

承 认 书
SPECIFICATION FOR
APPROVAL

客户
CUSTOMER Shenzhen Mili Automotive Electronics Co., Ltd.

品名
DESCRIPTION WiFi 天线-M8001

物料编码:
PART NO A-ANT-M8001-050

物料描述:
SPECIFICATIO CKH-M8001-WIFI/2.4G,线长 120MM,一代端子,焊线

APPROVED BY	SIGNATURE	DATE
Mechanical Engineer:	Zhou	2023-12-05
RF Engineer:	Chen	2023-12-05
Engineering Manager:	Wang	2023-12-05
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.

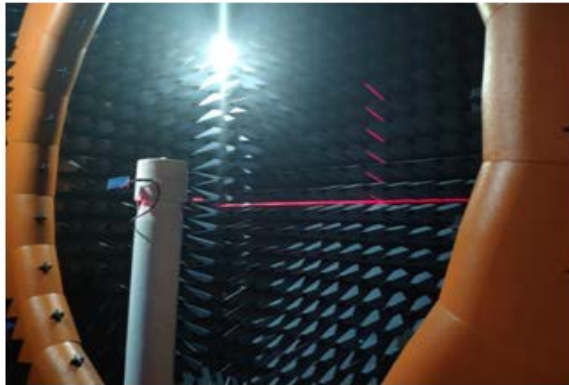
1.2 PART NUMBER

Part number	Frequency Band	HH Part Number
	4G/三合一 2.4G/5G/分集天线	

2.0 FREQUENCY BAND

2.4GWIFI

2.1 ACTIVE TEST REPORT



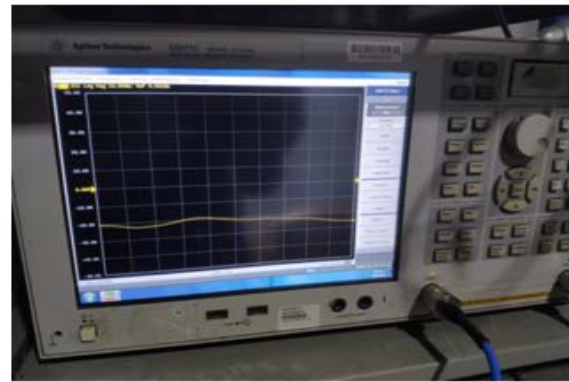
7*4*3M 3D微波暗室



MT8820C



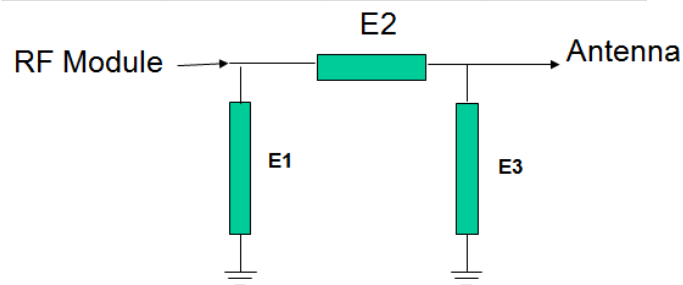
Agilent 8960



Agilent E5071C

匹配电路（无改动，原机器匹配）

Element	E1	E2	E3
Value	/	/	/

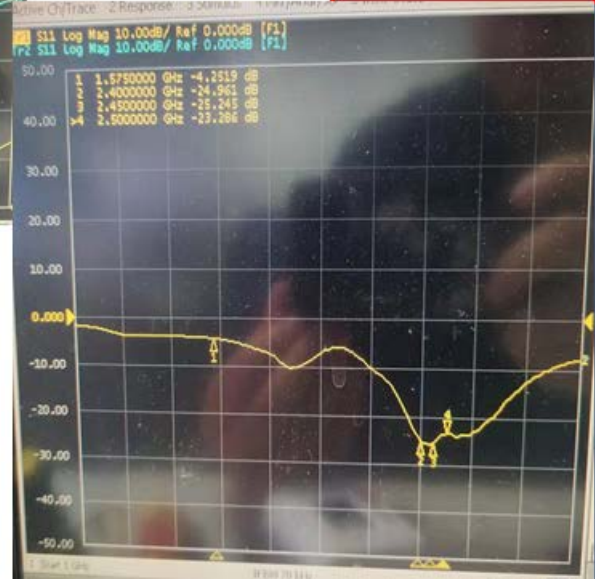


3.0 MECHANICAL SPECIFICATIONS:



驻波图

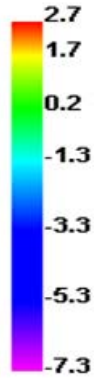
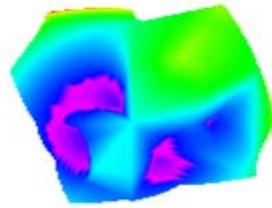
驻波回损图



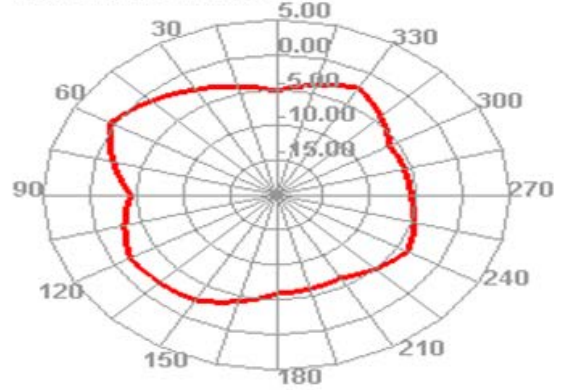
