

深圳市创科华科技有限公司

Shenzhen Chuangkehua Technology Co., LTD

承认书

SPECIFICATION FOR APPROVAL

客户

CUSTOMER

RuiXingHengFang Network(Shenzhen) Co., Ltd.

品名

DEACRIPTION

GN1S067

物料编码:

PART NO

物料描述:

SPECIFICATIO

APPROVED BY	SIGNATURE	DATE
Mechanical Engineer:	Zhou	2023-08-15
RF Engineer:	Chen	2023-08-15
Engineering Manager:	Wang	2023-08-15
Approved By Customer (as required):		

1.0 DESCRIPTIONS AND PART NUMBER:

1.1 DESCRIPTION;

The antenna mounts to the housing of the cellular phone. And after that, the feed point on the prolongation of metal plate should firmly touch the contact provided on the PCB in the respective area.

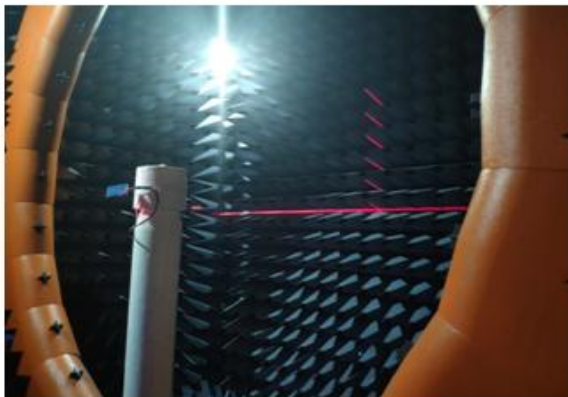
1.2 PART NUMBER

Part number	Frequency Band	HH Part Number
	LoRa: 470Mhz~510Mhz 868Mhz~930Mhz	

2.0 FREQUENCY BAND



2.1 ACTIVE TEST REPORT



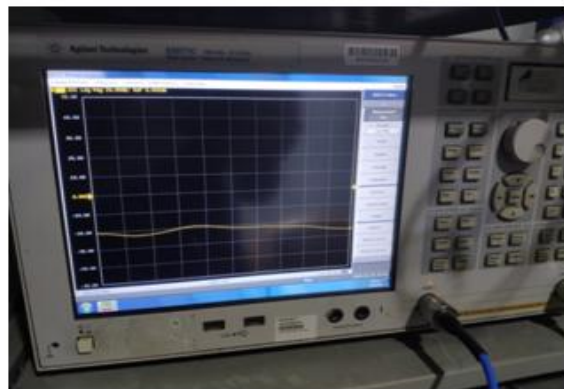
7*4*3M 3D微波暗室



MT8820C

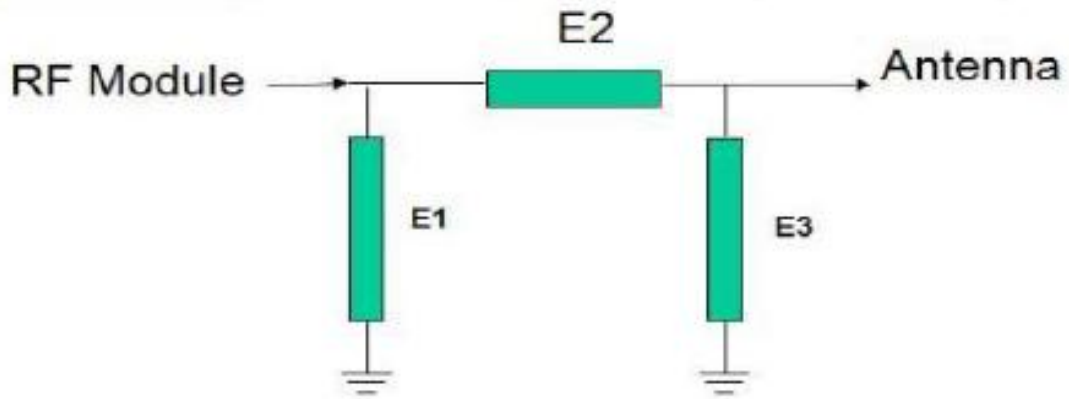


Agilent 8960

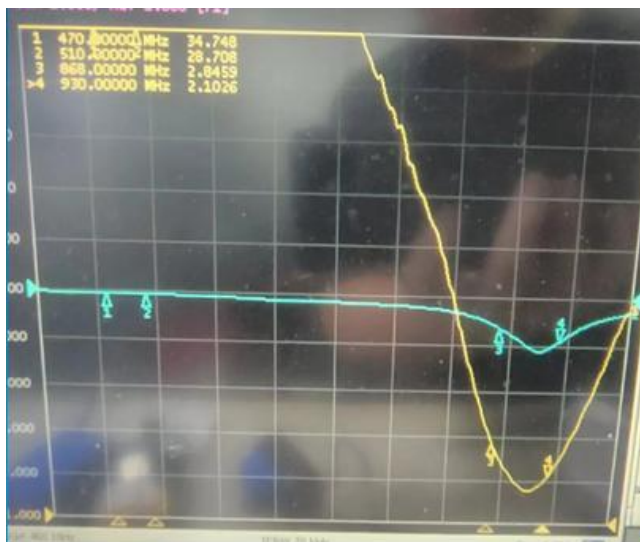


Agilent E5071C

Element	E1	E2	E3
