



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME (客户名称)	
CUSTOMER P/N (客户料号)	
PART NAME (品 名)	<u>BTA100 Antenna</u>
DWM P/N (料 号)	
APPROVAL REV. 版次	DWM-V1.0

CONTRACTOR 研发专用章			DATE: 2026-7-8
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
高春彦	陈裕松	覃球铭	余奇学

CUSTOMER		DATE:
Approved By	Checked By	Prepared By



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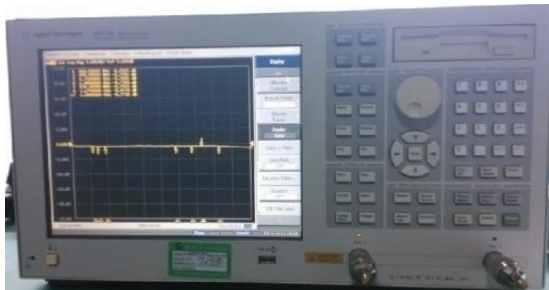
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1. Product Application/产品应用

该天线产品用于 2.4G 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。)	驻波比: 2400-2500MHz < 2 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
2.2	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。)	天线增益: 2400-2500MHz: 2dBi 天线效率: 2400-2500MHz > 30%



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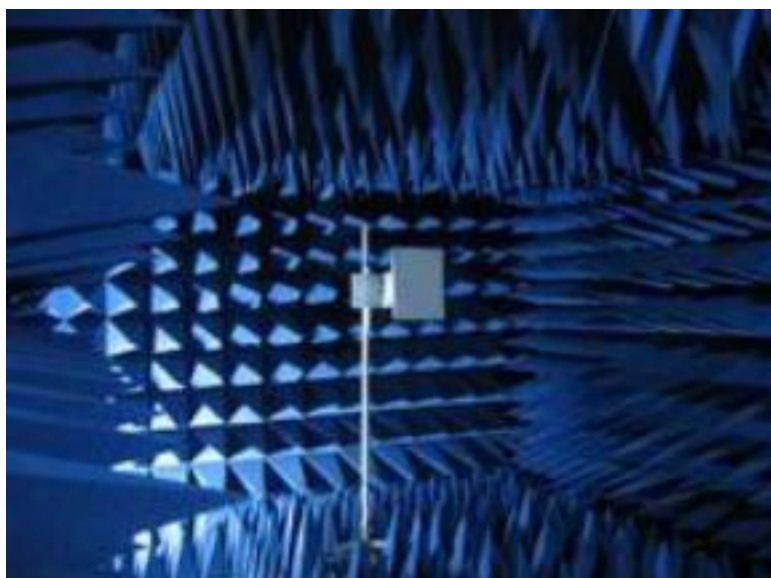
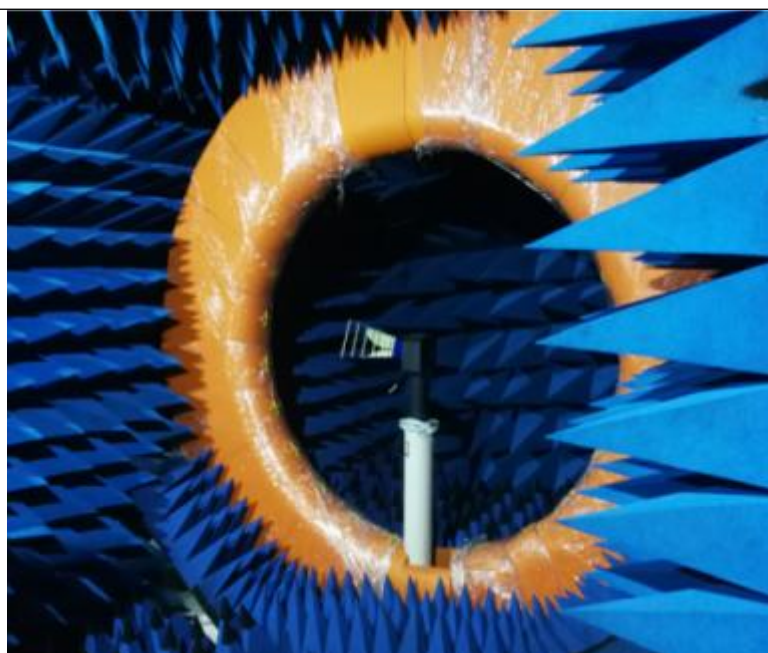
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Test equipment/测试设备

