



承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 珠海市智迪科技股份有限公司

产品型号 Product Model: MG729F

客户料号 Customer P/N :

佳德料号 Jiade P/N: WJ. 05. 0000068

产品规格 SPECIFICATIONS: 2400MHZ-2500MHZ 钢片天线

制作日期 Production date: 2026-4-29

封样版本 Sample Version: R3

佳德（JIA DE）		
编制（FICTION）	结构（SE）	研发（R&D）
客户（Customer）		
采 购（PUR）	品质（QC）	研发（R&D）

生产厂商：佳德无线科技（深圳）有限公司

深圳地址：深圳市福田区泰然六路苍松大厦北座 601-602

电 话：0755-33353180 邮箱：olinama@jiadew.com

网 址：www.jiadew.com

Number	Effective date	Change record
R1	2026-2-28	Initial release
R2	2026-4-24	Update the antenna
R3	2026-4-29	Update the data

一、The basic parameters

A. Electrical Characteristics	
Frequency	2400MHZ~2500MHZ
VSWR	< 2.0
Avg Efficiency	>50%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	3.20dBi
B. Material & Mechanical Characteristics	
Material of Radiator	钢片 True qualities
AntennaType	Metal Antenna
Connector Type	/
Dimension（mm）	21.80mm*14.49mm±0.2mm
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 20 °C ~ + 60 °C

二、Electrical Specification

Those specifications were specially defined for MG729F model.

三、VSWR

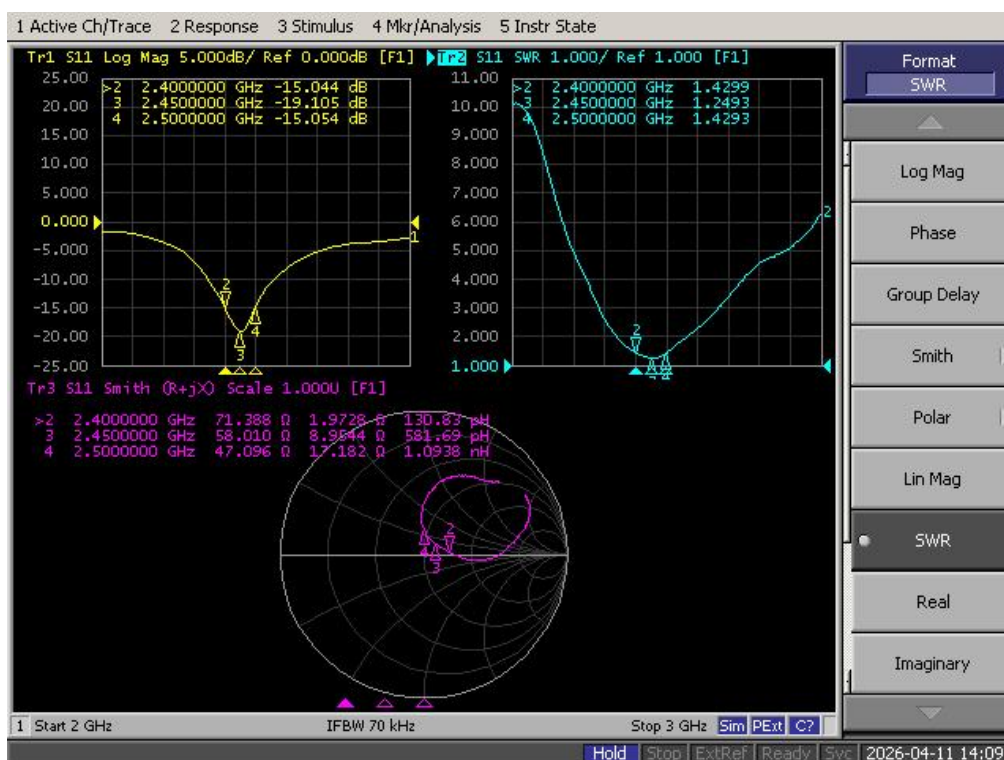
1 Measuring Method

1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value

加配重铁块



四、Anechoic chamber

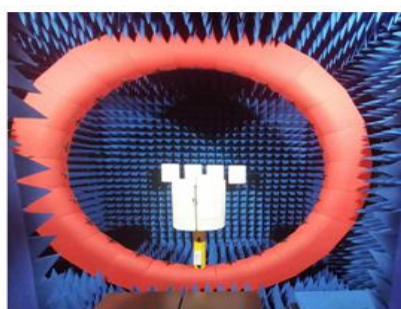
Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance :

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)

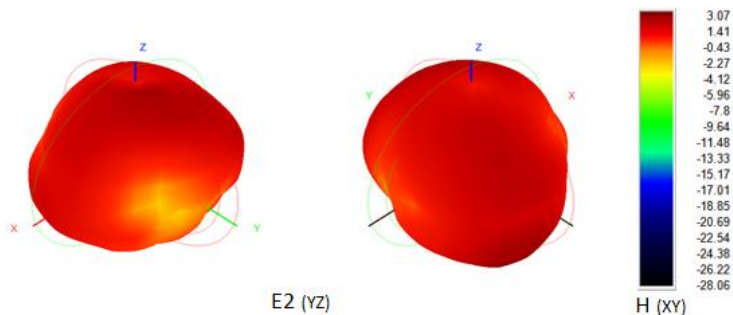


五、Gain table of Antenna

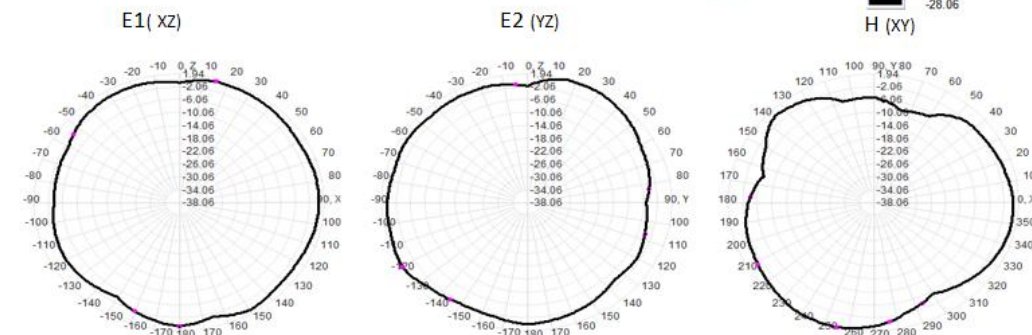
无源场型图

加配重铁块-
2400MHz

3D

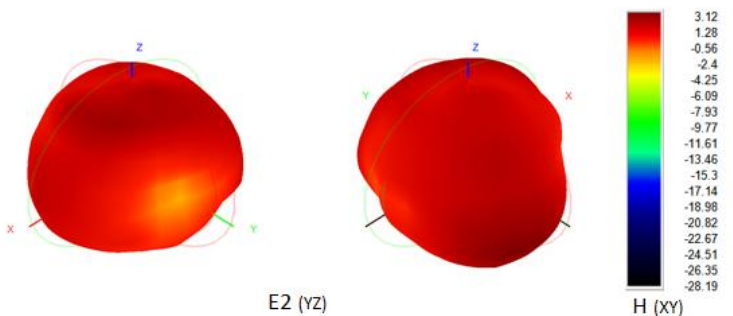


2D

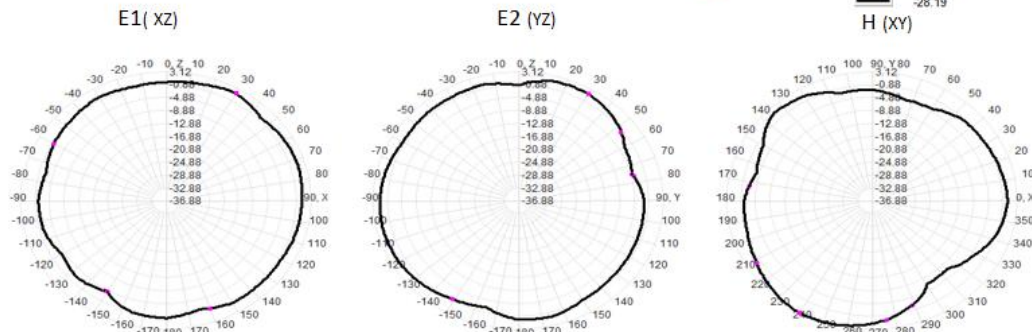


加配重铁块-
2450MHz

3D

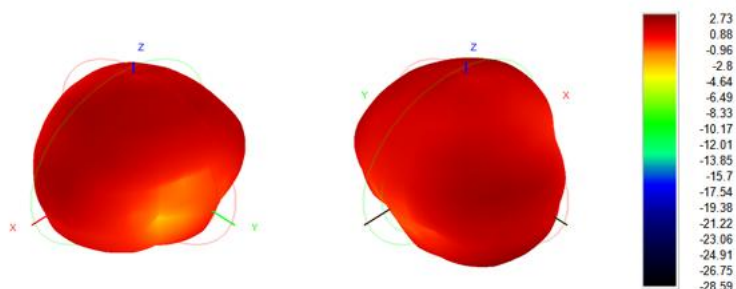


2D

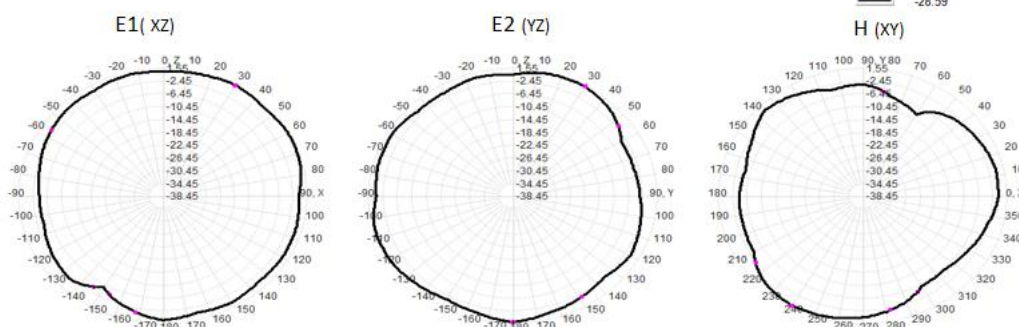


加配重铁块-