Value	/	/	/

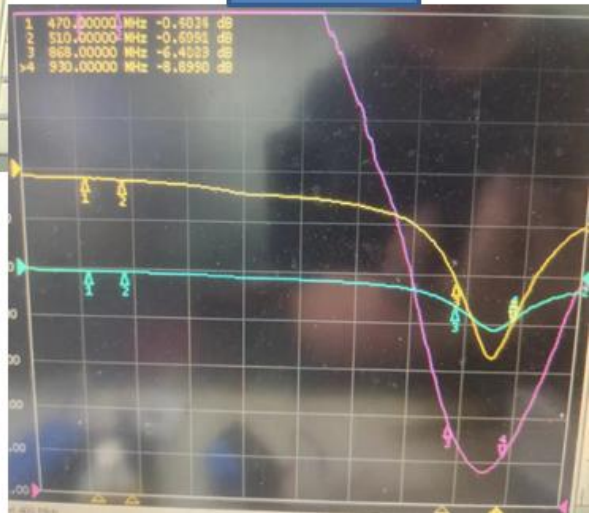


3.0 MECHANICAL SPECIFICATIONS;



驻波图

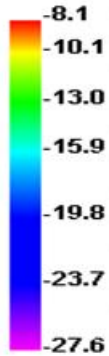
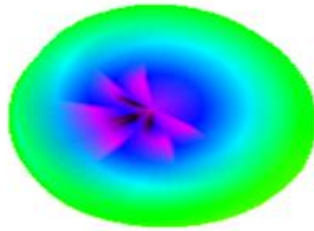
驻波回损图



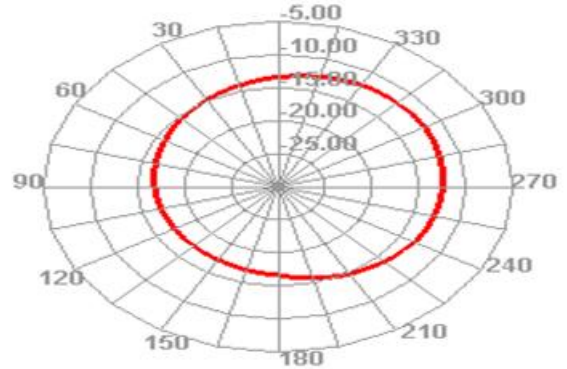
470Mhz~510Mhz无源数据

Passive Test For 470										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
450	8.74	-10.13	-5	-7.15	1.753	7.942	-5	-22.92	35.3	35.2
460	11.52	-12.26	-8.15	-10.3	1.648	4.299	-8.15	-27.59	33.92	34.49
470	12.7	-12.1	-8.24	-10.39	1.844	4.323	-8.24	-31.05	34.24	33.85
480	9.69	-10.13	-5	-7.15	1.753	7.942	-5	-22.92	35.3	35.2
490	12.7	-8.96	-4.4	-6.55	4.126	8.57	-4.4	-17.51	35.41	35.32
500	13.36	-8.74	-3.93	-6.08	4.28	9.084	-3.93	-18.19	35.34	35.51
510	12.63	-8.98	-4.31	-6.46	3.878	8.755	-4.31	-18.15	35.26	35.76
520	11.89	-9.25	-4.99	-7.14	3.935	7.954	-4.99	-18.01	35.83	34.81
530	12.7	-8.96	-4.4	-6.55	4.126	8.57	-4.4	-17.51	35.41	35.32
540	13.36	-8.74	-3.93	-6.08	4.28	9.084	-3.93	-18.19	35.34	35.51
550	12.63	-8.98	-4.31	-6.46	3.878	8.755	-4.31	-18.15	35.26	35.76

