



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2dBi 2.4G-5.8G dual-band glue stick antenna

Customer No.

Product No.

SD0623-2.4G-5.8G dual-band glue stick antenna

Author: XiaofengZeng Review: Liming

Release Date: 2026.01.30

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ShenZhen Shuodian Electronic Technology Co., Ltd



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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of ShuoDian Technology company

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		



2. General

2.1 Scope of application

This specification is only applicable to Glue stick WIFI antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	Glue stick WIFI antenna
2	Operating Frequency Band	2.4~2.5G/5.1~5.9G
3	VSWR	≤ 2.0
5	Radiation Efficiency	$\geq 50\%$
6	Impedance	50 Ω
7	Antenna Type	dipole
8	Antenna composition	glue stick antenna
9	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	glue stick	Φ 10*110MM

4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:



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4.2 Electric Performance

4.21 Test condition

Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: AKEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

多探头天线测试暗室

系统简介

使用多探头电子切换的测量方式可以实现快速的天线测量，相比较传统的机械旋转方式，测试速度可提高一个数量级。

使用垂直安装的多探头切换架构可以使得待测天线直接水平方式放置在待测台上，具有承重大，待测物转动的时候不受重力方向变化影响，摆放简单方便等优点。针对测试距离限制，使用近场测量方式可以直接得到近场条件下的幅相分布，经过严格的数学变换可以得到精确的远场辐射方向图。

技术参数

暗室尺寸：暗室外尺寸为4m*4m*4m（不计波导窗）
探头数量：24（其中23个双极化探头，1个通话探头）
阵列直径：内径2.60m，测试距离1.30m
探头间隔：15度，可实现15/30/45/60/90间隔测试
屏蔽效能：工作频段内100dB
测量频率：400M-8.5GHz全模式
测试方式：近场远场复合式（球面近场）
最大待测物重量：50kg
最大待测物口径：0.6-1.2m按不同频段

测试能力

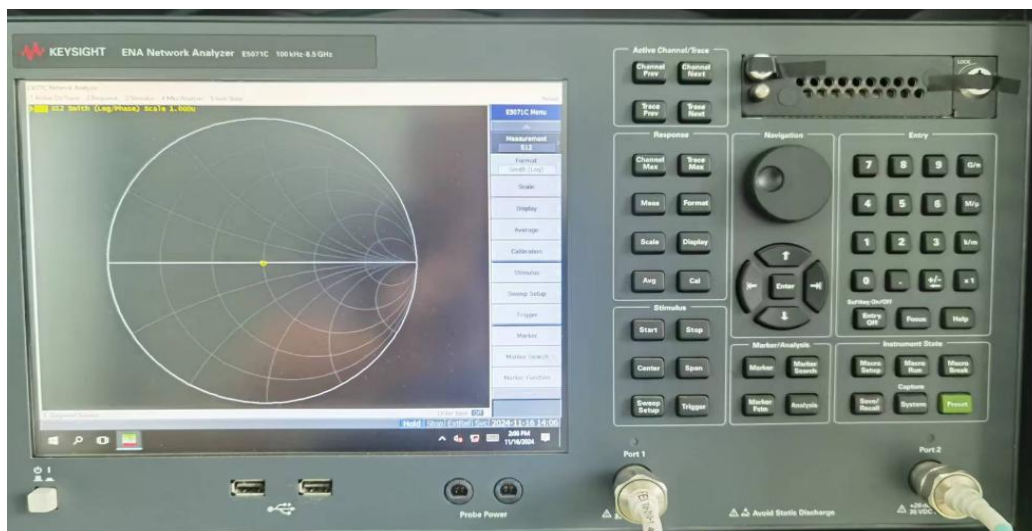
无源模式：支持无源天线和有源天线的无源模式测量，可测试增益，效率，波束宽度，前后比，零点深度，波束偏移角，交叉极化比，轴比，线极化分量测量，圆极化分量测量，+/-45度斜极化测量，相位中心测量，相关性系数ECC测量，多端口天线测量等参数。支持使用RS ZND, ZNB, 8753, 5071, 5230, 3672等各厂家各系列网络分析仪。

有源模式：支持2345G全制式多模式测量以及NB-IoT, eMTC, CAT-1, Bluetooth 1-5, GPS/Beidou/Glonass, WLAN802.11abgnacax6E数字对讲机等制式的接收和发射测量。可测量TRP, TIS, EIRP, EIS, 吞吐量，发射平坦度，接收平坦度等的测量。





