

Shenzhen Yishengbang Technology Co., Ltd.

Sample Acknowledgement Letter

SPECIFICATION FOR APPROVAL

Company Name

(To be filled in by the customer):

Shenzhen Jinghua Information Technology Co., Ltd.

Antenna Type:

Integral Antenna

Specification Number

(to be filled in by the customer):

M1035-LTE

Recognition Date

(to be filled by the customer):

Supplier Name

(To be filled in by SLK):

Shenzhen Yishengbang Technology Co., Ltd.

Supplier Name

(To be filled in by SLK):

WIFI+GPS:SLK-JH-2012H

4G MAIN:SLK-JH-6939-R-185IV-B-0.81

4G AUX:SLK-JH-1709

Approval Signature					
Supplier Confirmation(SLK field)			Shenzhen Jinghua Information Technology Co., Ltd.		
Engineer	Examine and verify	Ratify	Engineer	Examine and verify	Ratify
Chen Shilian	Huang Zhen	Lin Meikai			
Seal and Sign			Seal and Sign		
Date	2026-5-27		Date		
			Written instructions or comments : ☐ accept		
			☐ qualified acceptance		
Remarks(to be filled in by the customer):					

Supplier Name: Shenzhen Yishengbang Technology Co., Ltd.
Supplier Address: Room 101, Building C, Shenzhen Qianwan
Hard Technology Industrial Park, Bao'an District, Shenzhen
Phone: 18025305599 Phone: 18666299104

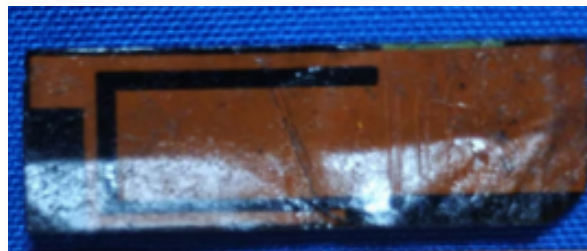
WIFI+GPS Antenna (2012H)

1. Explanation of Product number :

S L K - J H - 2 0 1 2 H

1 2

20.93±0.2



11 82+0 2

Product Code:

(1) Customer:

JH:

(2) Project:

2012H: SLK-2012H (WiFi+GPS antenna)

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

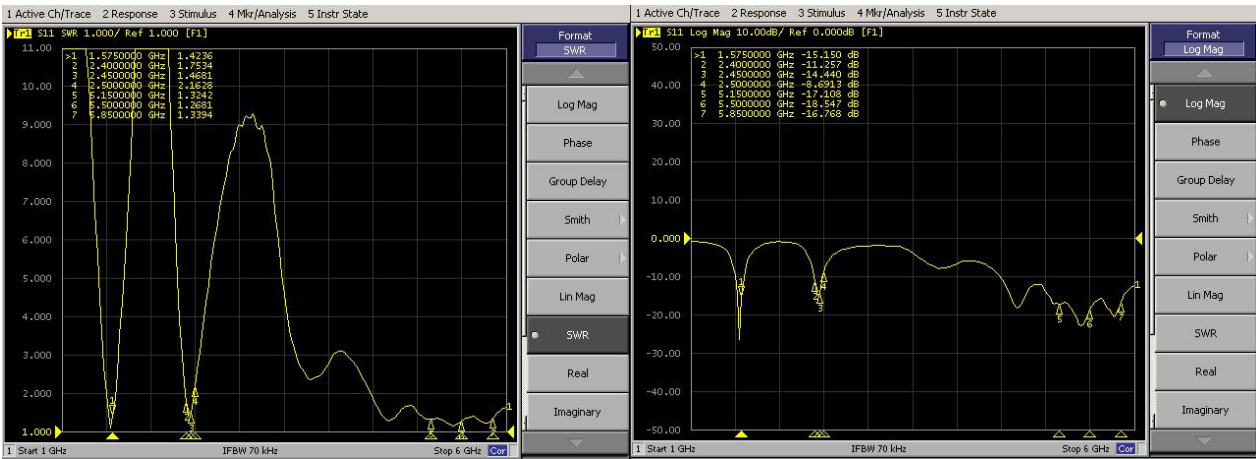
5-1

Characteristics	Specifications	Unit
Outline Dimensions	20.93x 11.82x 0.12	mm
Center Frequency	1.575+2.4-2.5+5.15-5.85	GHz
Bandwidth(under-10dB return loss)	50min	MHz
VSWR	3max	

5-2.

