

承 认 书

SPECIFICATION FOR APPROVAL

申请商/Applicant: Chengdu Hotack Technology Co., Ltd.

申请商地址/Address: 501-502, Unit 3, Building 13, No. 666 Jinfenghuang
Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan
Province, China

制造商/Manufacturer: Chengdu Hotack Technology Co., Ltd.

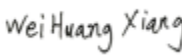
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Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan
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产 品 名 称

PRODUCT NAME: 2.4GHz Internal Antenna

客 户 料 号

CUSTOMER

	Name	SIGNATURE
CHECKED BY:		
APPROVED BY:	Ali Deng	WeiHuang Xiang
DATE:	2023-10-16	2023-10-16

1. Specification table:

Main technical parameters of the product

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
中心频率 特性阻抗(Ω)	50 $\pm$ 10	center frequency Impedance(Ω)	50 $\pm$ 10
增益(dBi)	2.56	Peak Gain(dBi)	2.56
输出电压 驻波比	<2.0	VSWR	<2.0
最大功率	8W	Admitted Power	8W
极化方式	垂直极化	Polarization	Linear,Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	Cable	Connector Type	Cable
物理性能		Physical Properties	
天线本体材料	线束	Antenna Base	Metal wire Antenna
天线走线材料	Copper	Antenna cover	Copper
工作温度	-20℃~+60℃	Operating Temp	-20℃~+60℃
保存温度	-20℃~+70℃	Storage Temp	-20℃~+70℃

2. Testing equipment and data

The return loss and VSWR were tested using the Agilent E5071B network analyzer as shown in the figure.

回波损耗及 VSWR 使用了下图的安捷伦 E5071B 网络分析仪进行测试。



E5071B 网络分析仪

Power/Sensitivity/Efficiency

The antenna power/sensitivity/efficiency was tested using the SG24 microwave anechoic chamber.

功率/灵敏度/效率

天线功率/灵敏度/效率使用了 SG24 微波暗室进行了测试



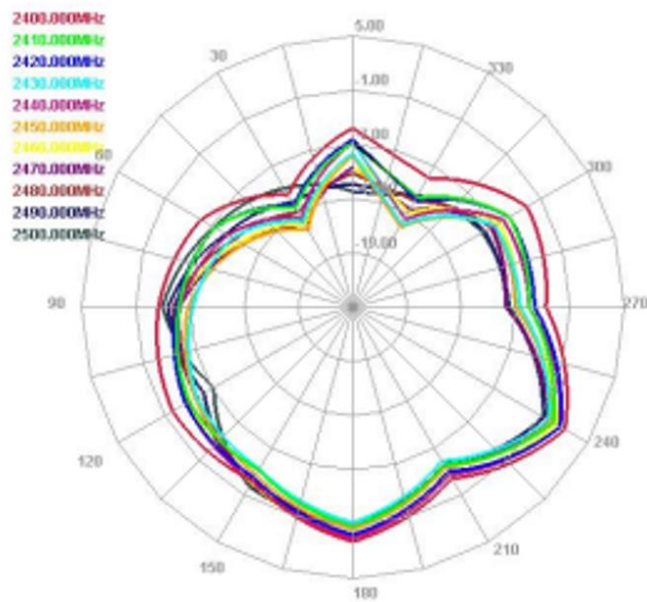
SG24 微波暗室

VSWR

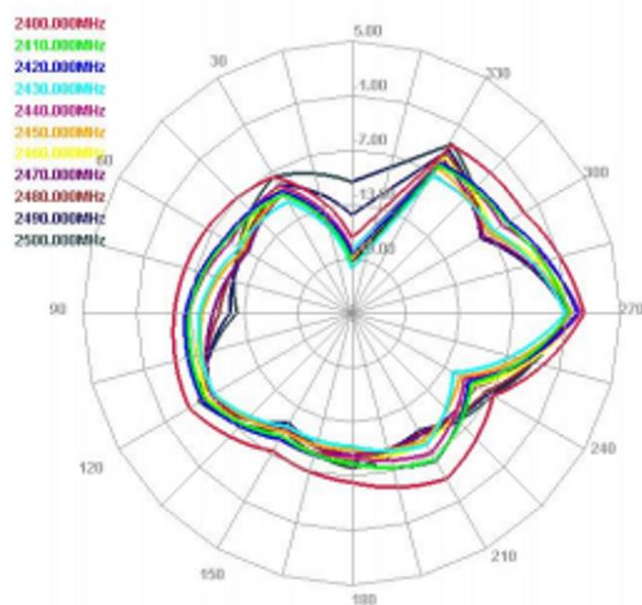
BT passive efficiency test data

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.47	2.56
2410	40.78	1.08
2420	45.6	1.98
2430	35.06	0.54
2440	44.95	1.45
2450	37.28	0.72
2460	42.8	1.38
2470	37.74	0.48
2480	39.16	0.48
2490	39.11	0.08
2500	41.29	0.21

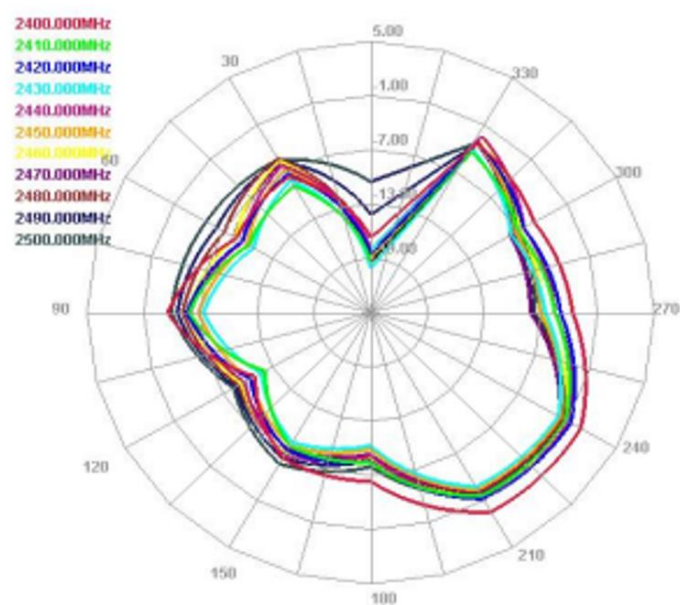
Horizontal



E1 Face



E2 Face



Antenna physical diagram

Size: Length & width: 24mm*0.8mm