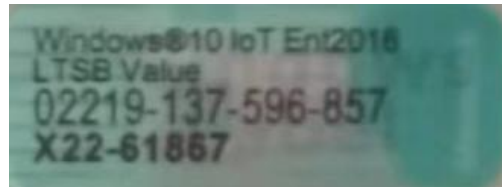
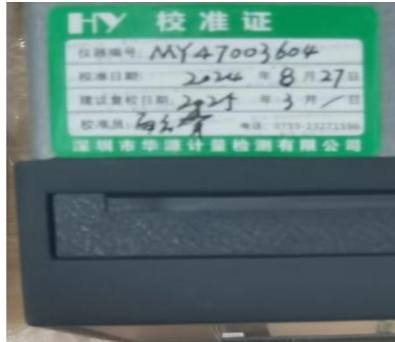
The instrument used in this test: E5071C





The E5071C calibration time stamp:

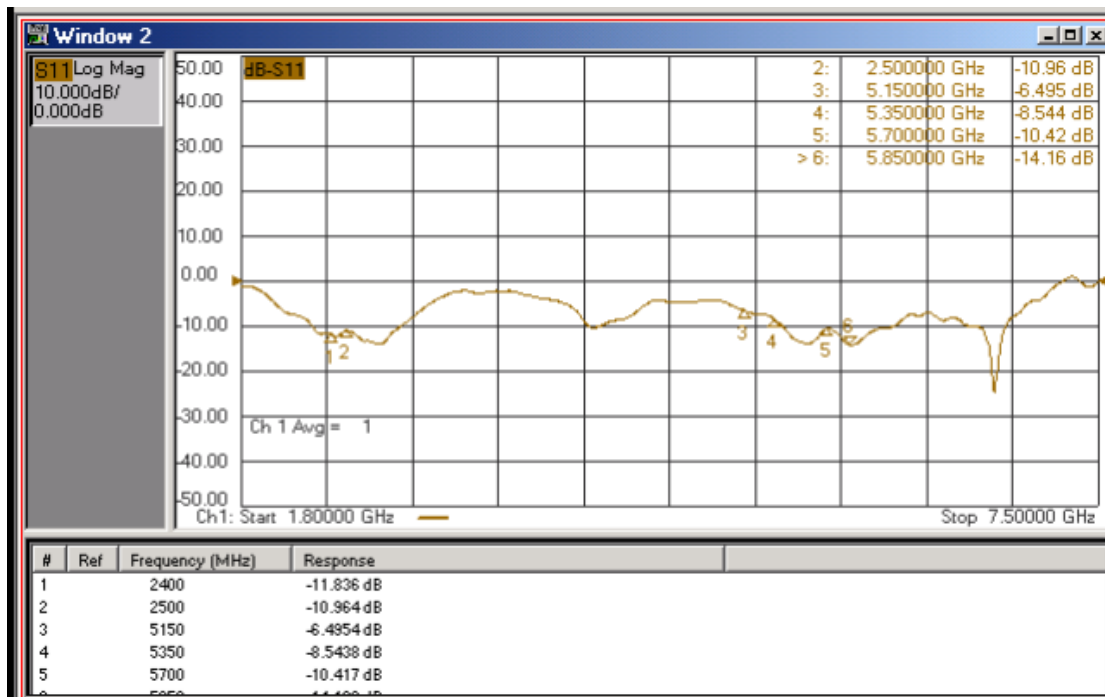
Please refer to the picture for SW version:

