

品名 : **GH6322-4IN1ANT-V2.0**

History List

[illegible]

GH6021-4IN1ANT-V1.0 **Specification**

1. Explanation of part number :

GH6021 – 4IN1ANT – V1.0
(1) (2) (3)

(1) Model Name : GH6021

(2) Frequency : 1575Mhz, 2400-2500MHz, 5150-5850MHz

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS&BT&WIFI	1575Mhz, 2400-2500MHz, 5150-5850MHz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES = $\pm$

HOLEDIA = ±



深圳市可信华成通信科技有限公司

SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

SCALE :

UNIT : mm

DRAWN BY: 彭智铭

CHECKED BY: 何亮

DESIGNED BY : 周顺添

APPROVED BY: 王伟

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN
HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT
BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR
SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

TITLE : GH6021-4IN1ANT-V1.0Specification

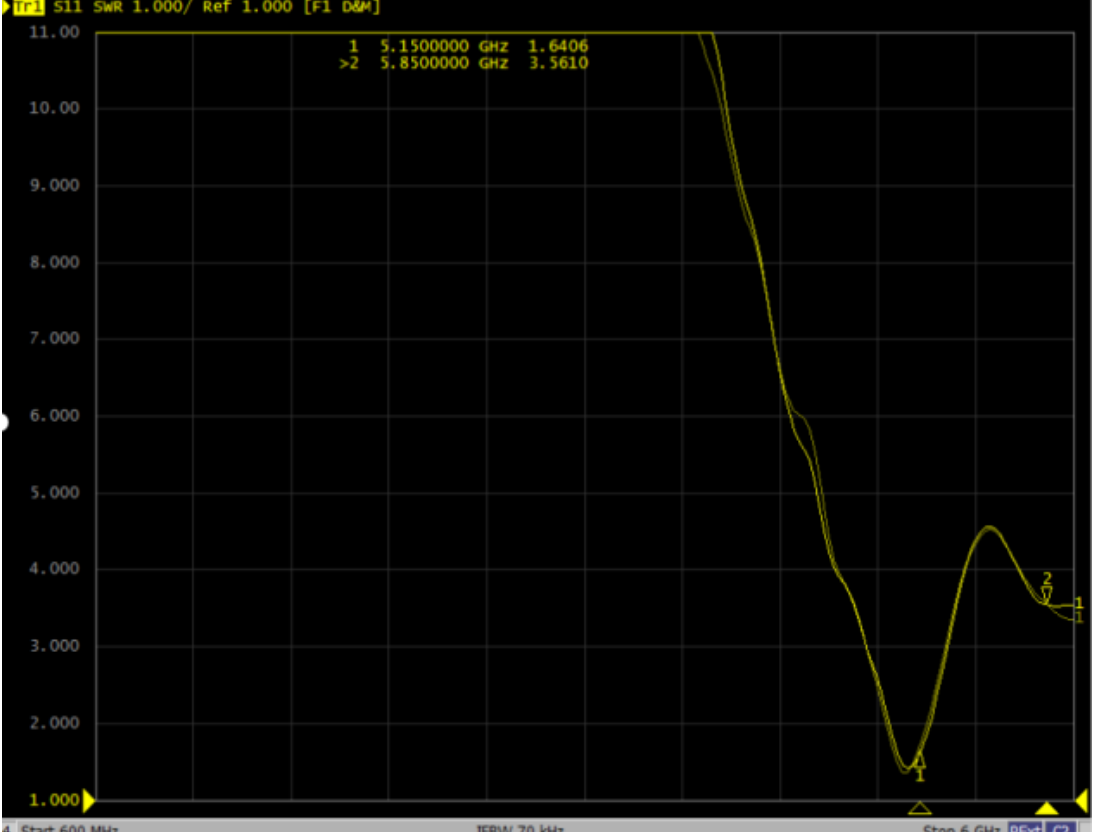
DOCUMENT NO.