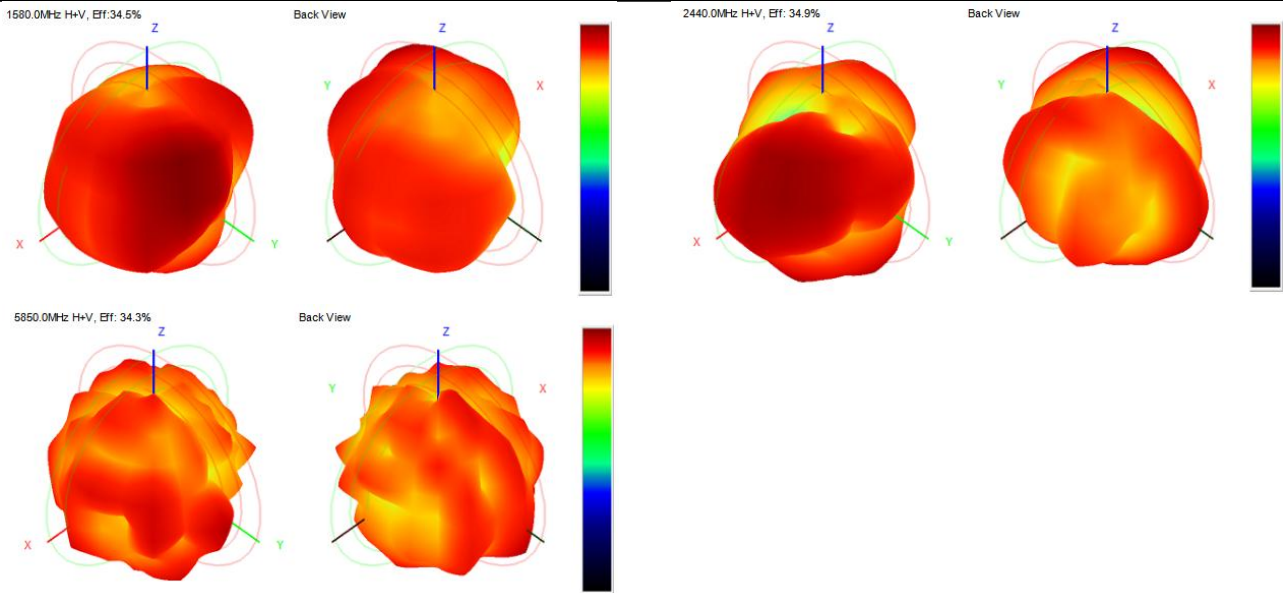
VSWR

S11



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

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)	天线增益 (dbi)
1570.0	-4.78	0.61	33.25	0.82
1575.0	-4.68	0.73	34.08	
1580.0	-4.63	0.82	34.46	
2400.0	-4.78	0.89	33.23	1.27
2410.0	-4.76	1.19	33.44	
2420.0	-4.68	1.13	34.01	
2430.0	-4.60	1.12	34.65	
2440.0	-4.58	1.27	34.86	
2450.0	-4.77	0.82	33.34	
260.0	-4.67	1.16	34.15	
2470.0	-4.75	1.13	33.51	
2480.0	-4.60	0.74	34.64	
2490.0	-4.68	1.02	34.04	
2500.0	-4.70	0.97	33.91	
5185.0	-4.94	1.57	32.03	1.57
5250.0	-4.72	2.07	33.74	2.07
5350.0	-4.86	1.61	32.69	1.61
5550.0	-4.66	1.72	34.21	1.72
5750.0	-4.53	1.51	35.23	1.51
5820.0	-4.65	1.44	34.31	1.44



WIFI Active Testing

频段（Fre）	tch test channel	TRP	TIS
B-11MMBps	1	13.12	-81.06
	6	13.82	-81.57
	11	13.53	-82.03
G-54MMBps	1	11.13	-69.22
	6	11.26	-70.08
	11	11.31	-70.53
N-MCS7	1	11.48	-64.32
	6	11.87	-64.76
	11	12.06	-65.03
A-54MMBps	36	10.25	-70.27
	149	10.47	-70.68
	165	10.77	-70.13

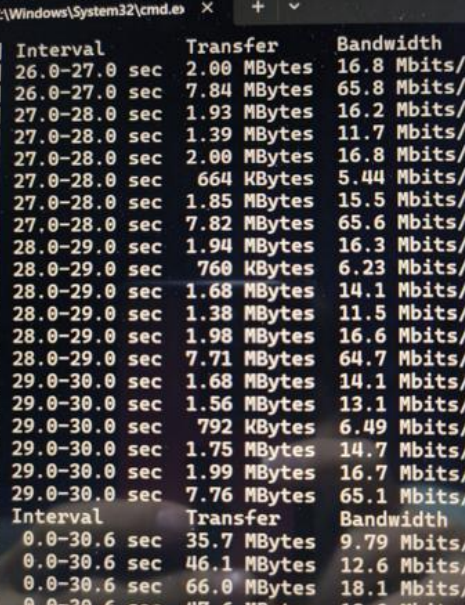
Wi-Fi throughput testing

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[ ID] Interval           Transfer     Bandwidth
[396] 26.0-27.0 sec      1.48 MBytes  12.5 Mb/s
[SUM] 26.0-27.0 sec      7.35 MBytes  61.7 Mb/s
[376] 27.0-28.0 sec      1.30 MBytes  10.9 Mb/s
[396] 27.0-28.0 sec      1.52 MBytes  12.8 Mb/s
[388] 27.0-28.0 sec      1.85 MBytes  15.5 Mb/s
[404] 27.0-28.0 sec      1.54 MBytes  12.9 Mb/s
[248] 27.0-28.0 sec      1.55 MBytes  13.0 Mb/s
[SUM] 27.0-28.0 sec      7.77 MBytes  65.1 Mb/s
[248] 28.0-29.0 sec      1.61 MBytes  13.5 Mb/s
[404] 28.0-29.0 sec      1.63 MBytes  13.6 Mb/s
[388] 28.0-29.0 sec      1.17 MBytes  9.83 Mb/s
[376] 28.0-29.0 sec      1.73 MBytes  14.5 Mb/s
[396] 28.0-29.0 sec      1.50 MBytes  12.6 Mb/s
[SUM] 28.0-29.0 sec      7.63 MBytes  64.0 Mb/s
[404] 29.0-30.0 sec      1.42 MBytes  11.9 Mb/s
[376] 29.0-30.0 sec      1.46 MBytes  12.3 Mb/s
[396] 29.0-30.0 sec      1.68 MBytes  14.1 Mb/s
[248] 29.0-30.0 sec      1.41 MBytes  11.9 Mb/s
[388] 29.0-30.0 sec      1.87 MBytes  15.7 Mb/s
[SUM] 29.0-30.0 sec      7.84 MBytes  65.8 Mb/s
[ ID] Interval           Transfer     Bandwidth
[396] 0.0-30.7 sec      50.5 MBytes  13.8 Mb/s
[376] 0.0-30.7 sec      40.9 MBytes  11.2 Mb/s
[388] 0.0-30.7 sec      47.6 MBytes  13.0 Mb/s
[248] 0.0-30.7 sec      50.2 MBytes  13.7 Mb/s
[404] 0.0-30.7 sec      43.4 MBytes  11.9 Mb/s
[SUM] 0.0-30.7 sec      233 MBytes  63.6 Mb/s
C:\iperf-3.1.3-win64>

```

2.4G download -
average speed 63.6 Mbits