2.4G无源数据

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)
2400	53.54	-2.71	2.69	0.54	19.492	34.052	2.69	-12.8	5.4	30
2410	54.29	-2.65	2.61	0.46	20.203	34.085	2.61	-14.41	5.26	30
2420	53.84	-2.69	2.27	0.12	20.785	33.051	2.27	-10.59	4.95	30
2430	49.48	-3.06	1.51	-0.64	20.047	29.43	1.51	-11.17	4.57	0
2440	49.2	-3.08	1.11	-1.04	20.545	28.657	1.11	-12.28	4.19	30
2450	48.62	-3.13	0.72	-1.43	21.471	27.153	0.72	-15.32	3.85	30
2460	48.82	-3.11	0.43	-1.72	22.612	26.21	0.43	-15.23	3.55	60
2470	49.56	-3.05	0.33	-1.82	24.105	25.458	0.33	-16.18	3.37	120
2480	52.29	-2.82	0.64	-1.51	26.415	25.875	0.64	-16.19	3.45	120
2490	53.4	-2.72	0.68	-1.47	27.686	25.714	0.68	-13.16	3.4	120
2500	48.33	-3.16	0.5	-1.65	25.571	22.762	0.5	-12.66	3.66	120

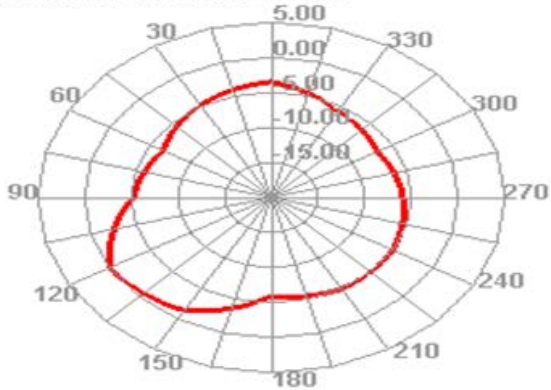
2400.000MHz



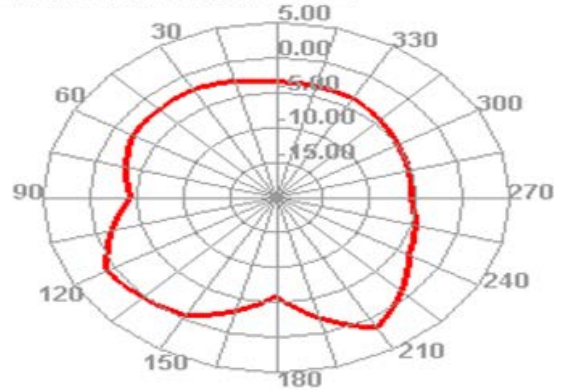
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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

