5	15.3	14.9	-94.4
LTE-8	14.8	15.0	14.7	-86.7
LTE-20	14.6	14.1	14.8	-86.5
LTE-28	13.3	13.5	14.2	-84.8
LTE-38	16.9	16.6	16.7	-88.9
LTE-39	16.2	15.8	15.9	-89.9
LTE-40	17.3	17.5	17.6	-88.8
LTE-41	17.5	17.2	16.9	-87.6

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

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
825	30.76	-5.12	1.65
960	31.74	-4.98	1.65
1700	35.15	-4.54	1.65
2100	32.67	-4.85	1.65
2690	30.96	-5.09	1.65

1700.000MHz



5. Antenna Dimensions (unit: mm)

Document number	SLK-LD-7018-R-2051V-B	Company: mm	Edition	Sign	Change description	DATE
			A1		New material	E3-04-25A

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

Green PI substrate, thickness 35µm
Yellow Covered with copper, thickness 35µm
Red 3K300 adhesive, thickness 100µm
Blue Release paper, thickness 100µm
Detailed A 5/1

Black 0.81 wire, four generation terminals

205±3

2.00

1.20

2.50

4G AUX

1. Explanation of Product number :



Product Code:

- (1) Customer:LieDun
- (2) Antenna Name:4G AUX Antenna
- (3) Connector:0.81 Black cable, total length 105mm, 4 generation terminals

2. Features

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

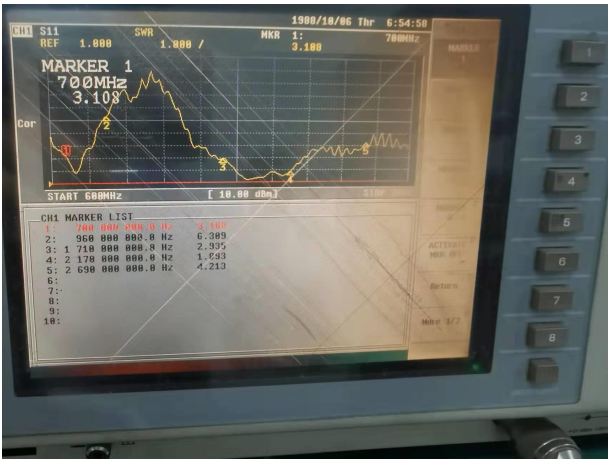
3. Description

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

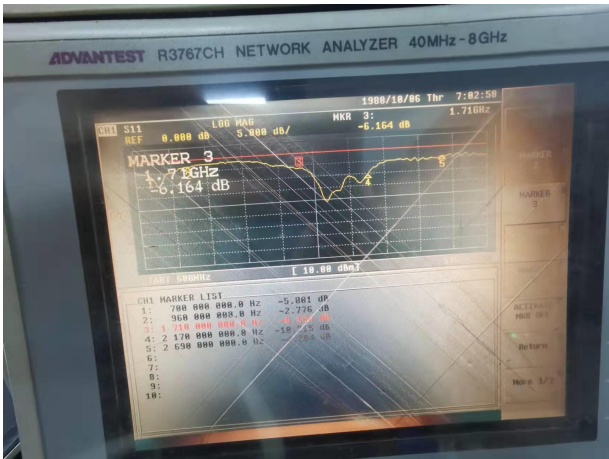
4. Electrical Specifications

4-1

VSWR



S11



5. Antenna Dimensions (unit: mm)