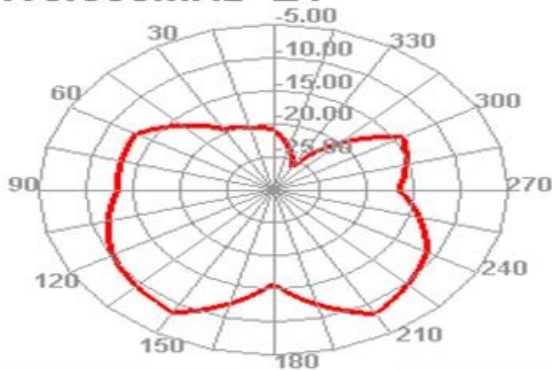
460.000MHz



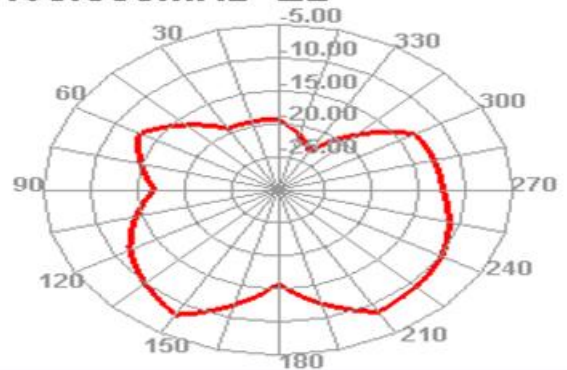
460.000MHz H



460.000MHz E1

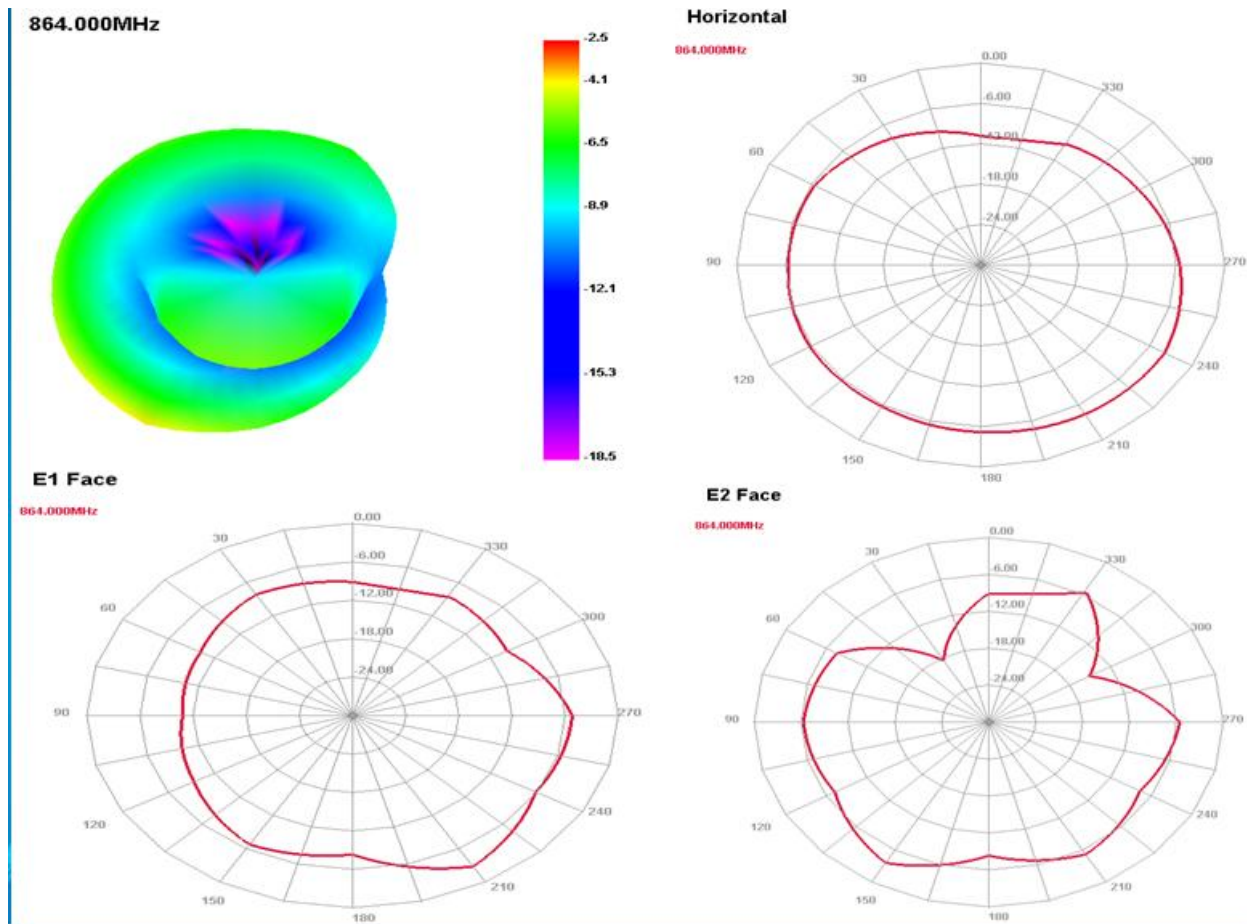


460.000MHz E2



868Mhz~930Mhz无源数据

Passive Test For 低频										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
800	25.37	-5.96	-2.21	-4.36	11.358	14.013	-2.21	-15.94	38.12	37.11
808	21.94	-6.59	-2.21	-4.36	9.611	12.327	-2.21	-18.43	37.74	36.98
816	22.93	-6.4	-2.04	-4.19	9.995	12.93	-2.04	-18.8	37.51	36.89
824	24.54	-6.1	-1.4	-3.55	10.82	13.719	-1.4	-18.45	37.41	36.91
832	23.54	-6.28	-1.05	-3.2	8.447	15.092	-1.05	-15.43	37.42	37.09
840	21.57	-6.66	-1.74	-3.89	8.263	13.308	-1.74	-16.11	37.5	37.39
848	20.25	-6.94	-1.95	-4.1	7.651	12.598	-1.95	-17.03	37.73	37.51
856	19.54	-7.09	-2.33	-4.48	7.43	12.108	-2.33	-18.69	37.99	37.89
864	19.72	-7.05	-2.46	-4.61	7.351	12.364	-2.46	-18.47	38.27	38.12
872	20.87	-6.8	-1.94	-4.09	7.747	13.124	-1.94	-17.96	38.43	38.21