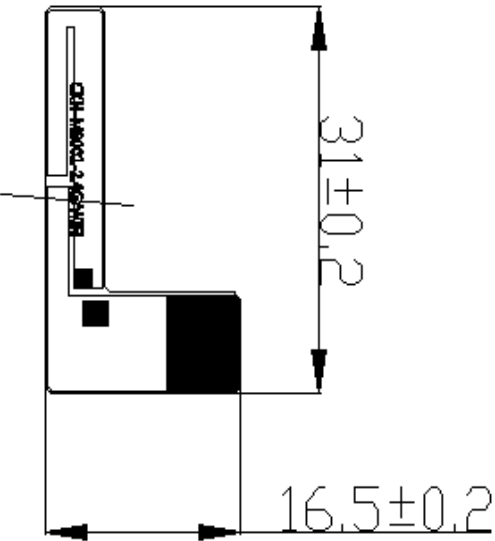
The antenna should not undergo any structural or functional change and remain within the electrical/mechanical specification.

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:

修改内容	修改者	修改日期



NOTES:

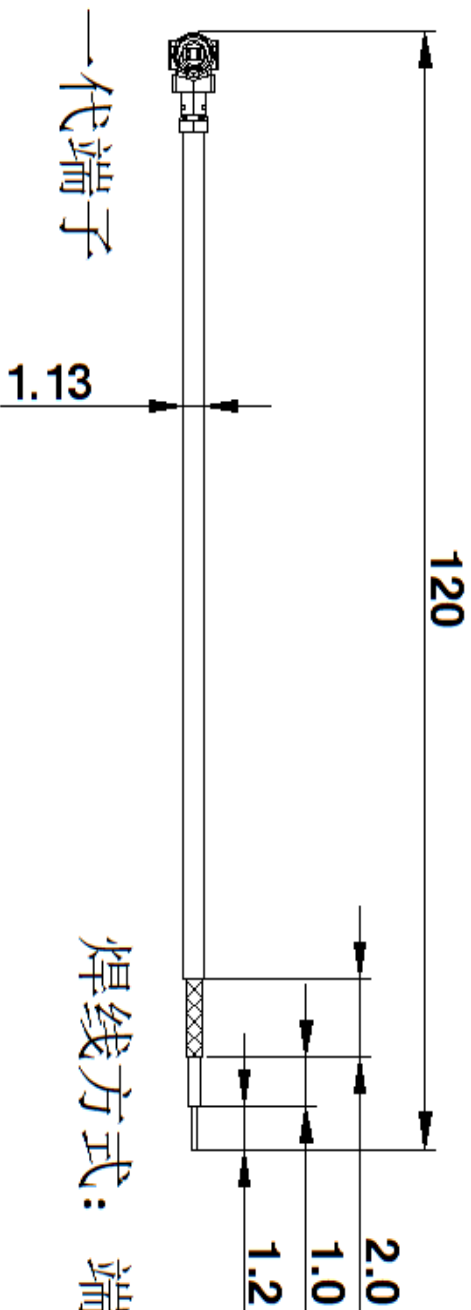
1. 材料: 半对半 一一对一 对一
2. 电镀工艺: 镀金 镀镍 抗氧化
4. 胶带: 3M3001LE
5. 出货方式: 整版出货 单个出货 整版附盘出货
6. 带“▲”尺寸为重点尺寸.
7. 表面无压伤 划痕 无油污 斑点等缺陷。
8. 图面尺寸用以检验外形功能和装配。
9. 未标注尺寸以电子档为准。
9. 本图档为内部受控文件, 未经我司允许, 严禁以任何形式进行传播。

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: WSK01	日期: 2023/12/05
料号: PVC无线	设计: ES
材质: PVC	RF:
表面处理: 喷油	审核:
颜色: 磨砂黑/雪白	比例: 1:1
版本: A1	

M8001/WIFI



焊线方式：端子朝下

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	CHECKED	DATE	DATE
>10.0	± 0.13	STANDARDIZED			
5.0~10.0	± 0.08	CHECKED			
0.0~5.0	± 0.05	APPROVED			

深圳市创科华科技有限公司
PART M8001-同轴线
DATE: 2023-12-05

DATE	DWG. NO.	REV.	SIZE/A4