2.3

Microwave
Anechoic
(Satimo&ETS
)
/微波暗室





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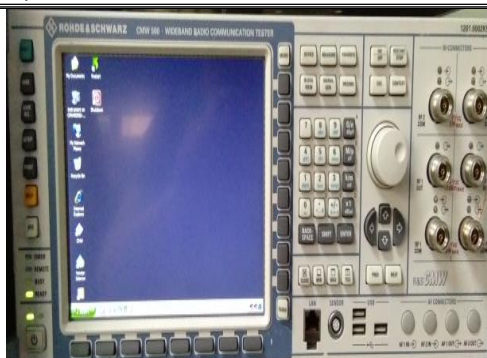
CMW500

Agilent5071B

2.4

AgilentE4405B

Agilent8960





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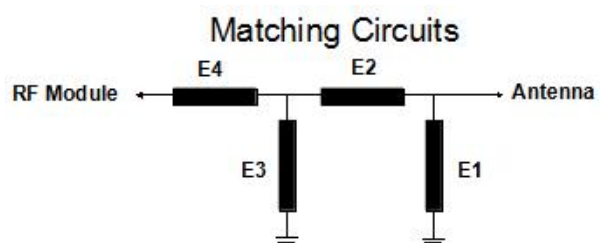
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3. Technology Parameters/技术参数

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℃~+85℃

3.1 The matching test value/调试匹配值

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





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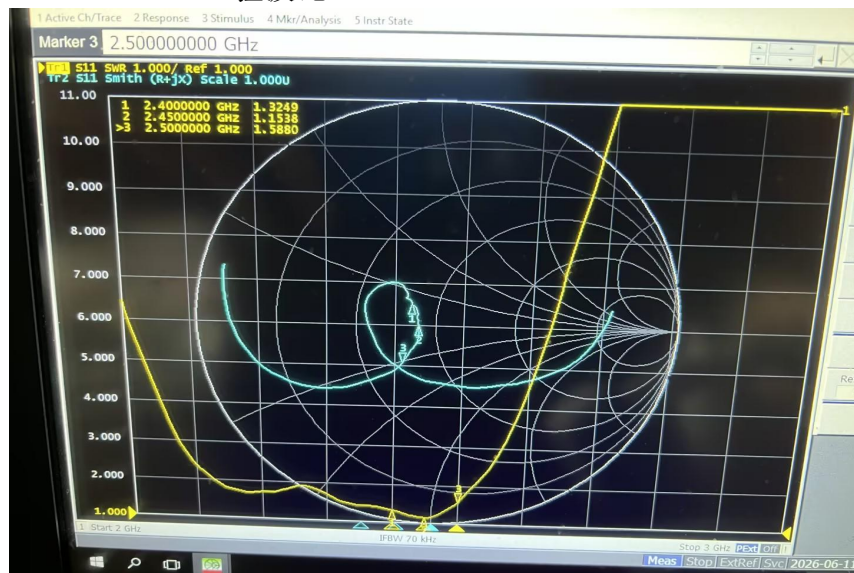
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3.2 VSWR/驻波比:



3.3. Efficiency And Gain/效率和增益

Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	5.58	-14.91	2.91	3.80	-2.82	52.30
2410.00	5.42	-16.12	2.94	3.59	-2.92	51.03
2420.00	5.17	-17.31	2.87	3.30	-3.05	49.54
2430.00	4.79	-18.54	2.68	2.85	-3.14	48.54
2440.00	4.36	-19.61	2.48	2.31	-3.31	46.70
2450.00	4.07	-19.94	2.42	1.98	-3.40	45.66
2460.00	3.80	-20.10	2.29	1.70	-3.53	44.33
2470.00	3.40	-20.17	2.00	1.33	-3.77	41.97
2480.00	3.06	-20.04	1.76	1.01	-3.88	40.95
2490.00	2.61	-20.35	1.36	0.52	-4.13	38.64
2500.00	2.43	-20.12	1.27	0.27	-4.09	39.03