880	21.95	-6.59	-1.09	-3.24	7.848	14.099	-1.09	-16.74	38.26	38.56
888	23.74	-6.25	-0.37	-2.52	8.202	15.539	-0.37	-15.96	38.48	38.24
896	22.68	-6.44	-0.32	-2.47	7.445	15.234	-0.32	-15.97	38.16	38.21
904	24.03	-6.19	-0.6	-2.75	8.51	15.519	-0.6	-15.51	37.95	38.23
912	22.9	-6.4	-1.04	-3.19	8.491	14.411	-1.04	-16.79	38.06	38.28
920	25.09	-6.01	-0.99	-3.14	9.992	15.096	-0.99	-18.81	38.25	38.53
928	21.79	-6.62	-1.58	-3.73	9	12.789	-1.58	-20.98	38.19	38.55
936	23.12	-6.36	-1.16	-3.31	9.669	13.455	-1.16	-19.83	38.26	38.56
944	22.82	-6.42	-1.23	-3.38	9.815	13.001	-1.23	-19.47	38.4	38.58
952	24.96	-6.03	-0.73	-2.88	10.681	14.276	-0.73	-18.36	38.48	38.59
960	24.79	-6.06	-1.18	-3.33	11.057	13.731	-1.18	-19.23	38.35	38.57



3.1 MECHANICAL CONFIGURATION

The appearance of the antenna is in accordance with drawing 40-SZ2618Q-01

3.2 CONNECTOR TYPE

The connector type is an embedded type.