PAGE	REV.
------	------

A0

2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	1575	2400	2500	5150	5950
2-3-1. Typical Value:	≤ 2	≤ 2	≤ 2	≤ 3.0	≤ 3.5
2-3-2Measuring Method	1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.				
2-3-3Picture					

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 彭智铭

CHECKED BY : 何亮

DESIGNED BY : 周顺添

APPROVED BY : 王伟

TITLE : GH6021-4IN1ANT-V1.0Specification

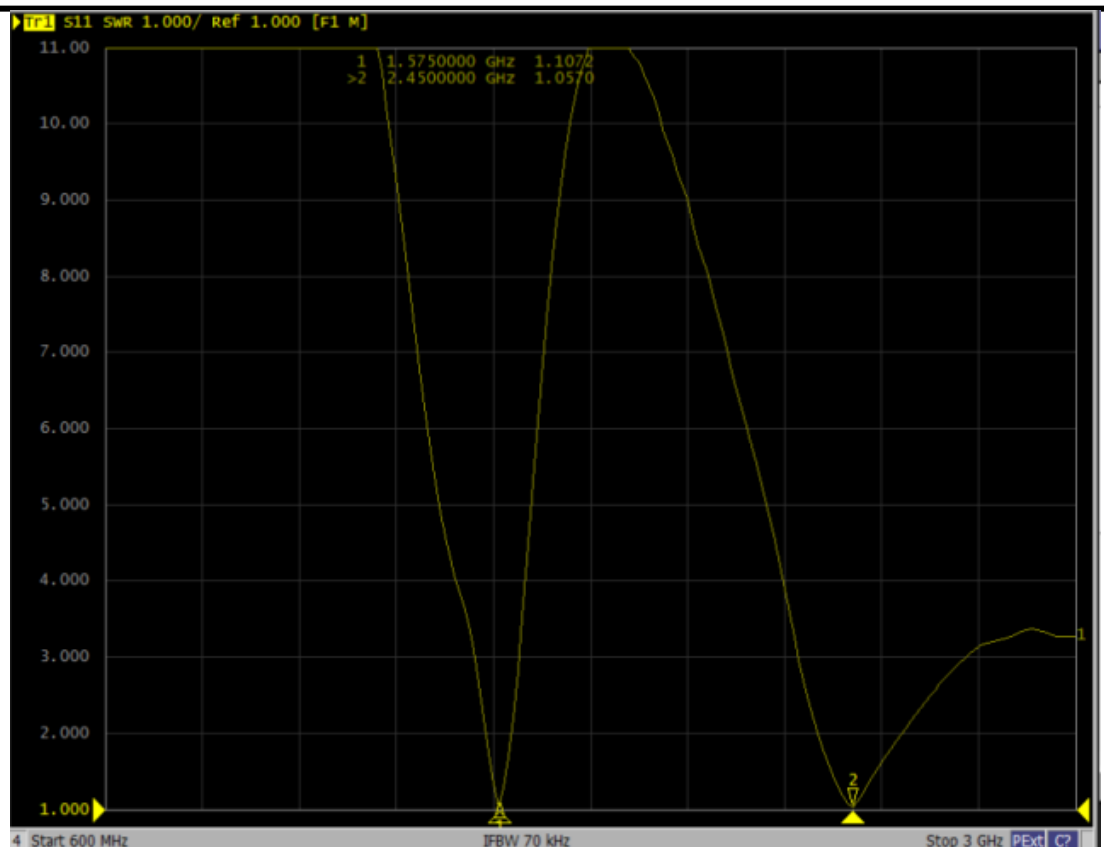


