



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME (客户名称)	ShenZhen FLYSKY Technology Co.,Ltd
CUSTOMER P/N (客户料号)	E-ANT3-240150-0000
PART NAME (品 名)	2.4 G copper tube antenna
DWM P/N (料 号)	
APPROVAL REV. 版次	DWM-V1.0

CONTRACTOR			DATE: 2022.8.8
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

CUSTOMER		DATE:
Approved By	Checked By	Prepared By



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1. Product Application/产品应用

This antenna product is used for the transmission of 2400~2500MHz signals.
该天线产品用于 2400~2500MHz 信号的传输。

2. The test environment, equipment/测试环境、设备

Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求
2.1	Passive testing /无源测试	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices. (VSWR 测量装置依次连接: 网络分析仪测量电缆 agilent5071B→→客户提供终端。)	Standing wave ratio 驻波比: 2400~2500MHz<2.0 impedance 阻抗: 50 oh
		Test equipment/测试设备	
			
Item 项目	Description 项目描述	Test Condition/测试条件	Requirement /规格要求



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增益及
效率测试

Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.
(以下图片显示的天线的测量条件被放在测量装置,它是用于所有的测量电性能。)

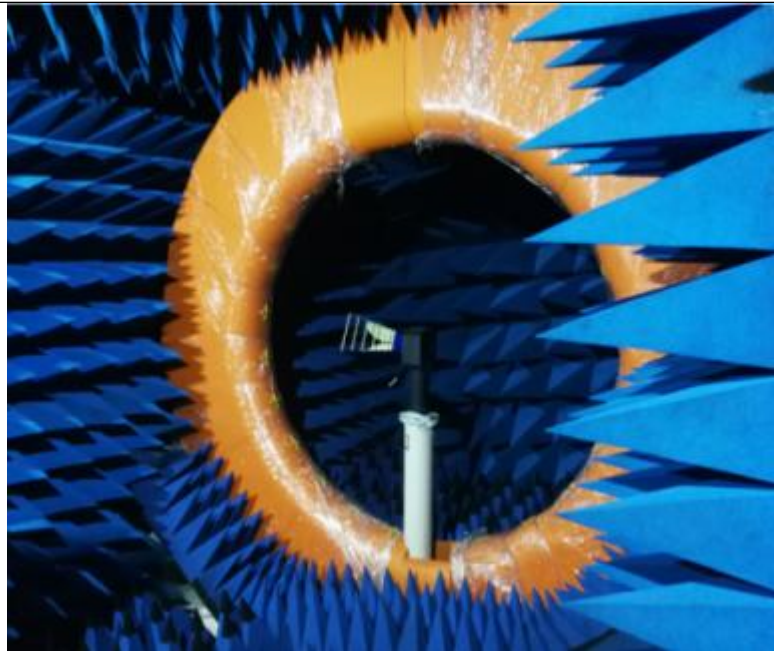
Antenna gain 天线增益:
2400~2500MHz:2.0dBi±1.0dBi

Antenna efficiency 天线效率:
2400~2500MHz>60%

2.3

Microwave
Anechoic
(Satimo&ETS
)
/微波暗室

Test equipment/测试设备



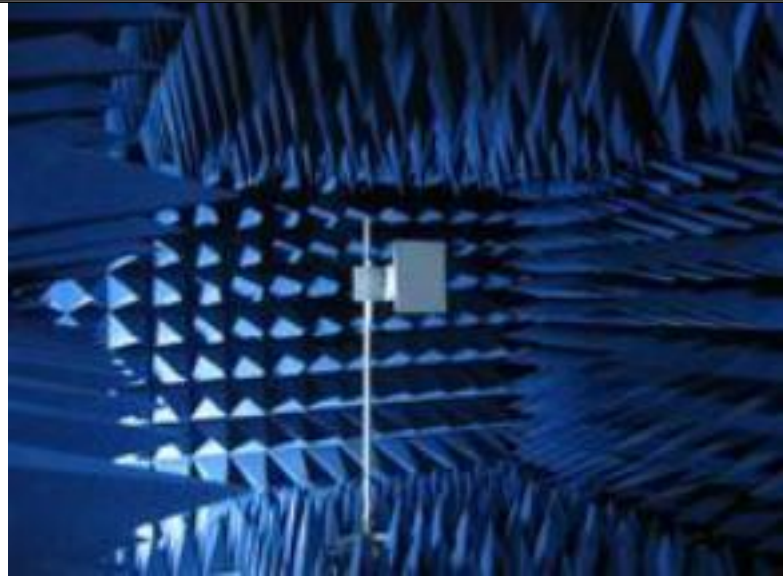


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CMW500
Agilent5071B
AgilentE4405B
Agilent8960