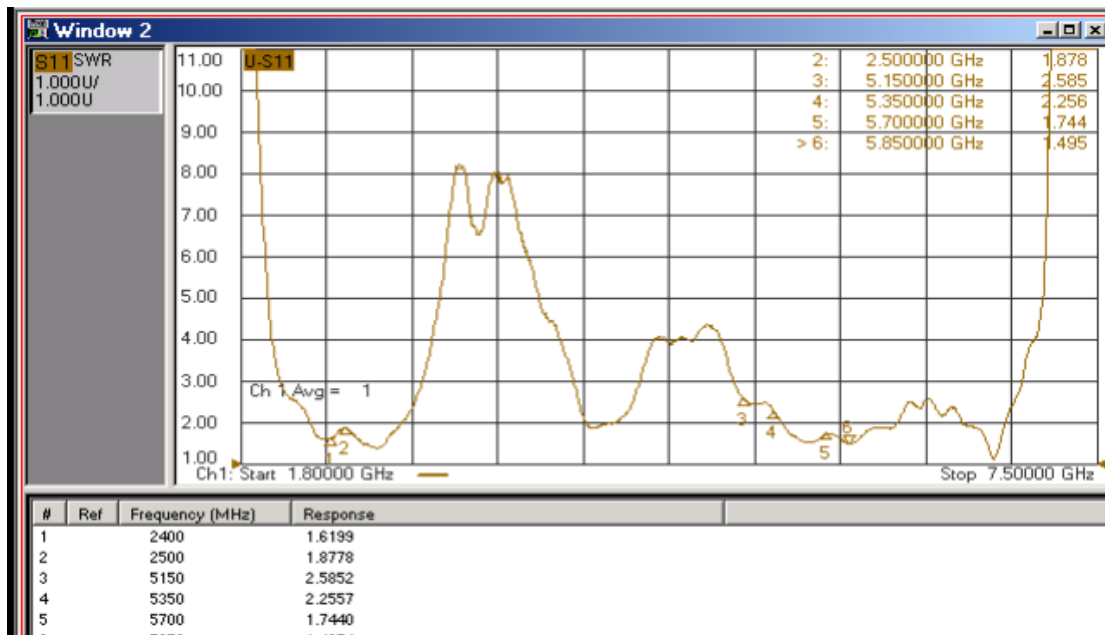


4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2500	5150	5350	570Hz	5850
Returnloss	-11.8	-10.9	-6.5	-8.5	-10.4	-14.1
VSWR	1.62	1.88	2.58	2.25	1.74	1.49





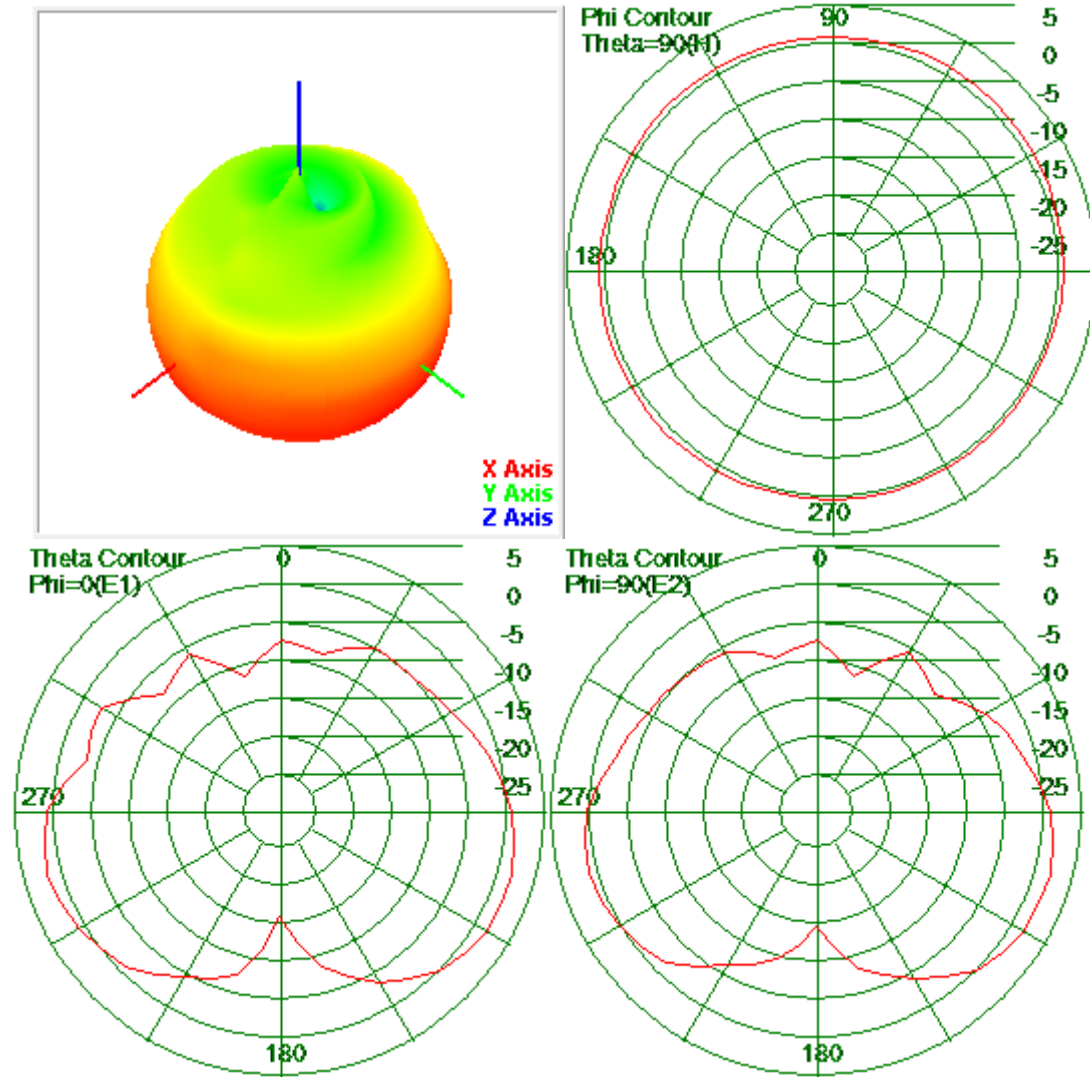
4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.7	64.9
2410.0	2.56	63.7
2420.0	2.43	63.2
2430.0	2.06	59.4
2440.0	2.09	61.8
2450.0	2.13	63.7
2460.0	2.32	67.3
2470.0	2.45	69.0
2480.0	2.57	70.3
2490.0	2.78	73.9
2500.0	2.87	74.5
5150.0	0.96	42.3
5200.0	1.91	49.8
5250.0	2.03	49.5
5300.0	2.30	55.5
5350.0	2.33	54.6
5700.0	3.82	45.1
5750.0	4.93	47.2
5800.0	5.05	48.5
5850.0	6.04	50.5
5900.0	5.70	53.8