3.4 2D & 3D PHOTO



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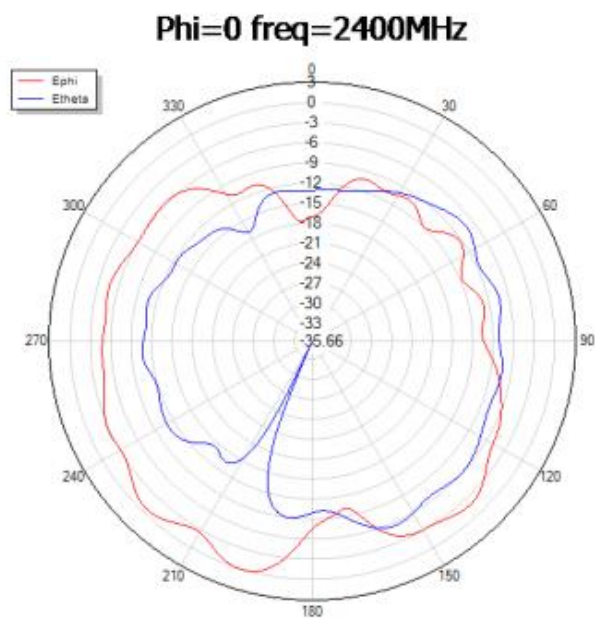
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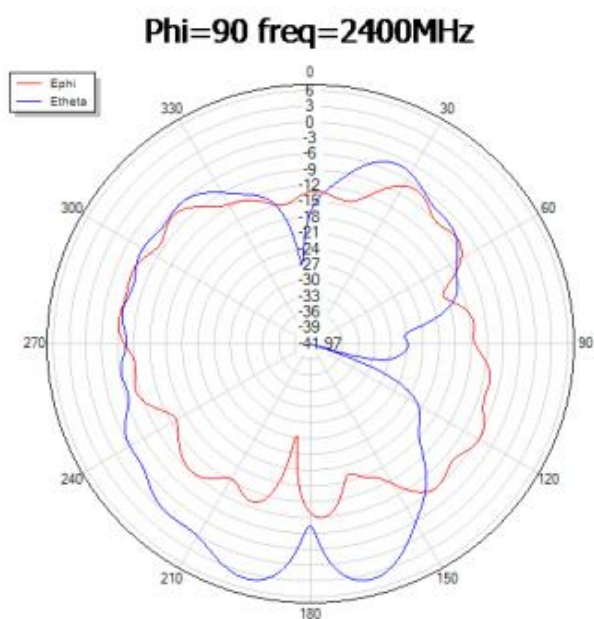
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Phi0° 2D 方向图



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Phi90° 2D 方向图





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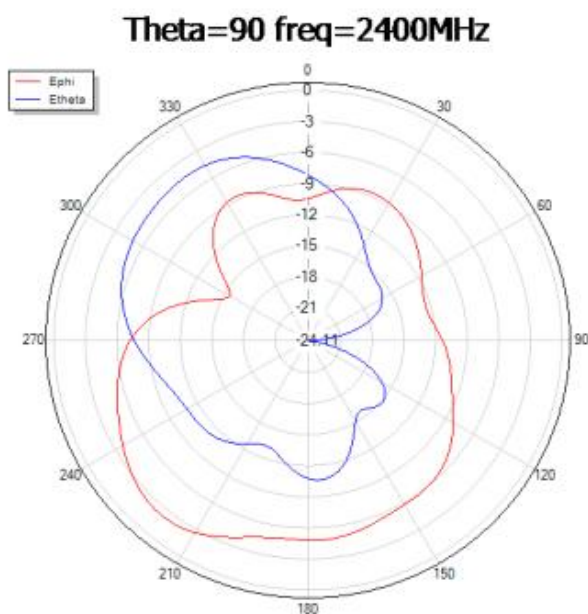
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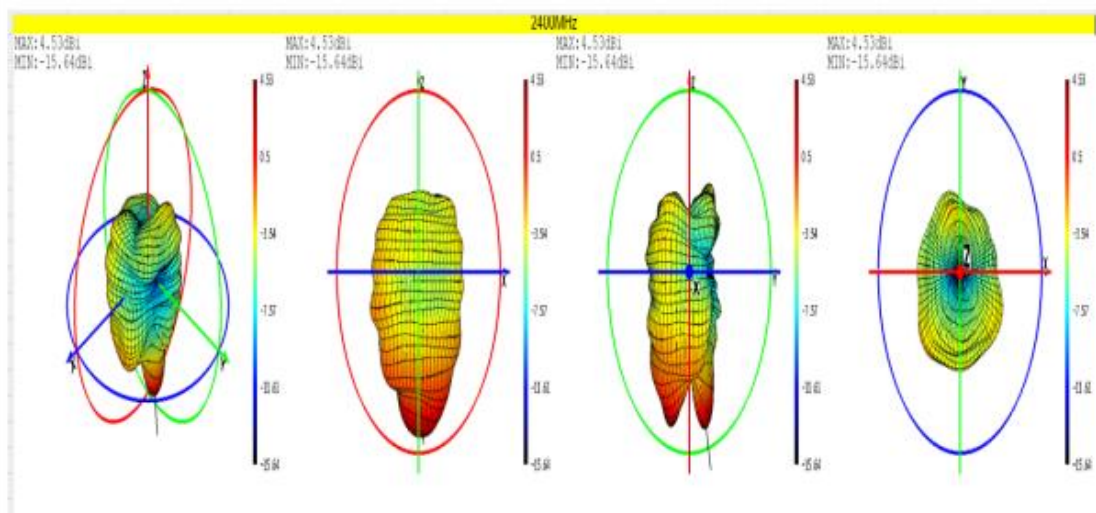
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Theta90° 2D 方向图