```

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[ 384] 27.0-28.0 sec  1.93 MBytes  16.2 Mb/s/sec
[ 400] 27.0-28.0 sec  1.39 MBytes  11.7 Mb/s/sec
[ 368] 27.0-28.0 sec  2.00 MBytes  16.8 Mb/s/sec
[ 392] 27.0-28.0 sec  664 KBytes  5.44 Mb/s/sec
[ 380] 27.0-28.0 sec  1.85 MBytes  15.5 Mb/s/sec
[SUM] 27.0-28.0 sec  7.82 MBytes  65.6 Mb/s/sec
[ 380] 28.0-29.0 sec  1.94 MBytes  16.3 Mb/s/sec
[ 392] 28.0-29.0 sec  760 KBytes  6.23 Mb/s/sec
[ 400] 28.0-29.0 sec  1.68 MBytes  14.1 Mb/s/sec
[ 384] 28.0-29.0 sec  1.38 MBytes  11.5 Mb/s/sec
[ 368] 28.0-29.0 sec  1.98 MBytes  16.6 Mb/s/sec
[SUM] 28.0-29.0 sec  7.71 MBytes  64.7 Mb/s/sec
[ 380] 29.0-30.0 sec  1.68 MBytes  14.1 Mb/s/sec
[ 368] 29.0-30.0 sec  1.56 MBytes  13.1 Mb/s/sec
[ 392] 29.0-30.0 sec  792 KBytes  6.49 Mb/s/sec
[ 384] 29.0-30.0 sec  1.75 MBytes  14.7 Mb/s/sec
[ 400] 29.0-30.0 sec  1.99 MBytes  16.7 Mb/s/sec
[SUM] 29.0-30.0 sec  7.76 MBytes  65.1 Mb/s/sec
[ ID] Interval      Transfer      Bandwidth
[ 400] 0.0-30.6 sec  35.7 MBytes  9.79 Mb/s/sec
[ 380] 0.0-30.6 sec  46.1 MBytes  12.6 Mb/s/sec
[ 384] 0.0-30.6 sec  66.0 MBytes  18.1 Mb/s/sec
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[SUM] 0.0-30.7 sec  230 MBytes  62.8 Mb/s/sec
C:\iperf-3.1.2>ipperf3.1.2

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2.4G upload -
average speed 62.8 Mbits

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[400] 27.0-28.0 sec   6.08 MBytes   51.0 MbIts/sec
[376] 27.0-28.0 sec   6.05 MBytes   50.7 MbIts/sec
[368] 27.0-28.0 sec   6.05 MBytes   50.7 MbIts/sec
[384] 27.0-28.0 sec   6.05 MBytes   50.7 MbIts/sec
[SUM] 27.0-28.0 sec   30.3 MBytes   51.2 MbIts/sec
[400] 28.0-29.0 sec   6.06 MBytes   50.9 MbIts/sec
[376] 28.0-29.0 sec   6.10 MBytes   51.2 MbIts/sec
[392] 28.0-29.0 sec   6.05 MBytes   50.8 MbIts/sec
[368] 28.0-29.0 sec   6.05 MBytes   50.8 MbIts/sec
[384] 28.0-29.0 sec   6.05 MBytes   50.7 MbIts/sec
[SUM] 28.0-29.0 sec   30.3 MBytes   254 MbIts/sec
[376] 29.0-30.0 sec   6.13 MBytes   51.4 MbIts/sec
[368] 29.0-30.0 sec   6.12 MBytes   51.3 MbIts/sec
[400] 29.0-30.0 sec   6.14 MBytes   51.5 MbIts/sec
[392] 29.0-30.0 sec   6.10 MBytes   51.0 MbIts/sec
[384] 29.0-30.0 sec   6.05 MBytes   50.7 MbIts/sec
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[384] 0.0-30.2 sec   192 MBytes    53.5 MbIts/sec
[368] 0.0-30.2 sec   205 MBytes    57.0 MbIts/sec
[SUM] 0.0-30.2 sec   916 MBytes    255 MbIts/sec

C:\iperf-3.1.3-win64>

```

5G download -
average speed 255 Mbits

2.18.10

7/6

iPerf2 for Android

Abort

Save

IPv4

Your IP address is 192.168.1.103

iperf -s -i

Help