深圳市可信华成通信科技有限公司
SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

PAGE REV.
A0



2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 彭智铭

CHECKED BY : 何亮

DESIGNED BY : 周顺添

APPROVED BY : 王伟

TITLE : GH6021-4IN1ANT-V1.0Specification



深圳市可信华成通信科技有限公司

SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

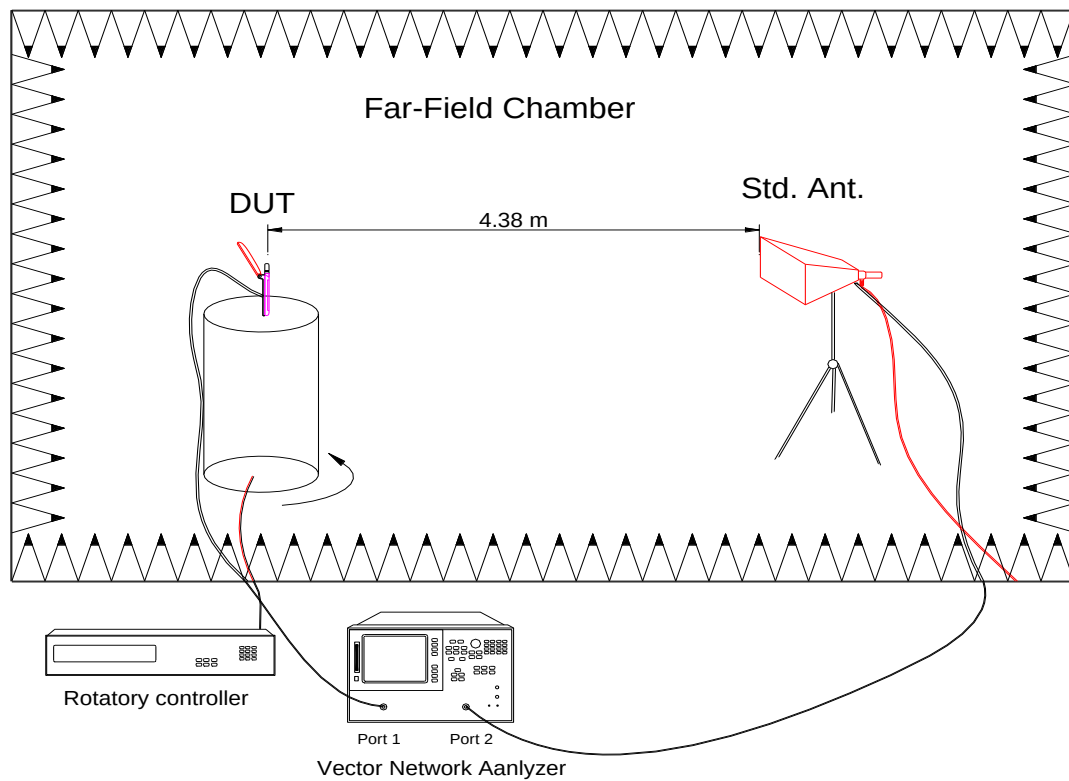
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

PAGE REV.