2.4



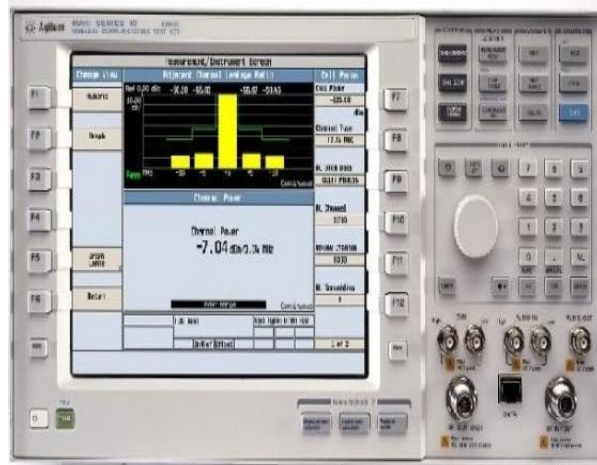


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3. Technology Parameters/技术参数

Frequency Range/频率范围: 2400-2500MHz

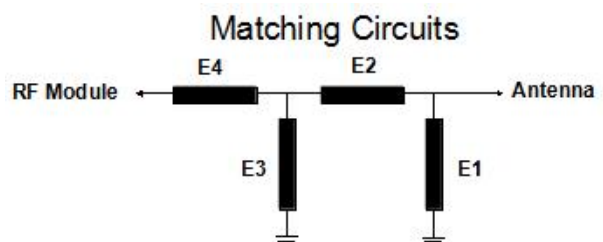
Operating Humidity/工作湿度: 85% R.H.MAX

Temperature Rating/温度范围: -40°C ~ +85°C

3.1 The matching test value/调试匹配值

我司没有对天线的匹配电路做调试

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	





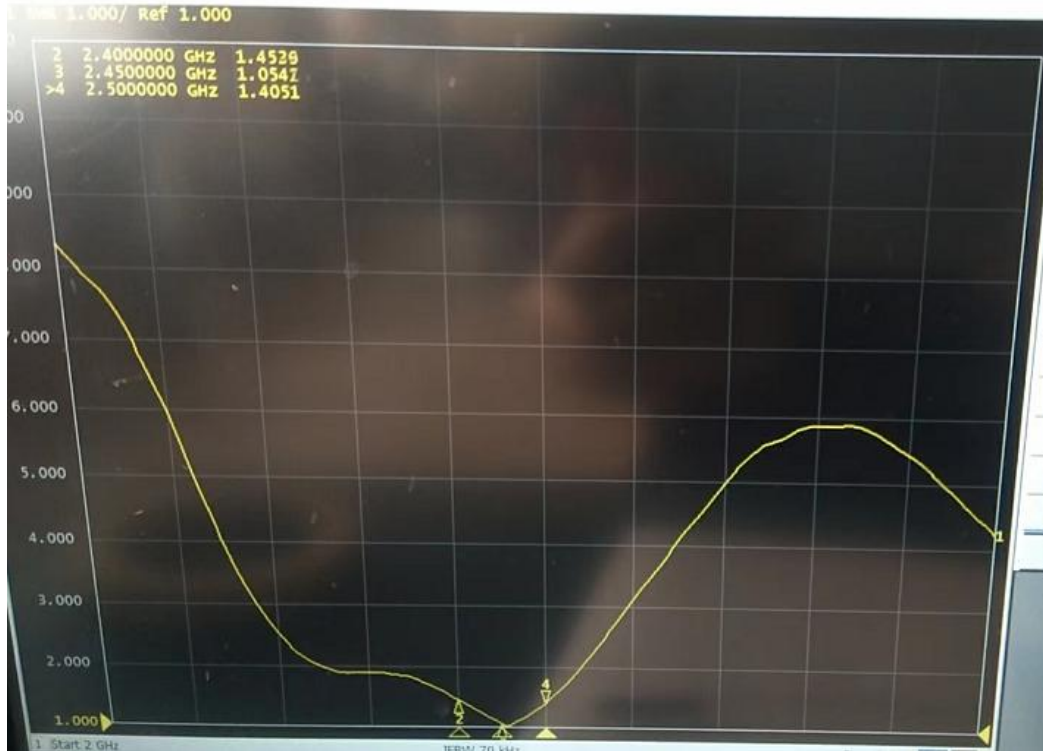
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3.2 VSWR/驻波比:



3.3. Efficiency And Gain/效率和增益

Frequency / MHz	Efficiency / dB	Efficiency / %	Frequency / MHz	Gain/ dBi
2400	-1.76	66.68	2400	2.8
2410	-1.91	64.42	2410	2.81
2420	-1.71	67.45	2420	2.89
2430	-1.82	65.77	2430	2.38
2440	-1.97	63.53	2440	2.09
2450	-1.9	64.57	2450	2.33
2460	-1.89	64.71	2460	2.36
2470	-2.04	62.52	2470	2.08
2480	-1.98	63.39	2480	2.12
2490	-1.9	64.57	2490	2.23
2500	-1.98	63.39	2500	2.21



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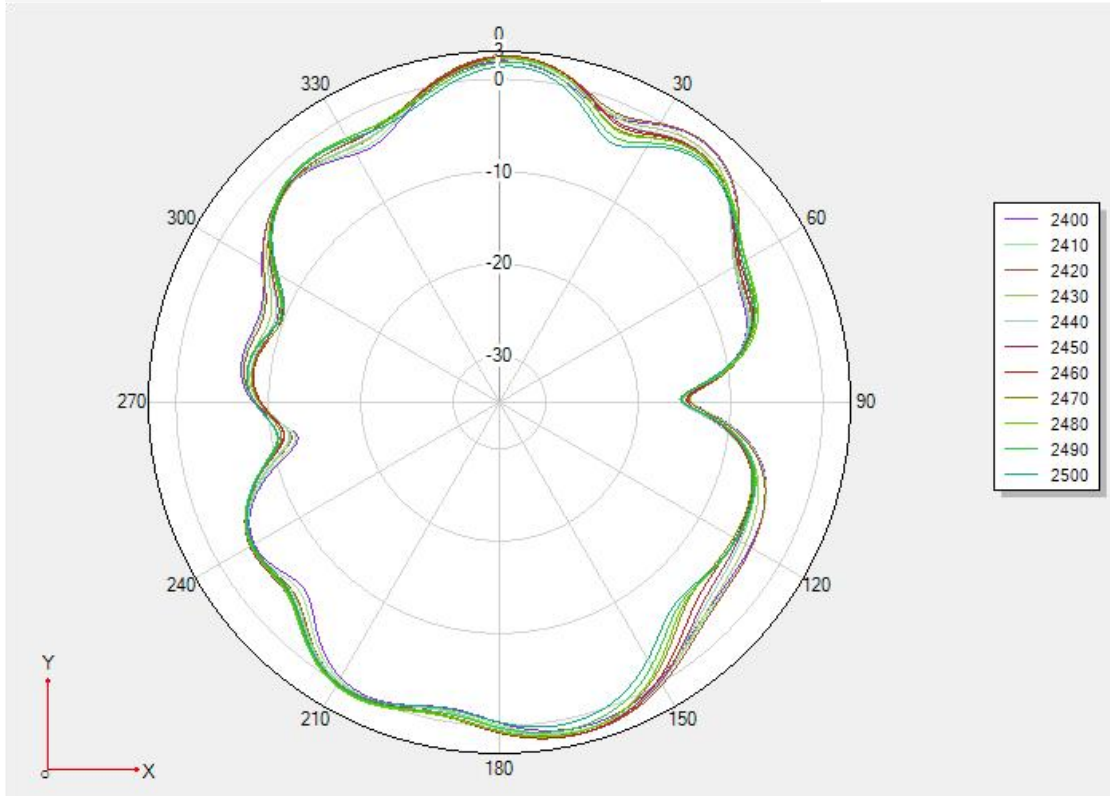
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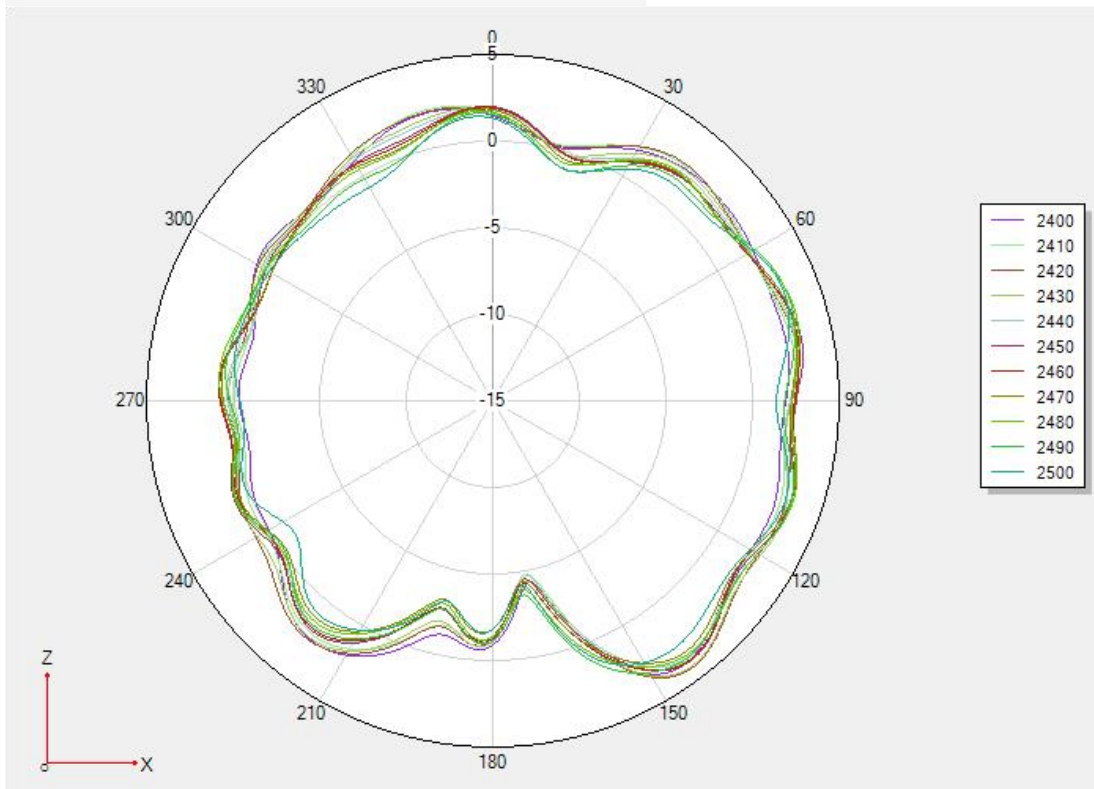
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4.E 1 direction diagram/E 1 面方向图