FIGURE 2:Antenna Configuration

4.0 ENVIRONMENTAL SPECIFICATIONS

环境处理：

Wu

4.1 TEMPERATURE

Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Storage Temperature Range: $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$

4.2 SALT SPRAY TEST

Antenna be exposed in a 35°C , 5% salt fog chamber for 24 hours then check the appearance and performance against the specifications in normal temperature.

4.3 STATIC HUMIDITY TEST

The antenna is subjected to the following test:

Temperatures: $+70^{\circ}\text{C}$ and 90%--95%RH

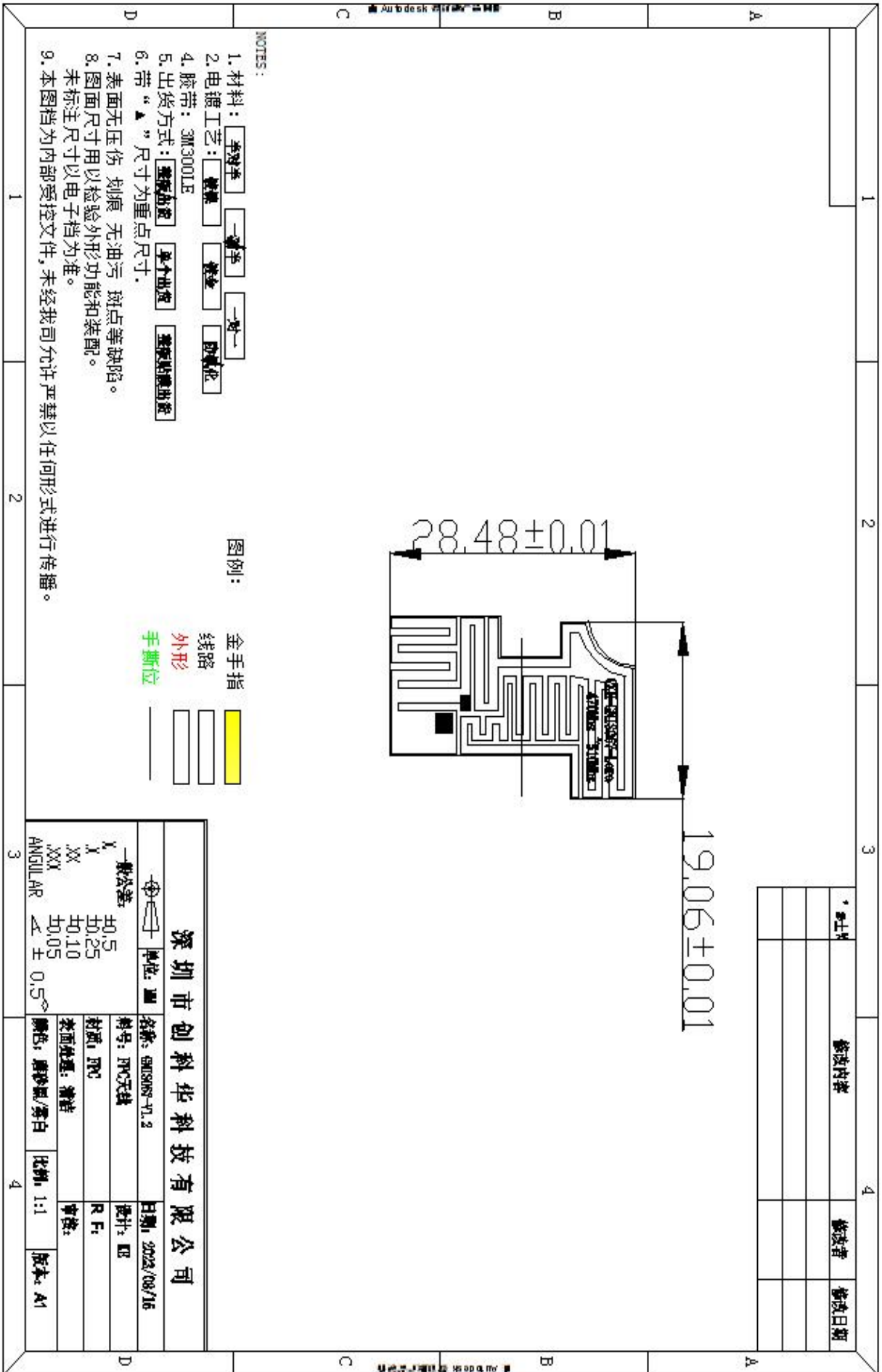
Test Duration: 24 Hours

The antenna should not undergo any structural or functional change and remain within the electrical/mechanical specification.