A0

2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : 彭智铭 CHECKED BY : 何亮

DESIGNED BY : 周顺添 APPROVED BY : 王伟

TITLE : **GH6021-4IN1ANT-V1.0**Specification



深圳市可信华成通信科技有限公司
SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

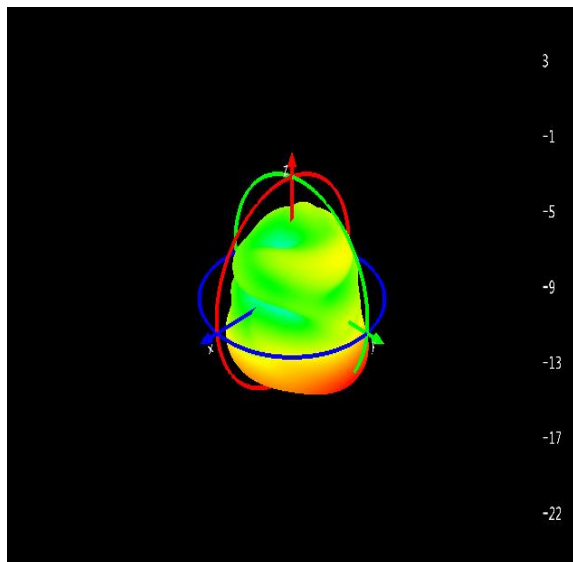
PAGE REV.
A0

2-4-3 Antenna Efficiency

GPS				2.4G WIFI				5G WIFI			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1550	2.06	-4.9	32.2	2400	1.59	-4.5	35.2	5150	0.68	-4.2	37.8
1555	2.03	-4.8	32.9	2410	2.09	-4.2	37.8	5200	0.37	-4.4	36.3
1560	2.15	-4.7	33.6	2420	2.22	-4.2	38.1	5250	-0.06	-5.0	31.3
1565	2.18	-4.7	33.9	2430	2.37	-4.2	37.7	5300	-0.53	-5.5	28.4
1570	2.17	-4.7	33.7	2440	2.82	-4.0	39.9	5350	0.1	-5.8	26.1
1575	2.13	-4.8	32.8	2450	2.97	-3.8	41.5	5400	-0.41	-6.3	23.5
1580	1.93	-5.0	31.5	2460	2.74	-3.9	40.6	5450	-0.59	-6.7	21.2
1585	1.71	-5.2	30.2	2470	2.65	-4.0	40.3	5500	0.19	-6.9	20.6
1590	1.6	-5.3	29.6	2480	2.86	-3.9	40.8	5550	-0.16	-6.7	21.6
1595	1.28	-5.6	27.6	2490	2.72	-4.0	40.0	5600	-0.11	-6.8	21.0
1600	1.09	-5.8	26.1	2500	2.84	-3.9	40.4	5650	0.26	-6.7	21.6
								5700	0.36	-7.0	20.0
								5750	1.4	-6.4	23.0
								5800	2.04	-6.2	24.0
								5850	1.86	-6.5	22.5

3. 3D Radiation Pattern

GPS [1575MHz]



BT/WiFi 2.4GHz C0 [2400MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY : 彭智铭 CHECKED BY : 何亮

DESIGNED BY : 周顺添 APPROVED BY : 王伟

TITLE : **GH6021-4IN1ANT-V1.0**Specification

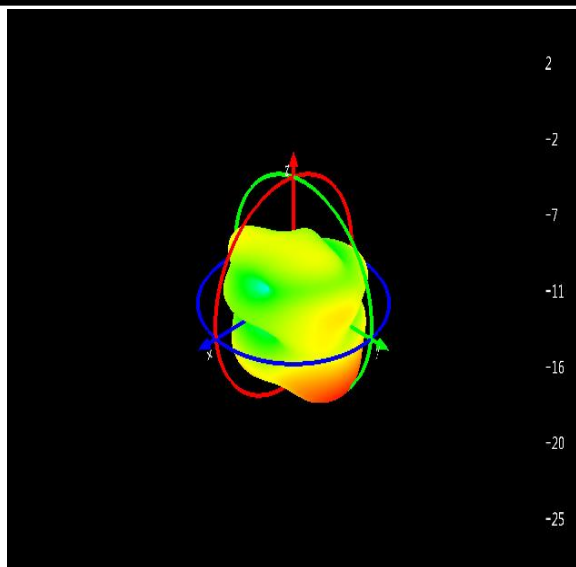


深圳市可信华成通信科技有限公司
SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

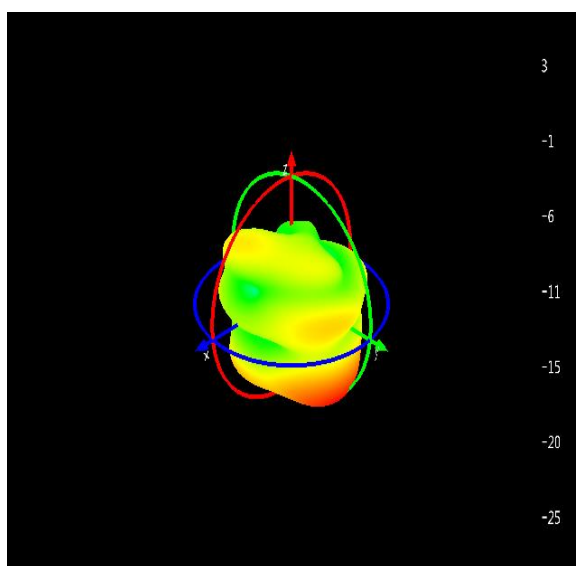
THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT
NO.