5.E 2 direction diagram/E 2 面方向图





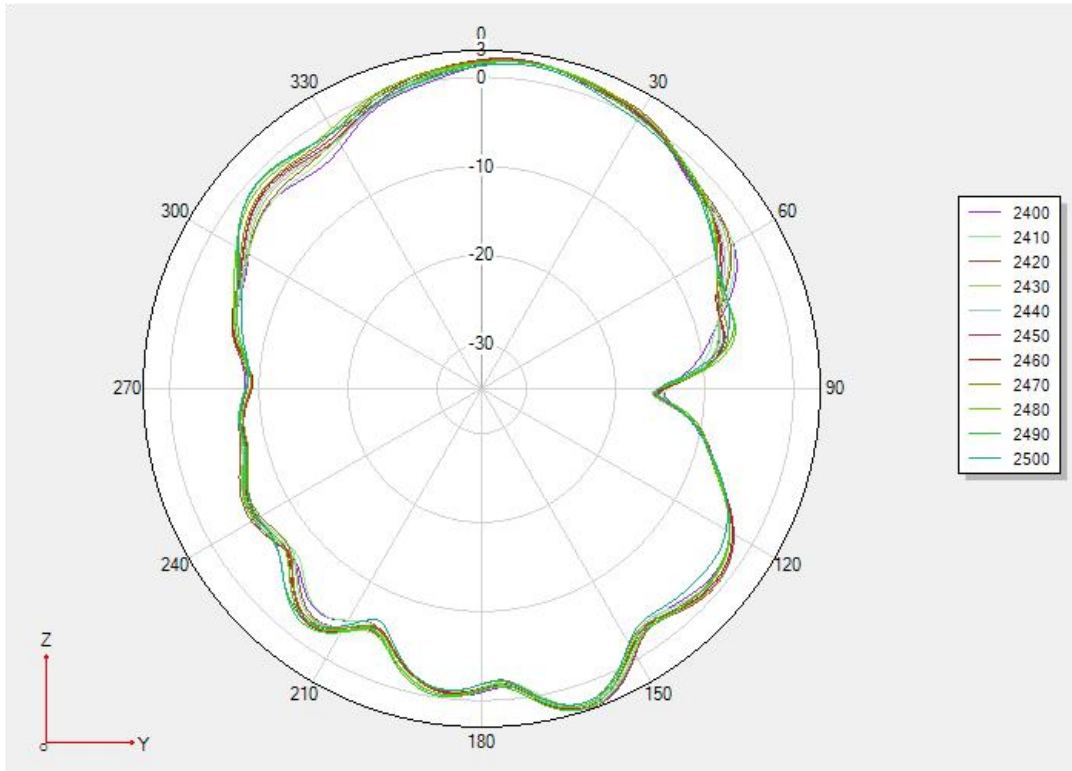
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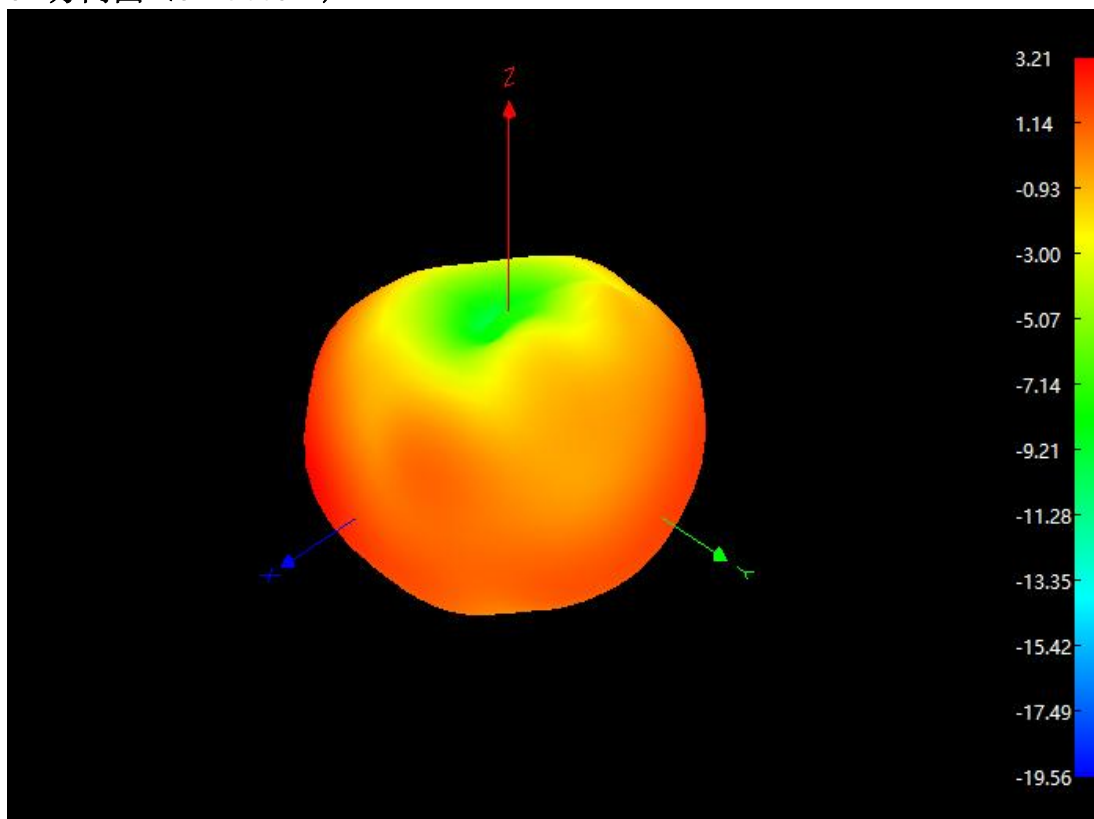
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5.E 3 direction diagram/E 3 面方向图



3D 方向图 (3D Pattern)





