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: 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

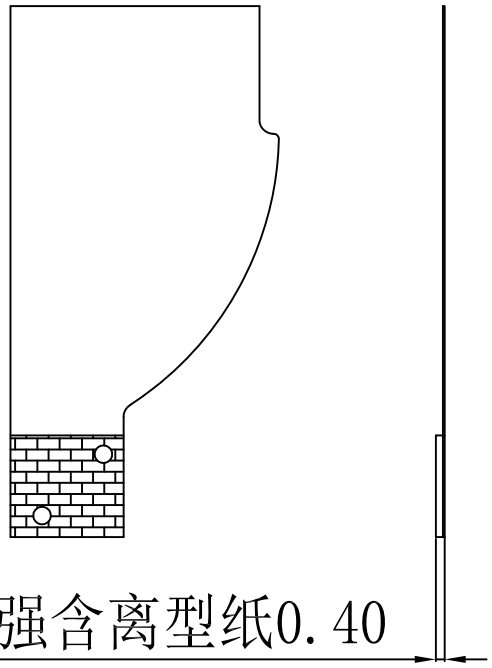
YJ-RD-F04-A

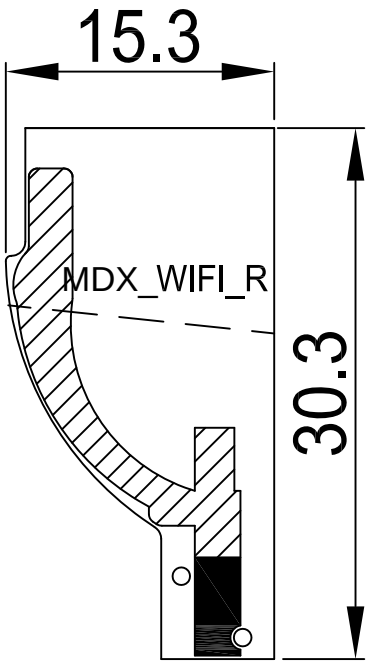
add: Yuanfu Industrial Zone, No. 59 Muyu Road, Shatou Community, Changan Town, Dongguan City

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

布線區　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。

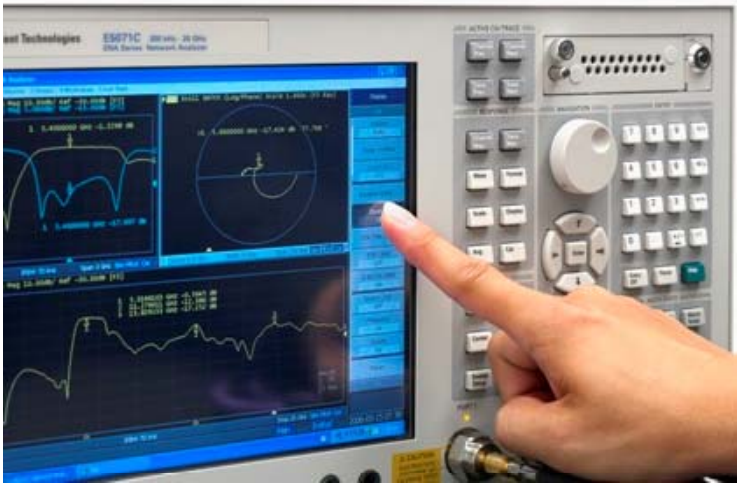
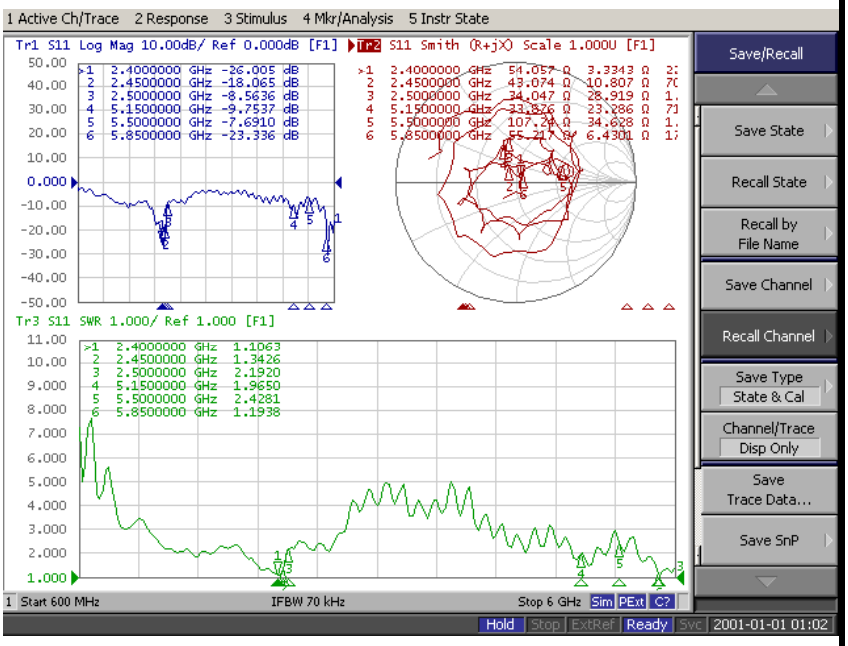
东莞市一佳电子通讯科技有限公司
Dongguan YiJia Electronics Communication Technology Co.,Ltd.
Tel :0769-82586086
Fax:0769-82586086