```

R1 22.00-24.00 sec: 6.12 Mbytes/sec 50.1 Mbits/sec
R2 22.00-23.00 sec: 5.98 Mbytes/sec 50.1 Mbits/sec
R3 22.00-23.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R4 22.00-23.00 sec: 5.98 Mbytes/sec 50.7 Mbits/sec
R5 22.00-23.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R6M 22.00-23.00 sec: 30.1 Mbytes/sec 253 Mbits/sec
R7 23.00-24.00 sec: 5.92 Mbytes/sec 49.6 Mbits/sec
R8 23.00-24.00 sec: 6.04 Mbytes/sec 50.1 Mbits/sec
R9 23.00-24.00 sec: 6.02 Mbytes/sec 50.1 Mbits/sec
R10 23.00-24.00 sec: 6.02 Mbytes/sec 50.1 Mbits/sec
R11 23.00-24.00 sec: 6.09 Mbytes/sec 51.1 Mbits/sec
R12 23.00-24.00 sec: 6.02 Mbytes/sec 50.7 Mbits/sec
R13M 23.00-24.00 sec: 30.1 Mbytes/sec 253 Mbits/sec
R14 24.00-25.00 sec: 6.01 Mbytes/sec 50.7 Mbits/sec
R15 24.00-25.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R16 24.00-25.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R17 24.00-25.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R18M 24.00-25.00 sec: 30.2 Mbytes/sec 253 Mbits/sec
R19 25.00-26.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R20 25.00-26.00 sec: 6.12 Mbytes/sec 51.3 Mbits/sec
R21 25.00-26.00 sec: 6.10 Mbytes/sec 51.1 Mbits/sec
R22 25.00-26.00 sec: 6.05 Mbytes/sec 50.8 Mbits/sec
R23 25.00-26.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R24 25.00-26.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R25M 25.00-26.00 sec: 30.4 Mbytes/sec 255 Mbits/sec
R26 26.00-27.00 sec: 6.08 Mbytes/sec 51.0 Mbits/sec
R27 26.00-27.00 sec: 5.96 Mbytes/sec 50.1 Mbits/sec
R28 26.00-27.00 sec: 6.07 Mbytes/sec 50.9 Mbits/sec
R29 26.00-27.00 sec: 6.06 Mbytes/sec 50.9 Mbits/sec
R30 26.00-27.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R31M 26.00-27.00 sec: 30.2 Mbytes/sec 254 Mbits/sec
R32 27.00-28.00 sec: 6.06 Mbytes/sec 50.9 Mbits/sec
R33 27.00-28.00 sec: 6.01 Mbytes/sec 50.4 Mbits/sec
R34 27.00-28.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R35 27.00-28.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R36 27.00-28.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R37 28.00-29.00 sec: 5.98 Mbytes/sec 50.1 Mbits/sec
R38 28.00-29.00 sec: 6.05 Mbytes/sec 50.7 Mbits/sec
R39 28.00-29.00 sec: 6.06 Mbytes/sec 50.8 Mbits/sec
R40 28.00-29.00 sec: 6.07 Mbytes/sec 50.9 Mbits/sec
R41 28.00-29.00 sec: 6.05 Mbytes/sec 50.8 Mbits/sec
R42M 28.00-29.00 sec: 30.2 Mbytes/sec 253 Mbits/sec
R43 29.00-30.00 sec: 6.02 Mbytes/sec 50.1 Mbits/sec
R44 29.00-30.00 sec: 5.99 Mbytes/sec 50.1 Mbits/sec
R45 29.00-30.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R46 29.00-30.00 sec: 6.01 Mbytes/sec 50.4 Mbits/sec
R47 29.00-30.00 sec: 6.04 Mbytes/sec 50.7 Mbits/sec
R48 29.00-30.00 sec: 59.1 Mbytes/sec 253 Mbits/sec
R49 30.00-31.00 sec: 112 Mbytes/sec 81.1 Mbits/sec
R50 30.00-31.00 sec: 237 Mbytes/sec 87.4 Mbits/sec
R51 30.00-31.00 sec: 191 Mbytes/sec 82.4 Mbits/sec
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R53M 31.00-32.00 sec: 30.3 Mbytes/sec 254 Mbits/sec

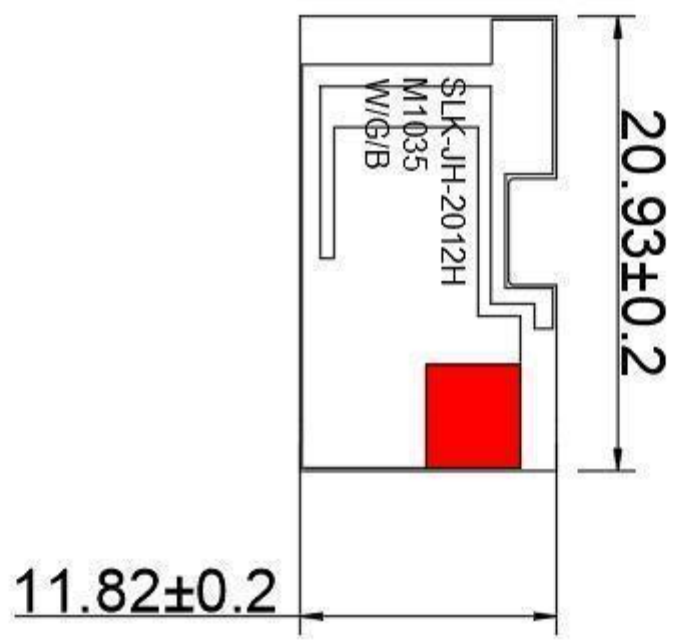
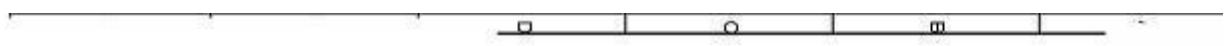
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5G upload -
average speed 254 Mbits