2500MHZ

3D



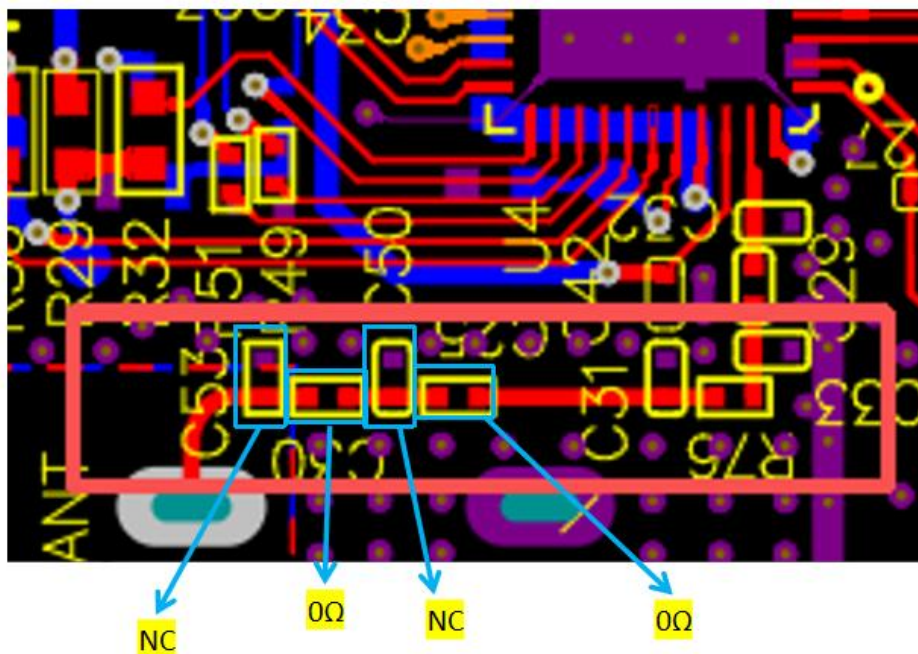
2D



无源效率增益

2400MHZ-2500MHZ			
加配重铁块			
Freq	Effi	Gain	Effi
(MHz)	(dBi)	(dBi)	(%)
2400.0	-2.33	3.07	58.42
2410.0	-2.12	3.16	61.41
2420.0	-1.98	3.20	63.42
2430.0	-1.88	3.04	64.91
2440.0	-1.99	2.99	63.29
2450.0	-1.90	3.12	64.61
2460.0	-2.10	2.84	61.59
2470.0	-2.01	2.61	62.92
2480.0	-2.16	2.46	60.87
2490.0	-2.26	2.51	59.48
2500.0	-2.27	2.73	59.31

