



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2022/10/24
编号 File No	22102408
版本 Revision	1.0

客户
CUSTOMER: Autel Robotics Co., Ltd.

客户料号
CUSTOMER NO: 501006482

品名
PART NAME: 内置WIFI_R Antenna

供方料号
SUPPLIER NO: YJI01.005.070.308A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City

RoHS

Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

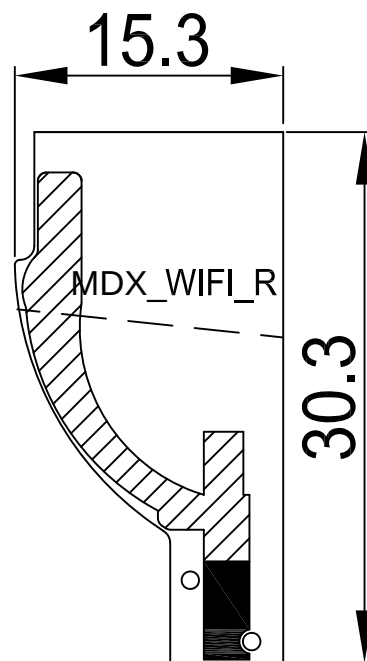
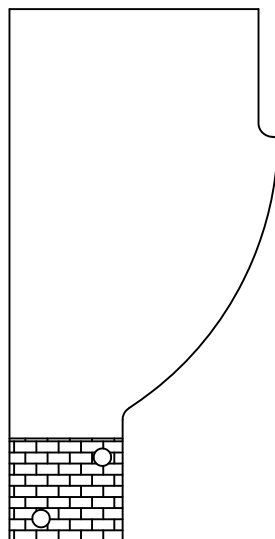
DATE

A

首次发行

2022-10-24

B



PI补强含离型纸0.40



布线区



露铜区



补强区

备注:

1. 材质: 一对半PI基材, 铜箔厚度0.5oz, 成品厚度不含离型纸: 0.1mm。
2. 颜色/表面处理: 单面黑色油墨、白色丝印。
露铜区镀金处理, 反面3M9471背胶、离型纸带分割线。
3. 尺寸: 带*为重点尺寸。
4. 公差: 未标注公差参照标准公差。



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Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel :0769-82586086 Fax:0769-82586086

PART NAME: WIFI Antenna

PART NO.: YJ101.005.070.308A

DATE: 2022-10-24

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

殷涛

黄志林

陈兴易

UNITS: mm

SCALE: 1/1

REVISION: C

X.X ±0.50

X.XX±0.15

X° ±3°



天线规格

Antenna Specification

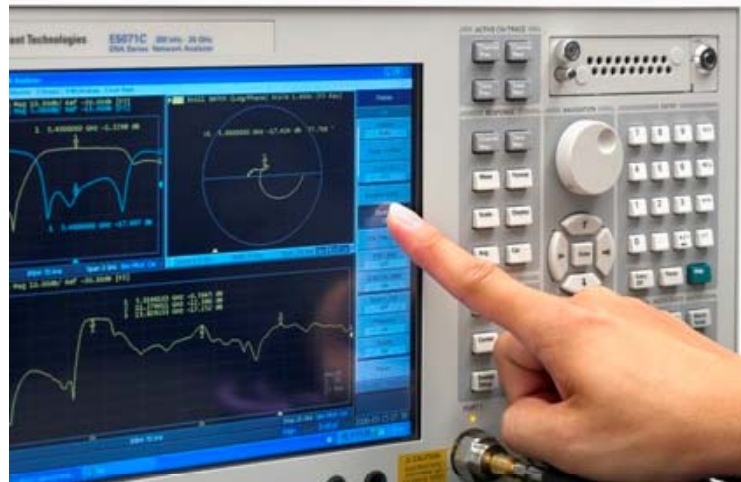
Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 3.0 Max@5.15-5.85GHz
Gain	2.2 dBi@2.4-2.5GHz 3.1 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

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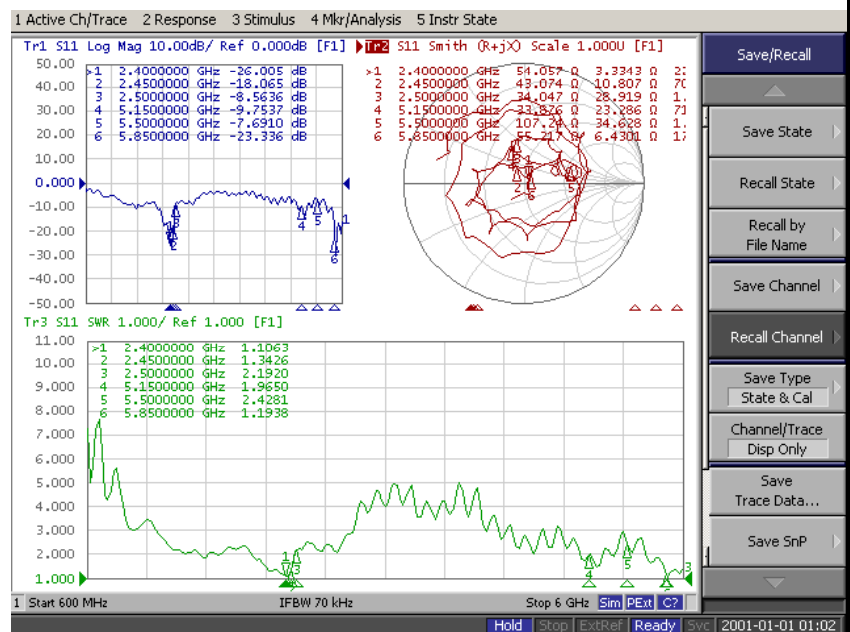