GPS practical Test



6. Antenna Dimensions (unit: mm)

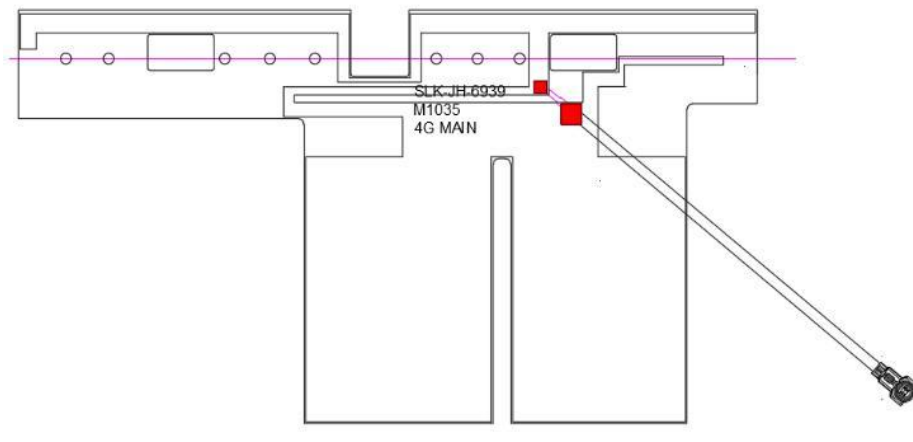


4G MAIN Antenna (6939)

1. Explanation of Product number :

S L K - J H - 6 9 3 9 - R - 1 8 5 I V - B - 0 . 8 1

1 2 3 4 5



Product Code:

(1) Customer:

JH:(2)

Project:

6939: SLK-6939 (4G MAIN antenna)

(3) Welding Position

R: Right

(4) Cable Length:

185IV: 185 * 0.81MM Fourth Generation Terminal Block

(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.

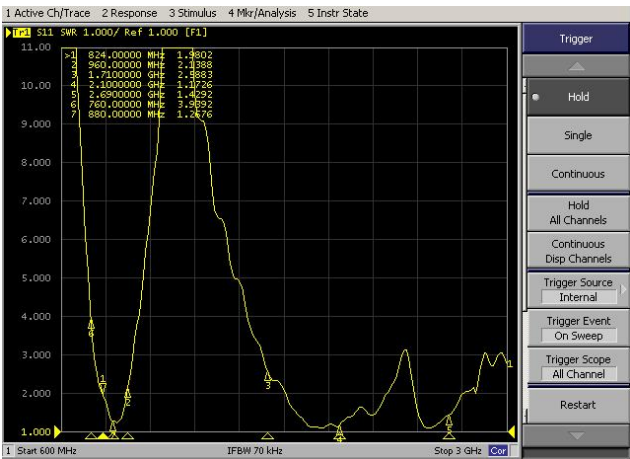
4. Electrical Specifications

4-1

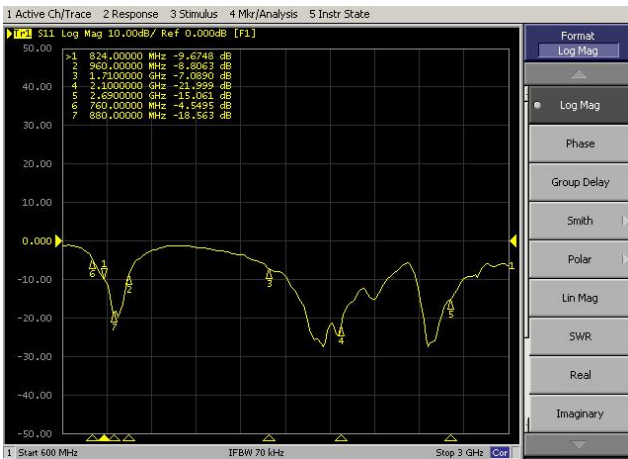
Characteristics	Specifications	Unit
Outline Dimensions	69.69x39.03 x 0.12	mm
Bandwidth(under-10dB return loss)	50min	MHz
VSWR	5max	