八、Matching circuit

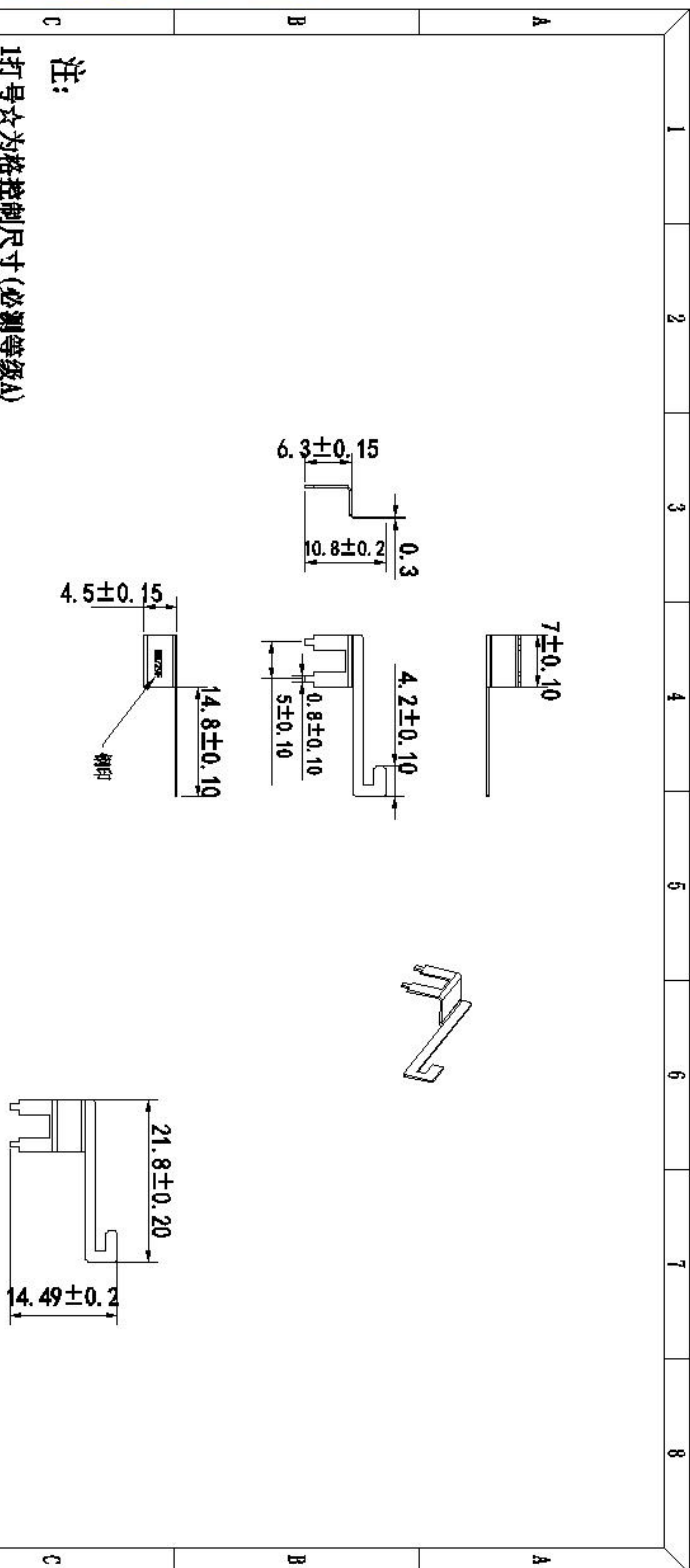


匹配参数0Ω导通即可

† Antenna Dimensions

由 Autodesk 教育版产品制作

田 Autodesk 教育版产品制作



由 Autodesk 教育版产品制作

注:

- 1打号☆为格控制尺寸(必测等级A)
- 打*号为重要尺寸(制作模具要控制, 模具验收必测等级B), 其它尺寸为设计参考尺寸等级C;
- 2有变形、翘起、毛刺、油污、刮伤等缺陷;
- 3、材质:SUS304 3/4H T:0.3mm, 镀镍 3μm;
- 4未标注尺寸按CAD电子图1:1量取
- 5未标注公差按CAD电子图公差表
- 6热熔孔位置公差为 ± 0.05 并实配
- 7、弹片表面印字, 具体内容见图, 要求字体清晰可见

展开图档 (指定材质: SUS304 3/4H)

[illegible]

由 Autodesk 教育版产品制作

十一、ROHS

Antenna WJ.05.0000068 meets RoHS requirements.

十二、Product packaging instructions

A. packing should meet the moisture-proof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****