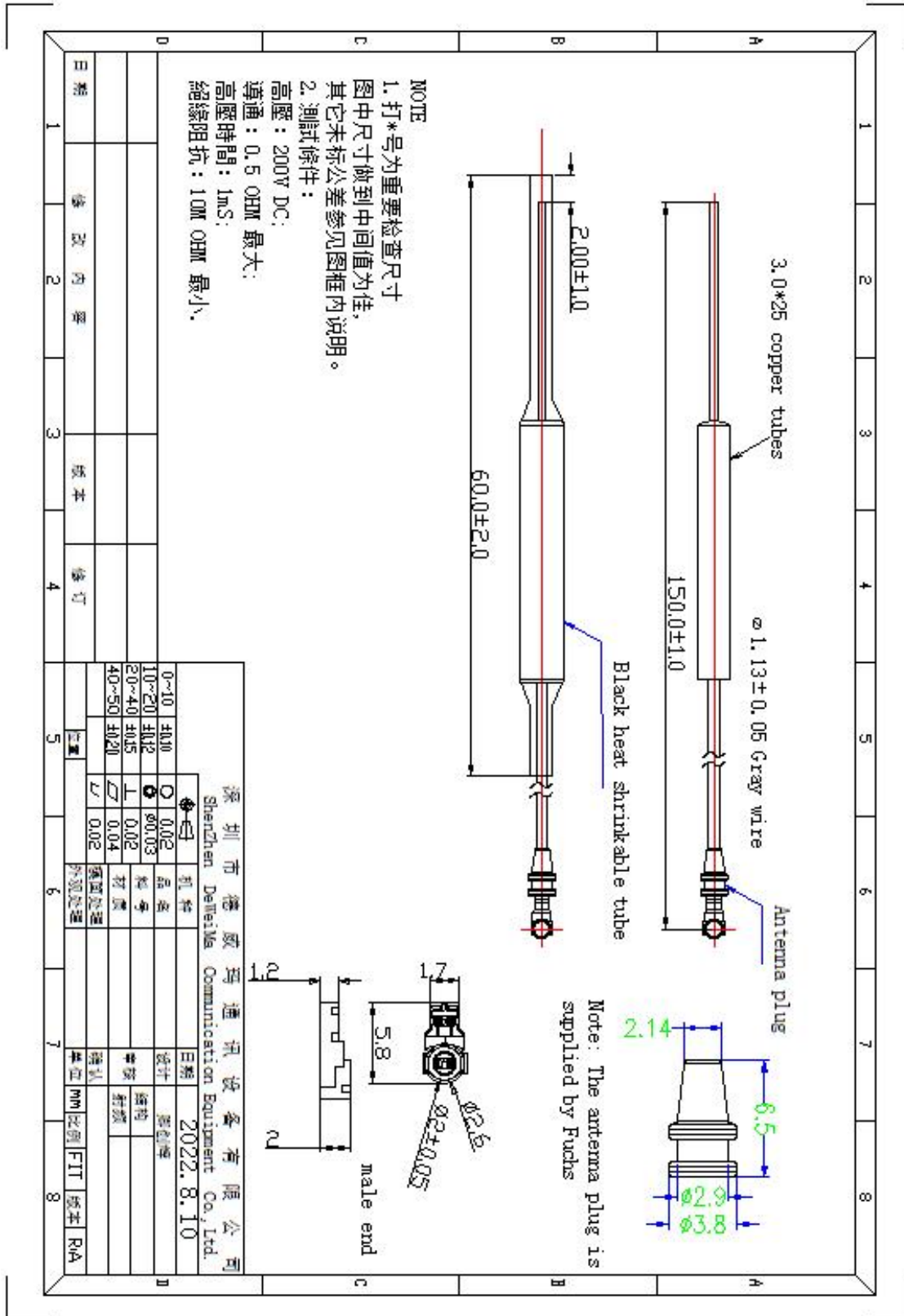
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6. Antenna Engineer drawing/工程图纸





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7.Environmental Performance/环境性能

Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求
5.1	High and low temperature test 高低温测试	Temp.: -40 °C Time: 48 hours Temp.: 85°C Time: 48 hours	1. No visible damage. (无可见损伤) 2. The electric performances reach the standard. (电气性能达标)
Item 项目	Description 项目描述	Test Condition 测试条件	Requirement 规格要求
5.2	Salt Spray 盐雾测试	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time:24 hours	1. No color change. (无颜色变化) 2. the appearance of the antenna does not flake off. (天线无外观脱落)

6.Usage Precaution/使用禁忌或注意事项

No	Items 项目	Matter 事项
6.1	Precautions 禁忌	a)Please avoid the cleaning of this product a)请避免清洁此产品
No	Items 项目	Matter 事项
6.2	Stockpile condition 存储条件	Use this product within 6 months after receipt Condition : Temp: 5~30°C Humidity:≤70% 有效期: 请在产品接收后的 6 个月内使用 存储环境: 温度:5~30°C; 湿度:≤70%