4-2

VSWR



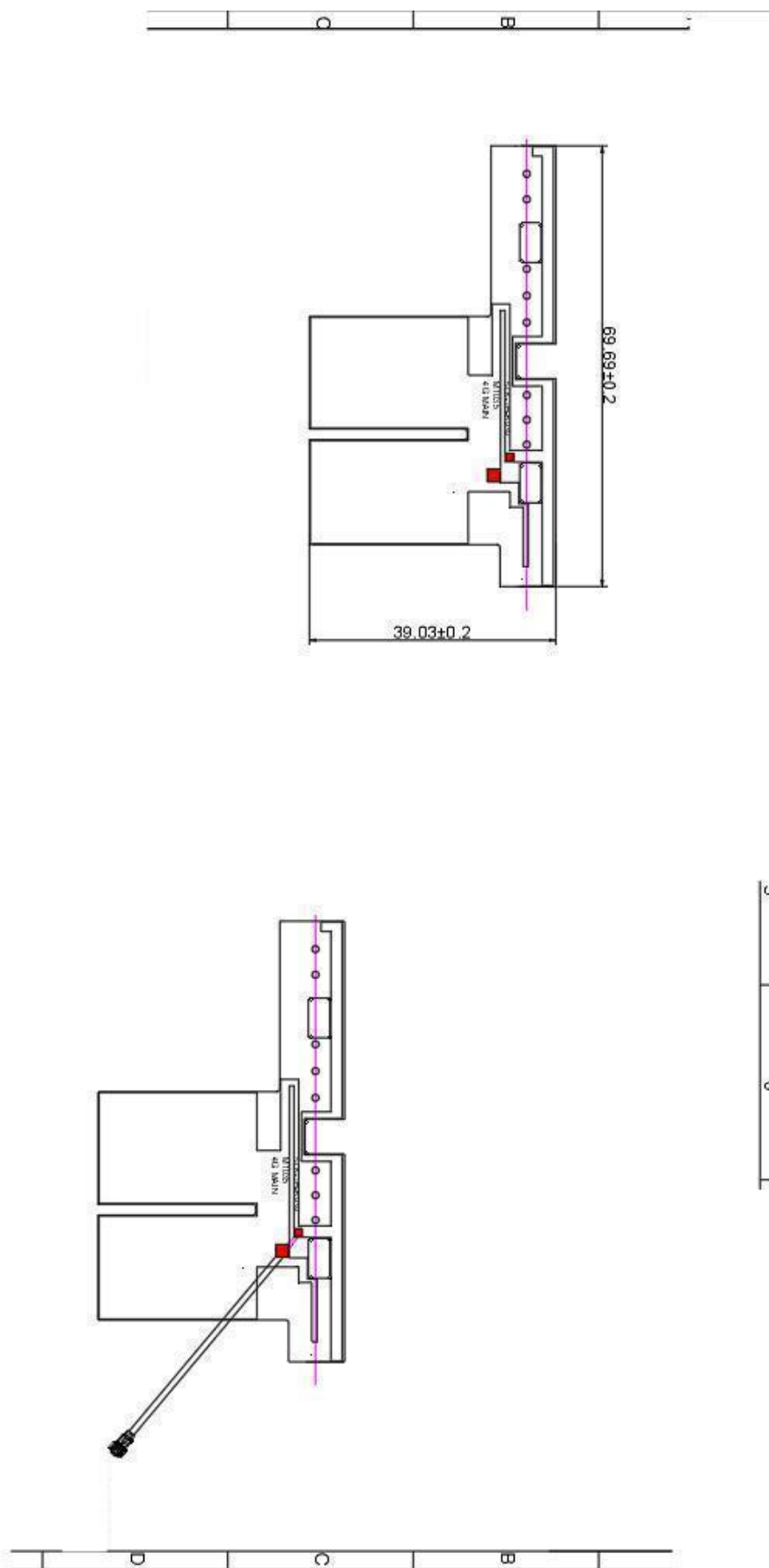
S11



4-3. 2G/3G/4G Antenna TR

2g Fre band	LTE-L	LTE-M	LTE-R	TIS	增益 (dbi)
GSM850	25.43	25.67	25.82	-102.16	0.8
DCS1800	24.32	24.55	24.49	-102.24	1.1
PCS1900	24.72	24.83	25.19	-102.48	1.3
3G Fre band	LTE-L	LTE-M	LTE-R	TIS	增益 (dbi)
WCDMA-B2	18.22	18.34	18.06	-102.49	1.3
WCDMA-B4	17.65	17.27	17.16	-102.35	1.1
WCDMA-B5	17.52	17.63	17.74	-102.27	0.8
4G Fre band	LTE-L	LTE-M	LTE-R	TIS	增益 (dbi)
LTE-2	18.62	18.91	18.87	-91.26	1.3
LTE-4	18.38	18.42	18.53	-91.29	1.1
LTE-5	17.86	17.62	17.33	-88.86	0.8
LTE-7	16.06	16.13	16.42	-90.36	1.6
LTE-12	14.72	15.27	15.75	-88.79	0.7
LTE-13		17.84		-91.38	1.1
LTE-17	14.86	15.18	15.49	-89.25	0.7
LTE-25	17.18	17.73	18.26	-91.16	1.3
LTE-26	17.35	17.27	17.06	-91.27	0.8
LTE-28	14.58	15.99	16.34	-90.41	0.7
LTE-66	18.06	18.76	18.97	-91.6	1.1
LTE-71	13.59	14.09	14.56	-87.15	0.6
LTE-41		18.71		-90.08	1.6

5. Antenna Dimensions (unit: mm)

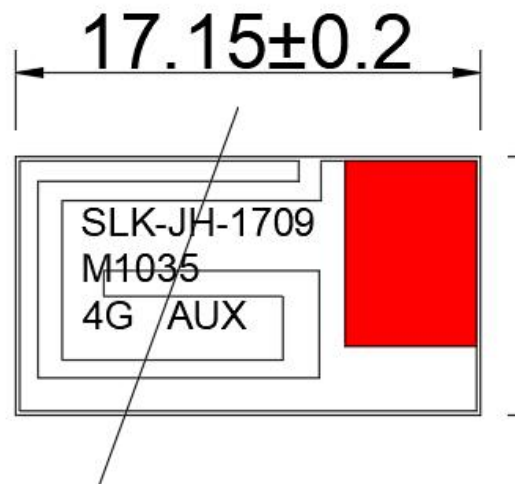


4G AUX Antenna (1610C)

1. Explanation of Product number:

S L K - J H - 1 7 0 9

1 2



Product Code:

(1) Customer:

JH:(2)

Project:

1709: SLK-1709 (4G AUX antenna)

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.