PAGE REV.
A0

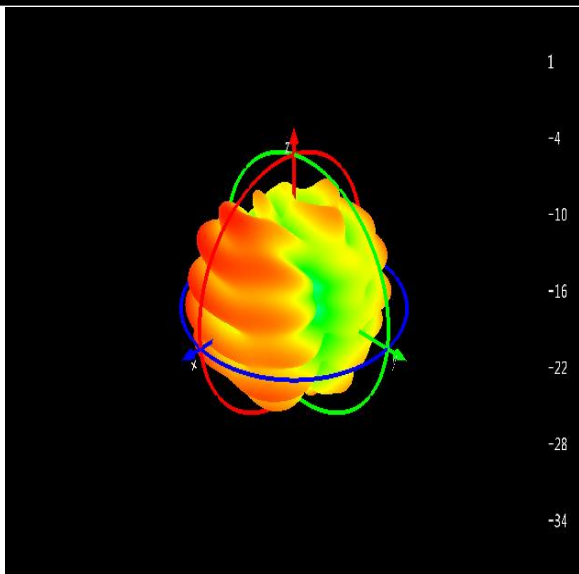


BT/WiFi 2.4GHz C0 [2500MHz]

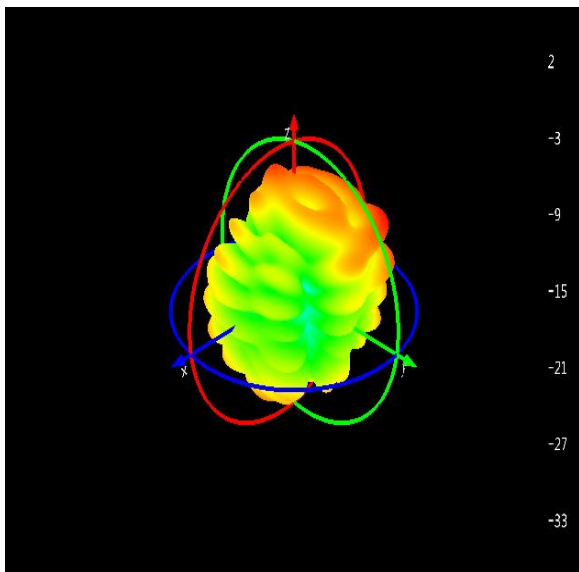


WiFi 5GHz [5150MHz]

UNLESS OTHER SPECIFIED TOLERANCES ON :		 深圳市可信华成通信科技有限公司 SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD	
X=±2 X.X=±0.1 X.XX=±0.05 ANGLES=±			