PART NAME: WIFI Antenna				
PART NO.: YJI01.005.070.308A			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°

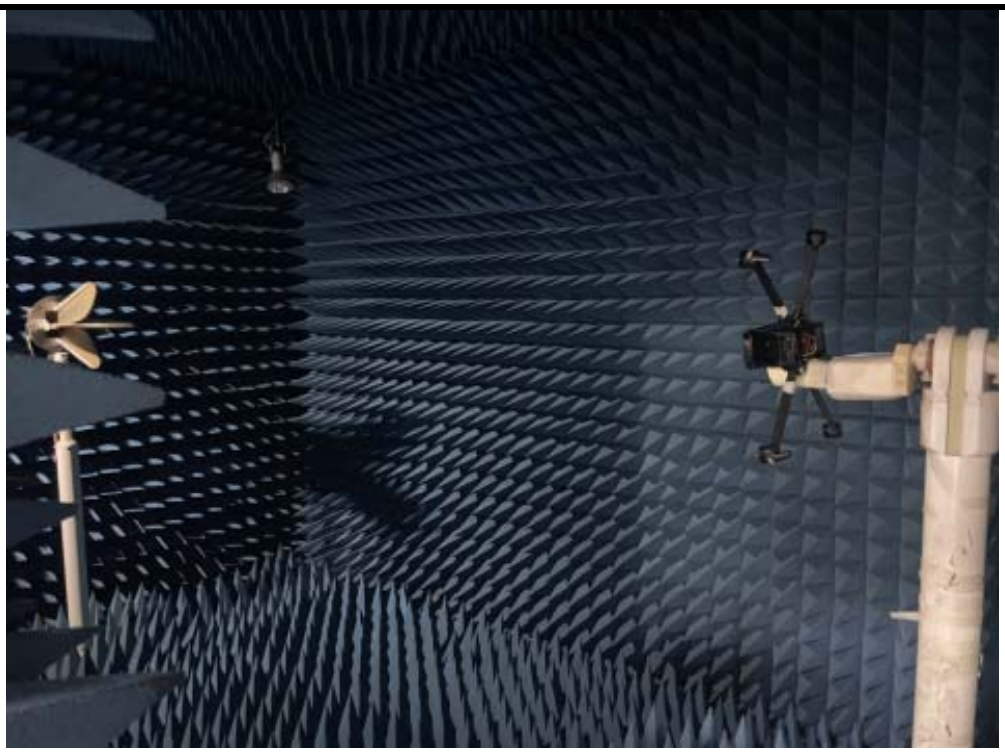
天线规格
Antenna Specification

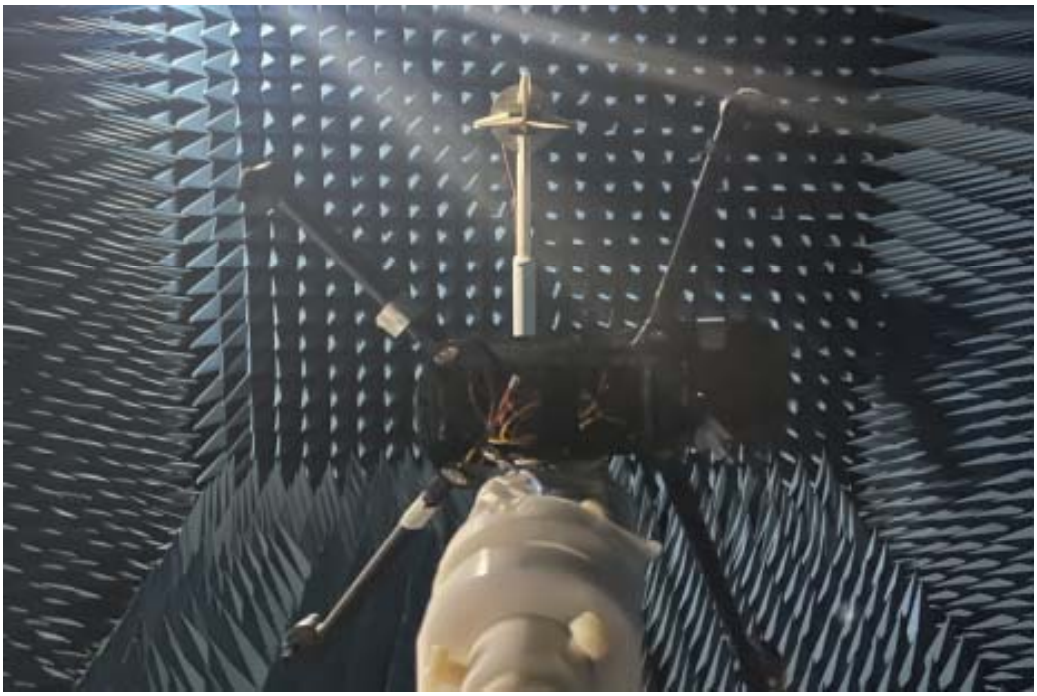
Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 3.0 Max@5.15-5.85GHz
Gain	2.2 dBi@2.4-2.5GHz 3.1 dBI@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	None
Cable Type	None
Cable Length	None
Cable Color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

Antenna Performance Test