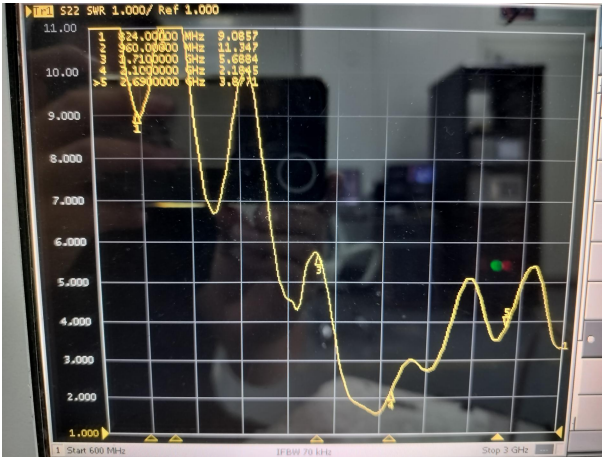
4. Electrical Specifications

4-1

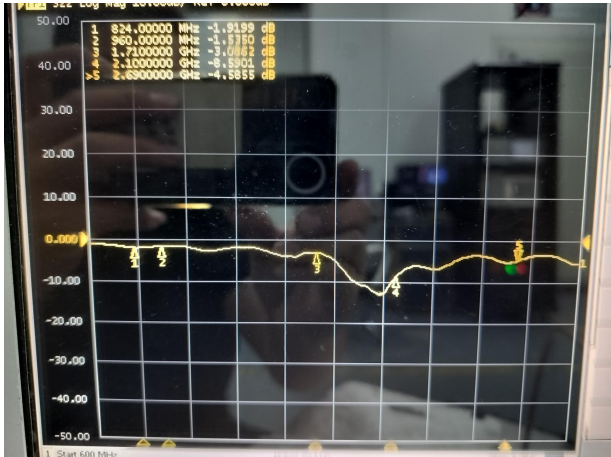
Characteristics	Specifications	Unit
Outline Dimensions	17.15x 9.5x 0.12	mm
Bandwidth(under-10dB return loss)	50min	MHz
VSWR	5max	

4-2

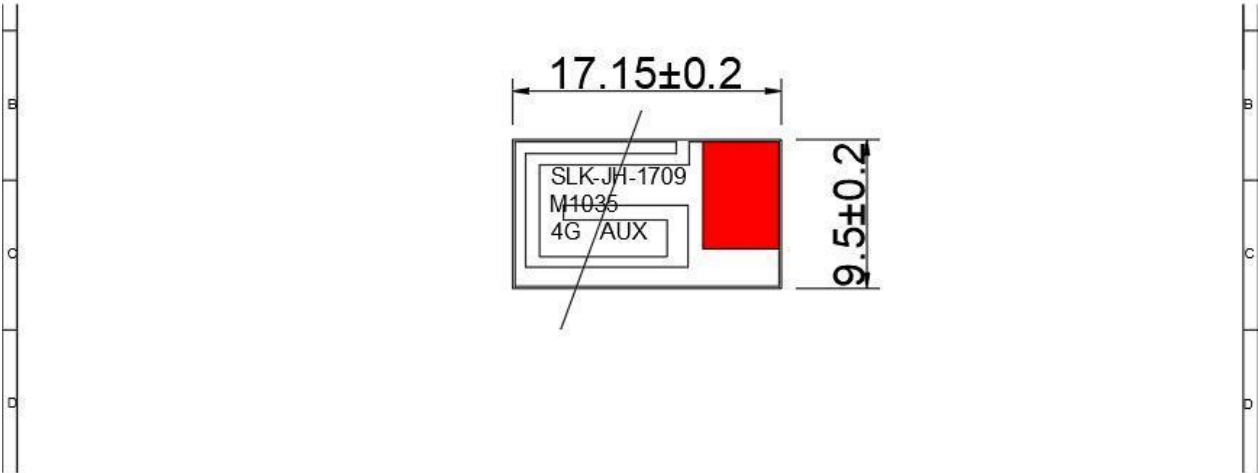
VSWR



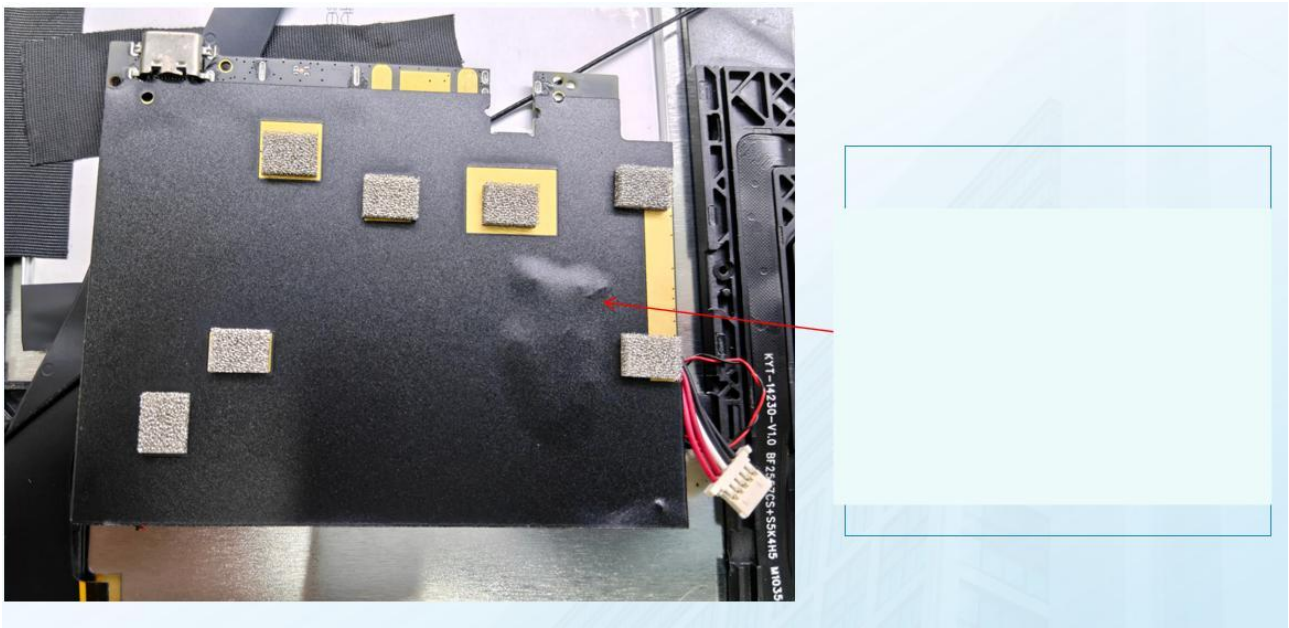
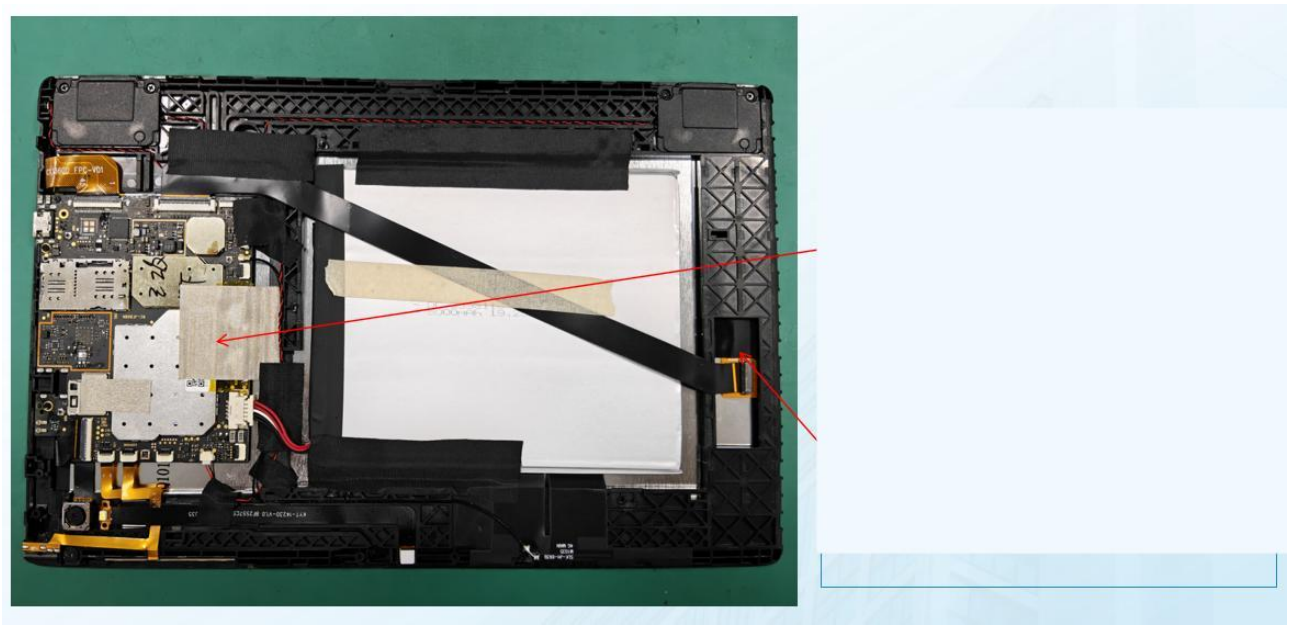
S11