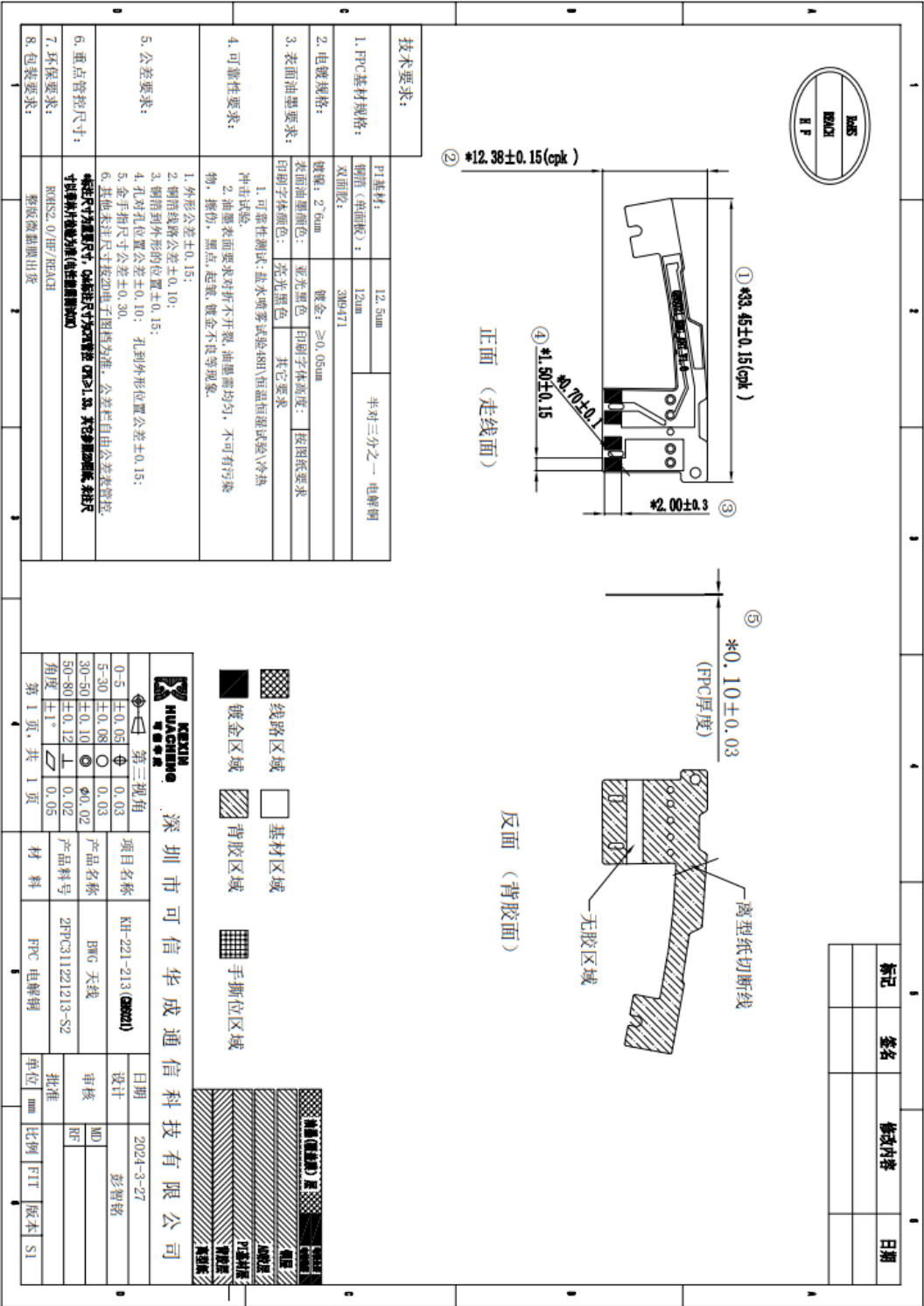


WiFi 5GHz [5850MHz]



UNLESS OTHER SPECIFIED TOLERANCES ON :		 深圳市可信华成通信科技有限公司 SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD	
X=±2	X.X=±0.1		
ANGLES=±		HOLEDIA=±	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : 彭智铭	CHECKED BY : 何亮		
DESIGNED BY : 周顺添	APPROVED BY : 王伟		
TITLE : <u>GH6021-4IN1ANT-V1.0</u> Specification		DOCUMENT NO.	PAGE REV. A0
PAGE 7 OF 5			

4. Antenna Dimensions:



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 彭智铭

CHECKED BY : 何亮

DESIGNED BY : 周顺添

APPROVED BY : 王伟

TITLE : GH6021-4IN1ANT-V1.0Specification



深圳市可信华成通信科技有限公司

SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT NO.

PAGE REV. A0