Agilent E5071B	
S Parameter Test // 内置WIFI_R ***Antenna***	

Antenna Passive Test

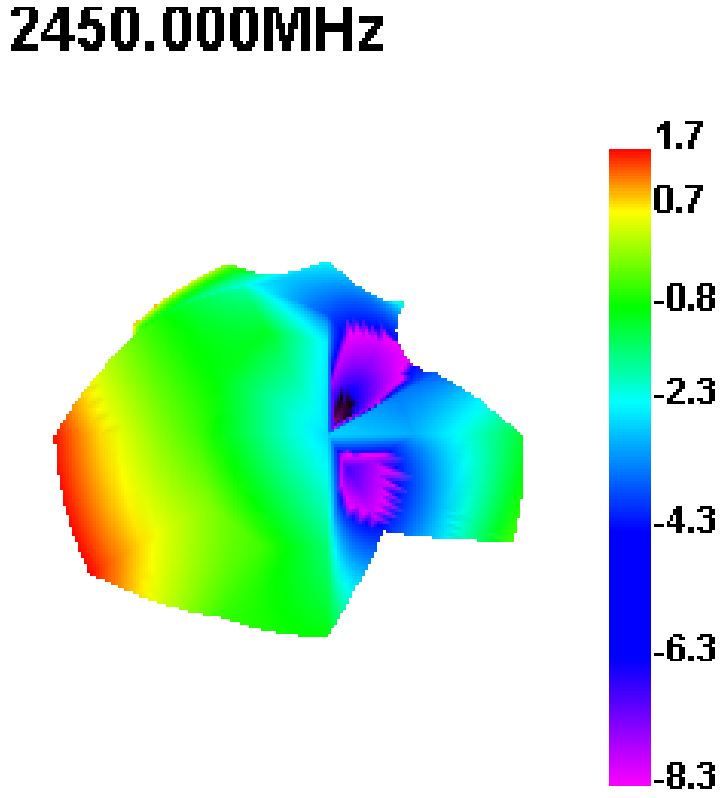




Passive Test For WIFI Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.7	-3.1	2.1
2410	49.1	-3.1	2.1
2420	46.6	-3.3	2.2
2430	46.6	-3.3	1.9
2440	46.9	-3.3	1.8
2450	47.4	-3.2	1.7
2460	47.6	-3.2	1.3
2470	47.6	-3.2	0.7
2480	45.7	-3.4	0.1
2490	44.8	-3.5	-0.7
2500	45.8	-3.4	-1.2

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

Radiation Pattem For 2450MHz



Radiation Pattem For 5750MHz