Antenna Performance Test

**Agilent
E5071B**

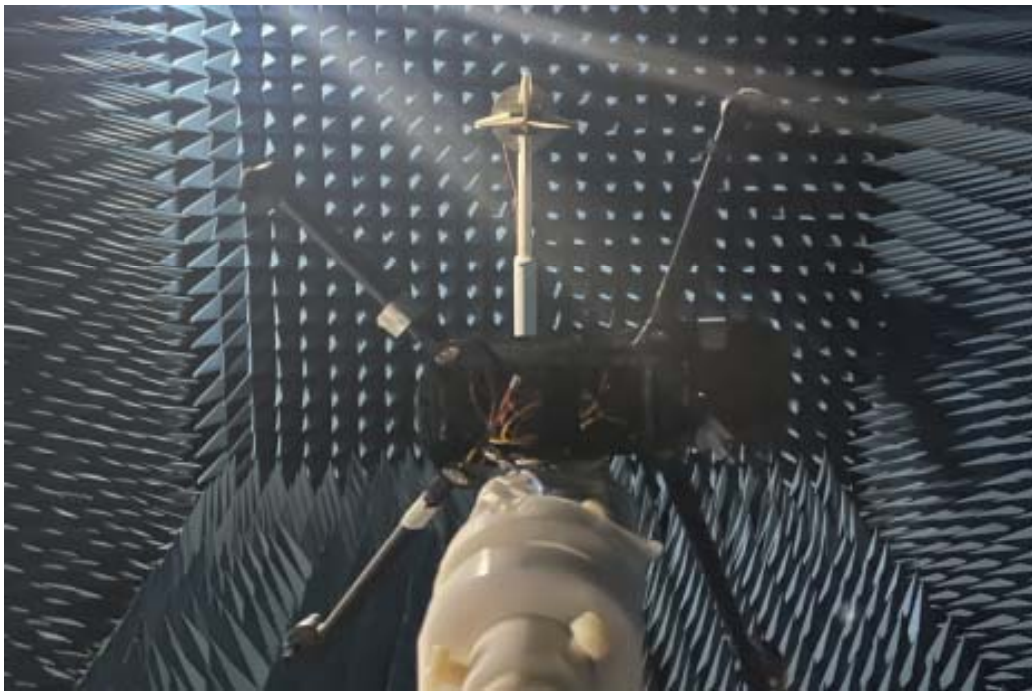


**S
Parameter
Test //**
**内置WIFI_R
Antenna**





Antenna Passive Test



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Passive Test For WIFI Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.7	-3.1	2.1
2410	49.1	-3.1	2.1
2420	46.6	-3.3	2.2
2430	46.6	-3.3	1.9
2440	46.9	-3.3	1.8
2450	47.4	-3.2	1.7
2460	47.6	-3.2	1.3
2470	47.6	-3.2	0.7
2480	45.7	-3.4	0.1
2490	44.8	-3.5	-0.7
2500	45.8	-3.4	-1.2

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Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	27.9	-5.5	-0.4
5200	27.7	-5.6	-0.5
5250	29.4	-5.3	-0.4
5300	33.8	-4.7	0.2
5350	34.5	-4.6	0.5
5400	32.6	-4.9	0.2
5450	31.4	-5.0	-0.4
5500	35.5	-4.5	-0.3
5550	39.4	-4.0	0.5
5600	46.2	-3.4	1.4
5650	66.2	-1.8	3.1
5700	63.0	-2.0	3.1
5750	60.3	-2.2	2.9
5800	52.1	-2.8	2.0
5850	49.1	-3.1	1.9

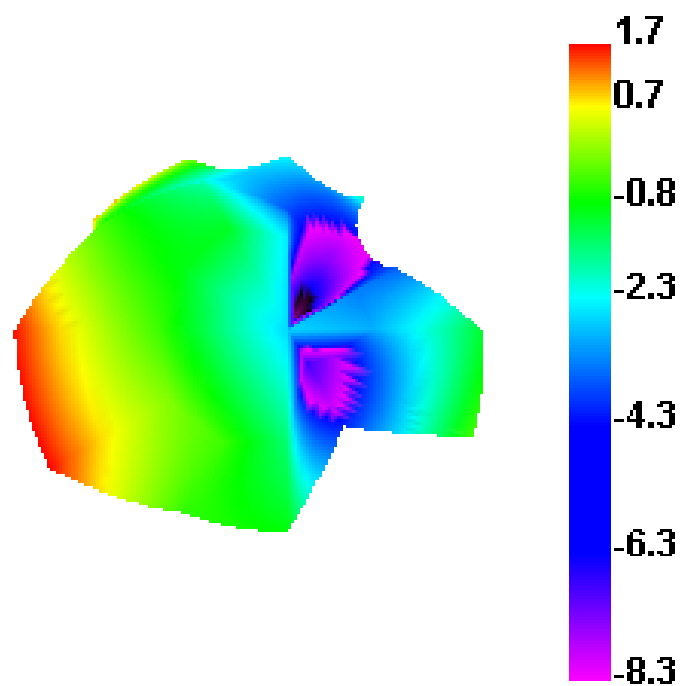
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Radiation Patten For 2450MHz

2450.000MHz





Radiation Patten For 5750MHz

5750.000MHz