3D 方向图 (3D Pattern)

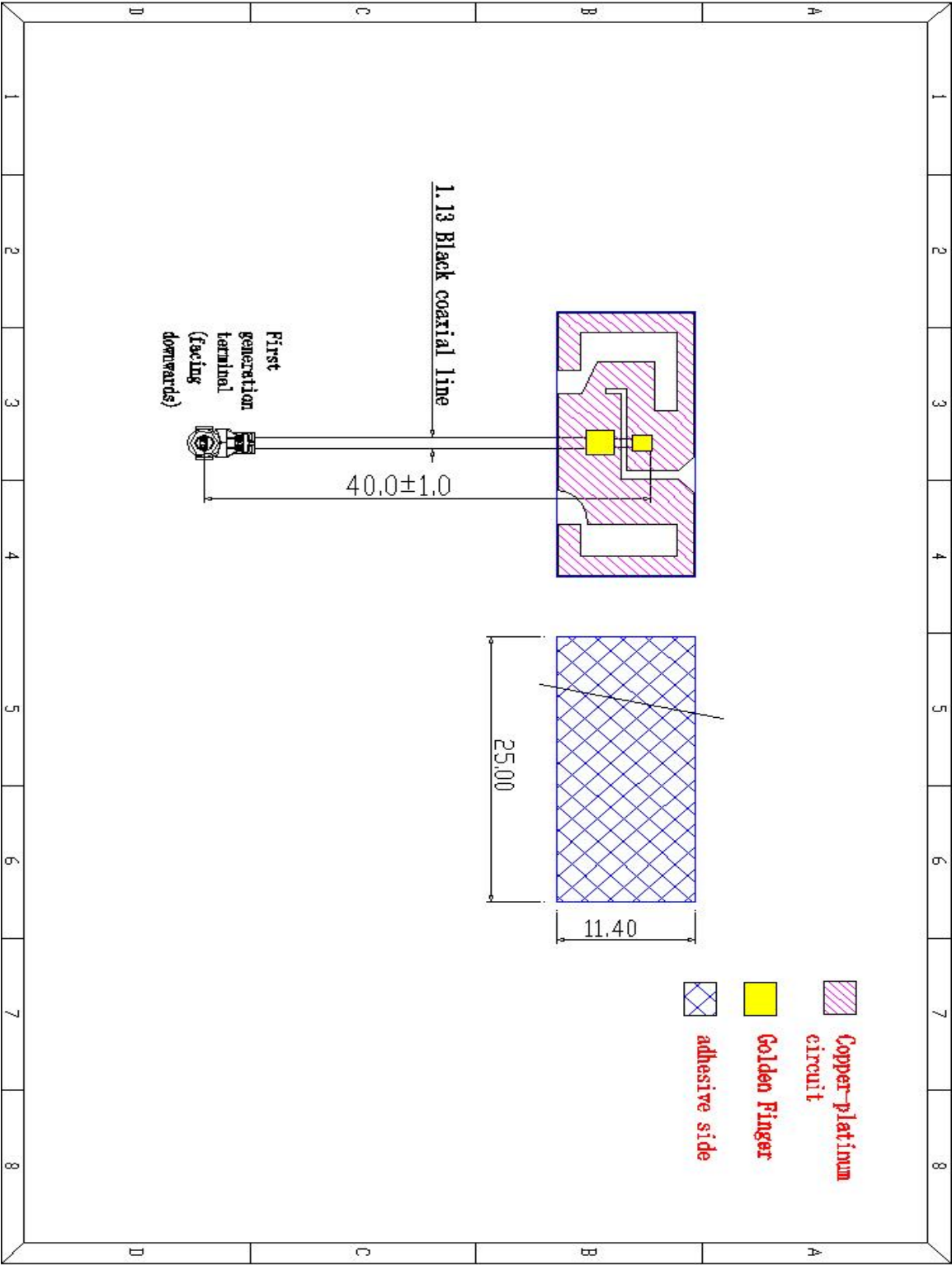




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4.Product photo/产品实物图片



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5.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%



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