5.0 PACKAGING

The antennas will be packed in bags, There are 100 or 200 antennas per bag. The bags are packed in corrugated fibreboard over box.

天线图纸:



NOTES:

1. 材料： 半铜半 全铜半 全铜
2. 电镀工艺： 镀镍 镀金 镀银
4. 胶带：3M3001E
5. 出货方式： 整板出货 单个出货 整板整盘出货
6. 带“▲”尺寸为重点尺寸。
7. 表面无压伤 划痕 无油污 斑点等缺陷。
8. 图面尺寸用以检验外形功能和装配。
未标注尺寸以电子档为准。
9. 本图档为内部受控文件，未经我司允许严禁以任何形式进行传播。

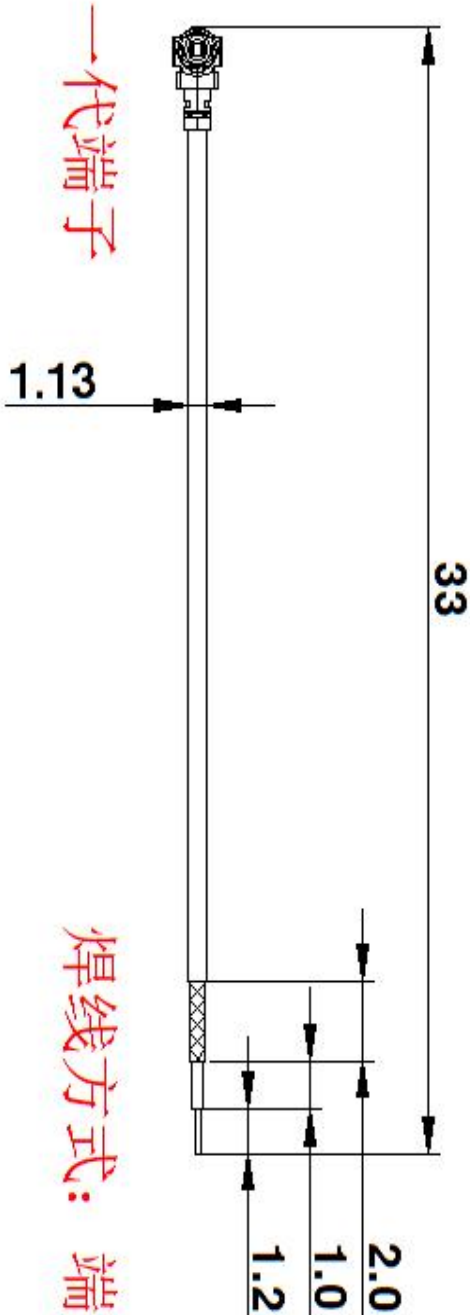
图例：

- 金手指
- 线路
- 外形
- 手撕位

深圳市创科华科技有限公司			
名称: GN1S067-V1.2	料号: PVC无线	日期: 2023/09/16	设计: EB
规格: ± 0.5	材料: PVC	表面处理: 喷锡	审核:
XX ± 0.25	颜色: 磨砂黑/雾白	比例: 1:1	版本: A1
XXX ± 0.10			
ANGULAR ± 0.05			
± 0.5			

修订内容	修改者	修改日期

GNIS0678/Lora



技术要求:
2: 没有标注尺寸参见CAD图纸,
公差保证在+0.50/-0以内

REVISION CHANGES			
REV	DESCRIPTION	AUTH	DATE

TOLERANCE		SIGNATURE		DATE	
LINEAR	ANGLE	DESIGNED			
>100	± 0.13	STANDARDIZED			
50-100	± 0.08	CHECKED			
00-50	± 0.05	APPROVED			
SCALE	SCALE				

深圳市创科华科技有限公司	DATE: 2023-08-15
PART: GNIS067-焊线	DWG NO:
	REV:
	SIZE: A4