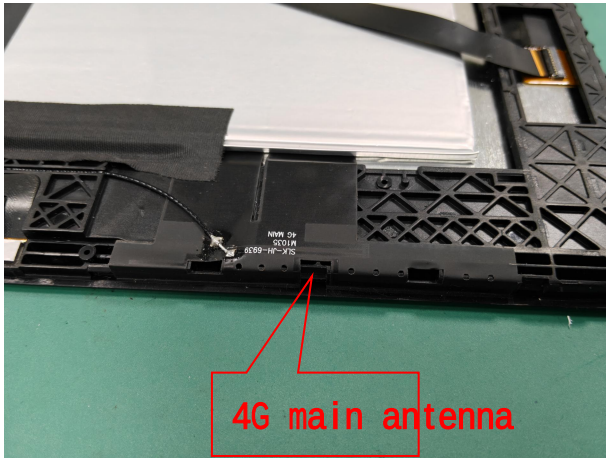


5. Antenna Dimensions (unit: mm)

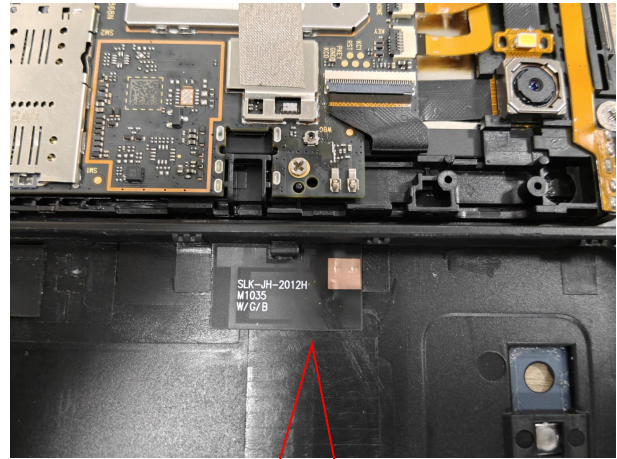


6. Antenna Picture

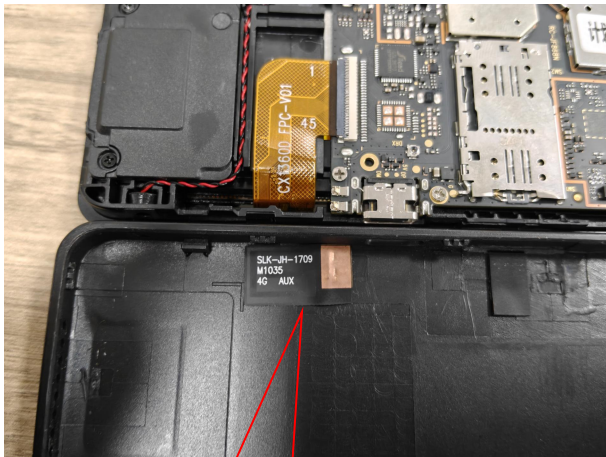




4G main antenna



WIFI/GPS Antenna



4G Diversity Antenna