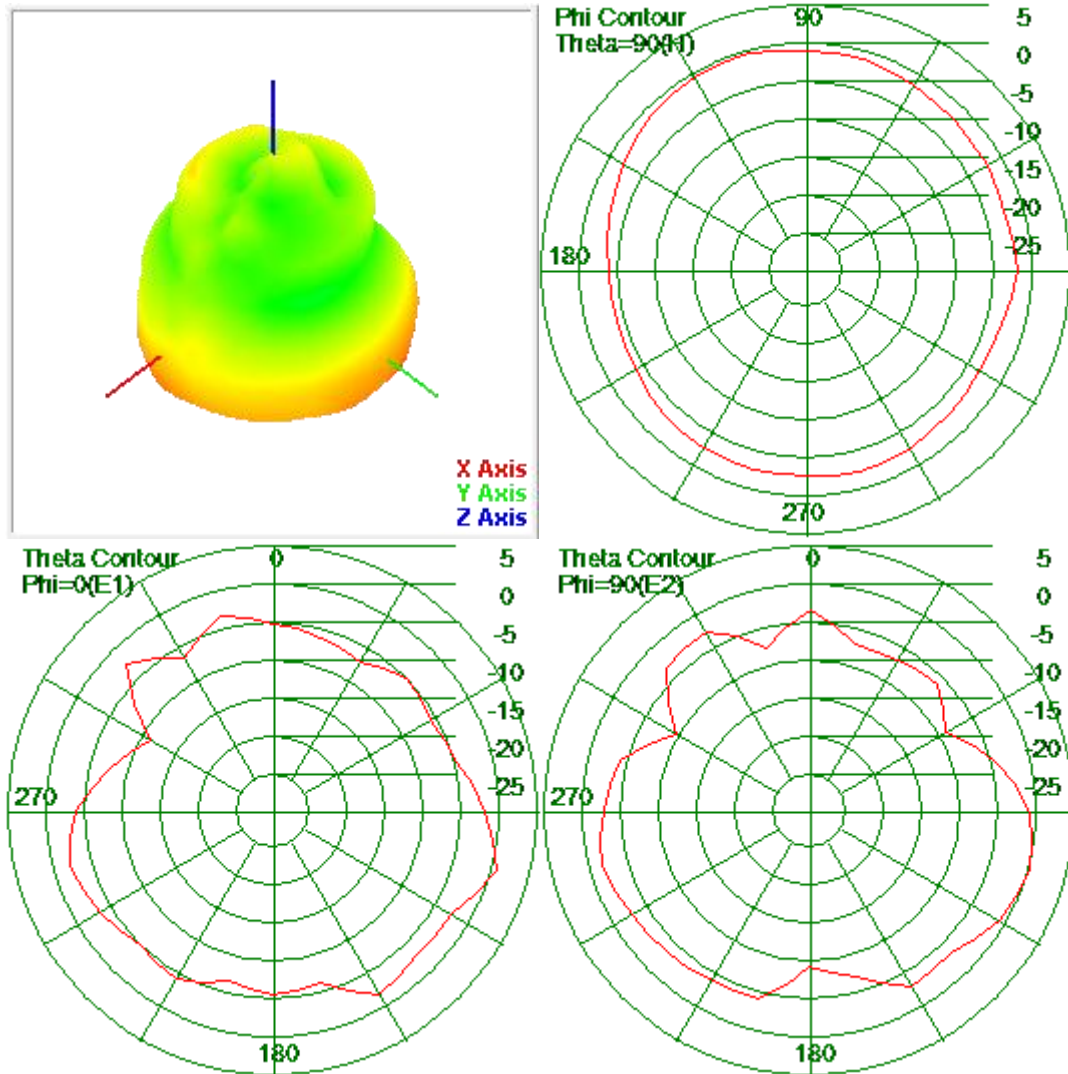
4.22.3 Radiation pattern of antenna:

Frequency: 2450MHz



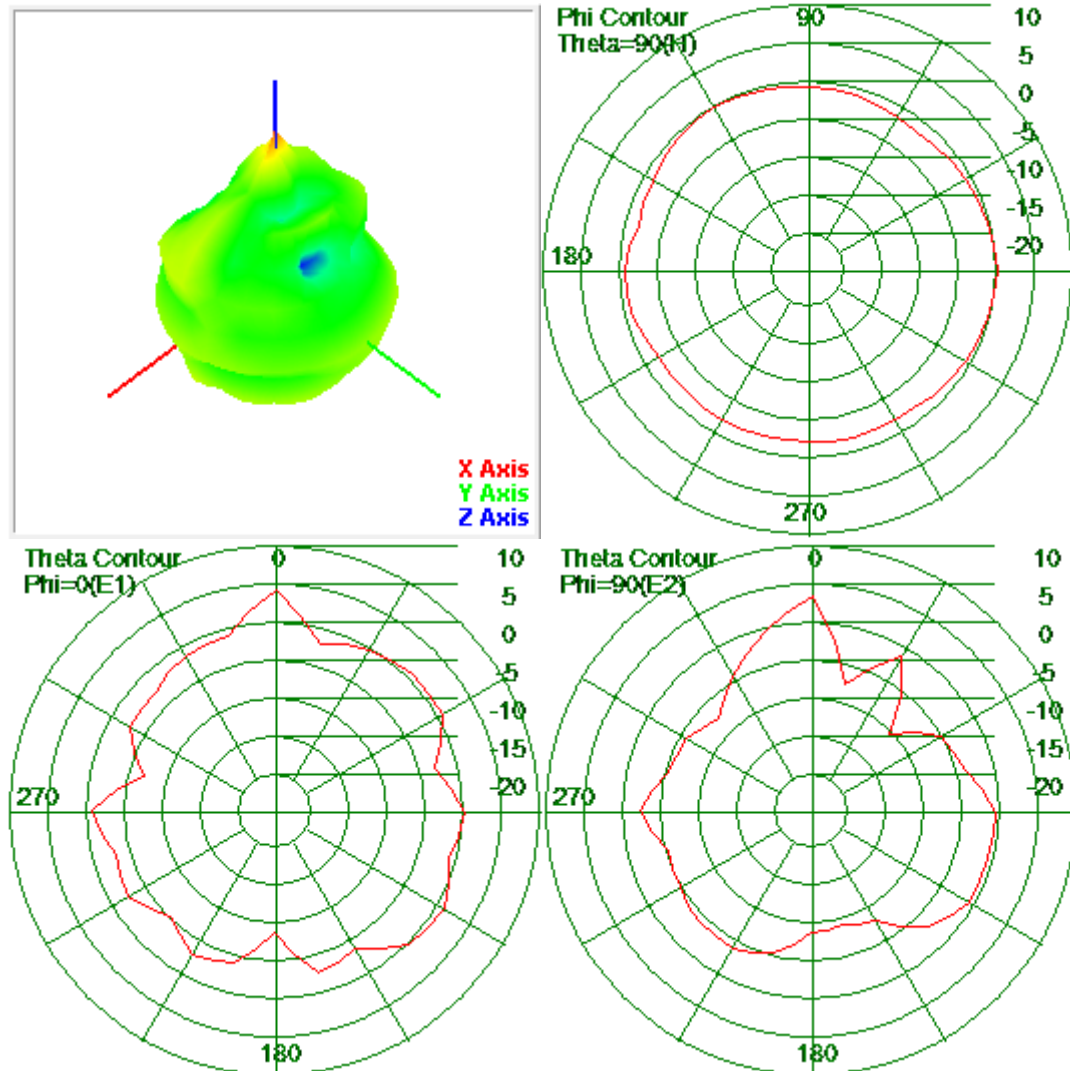


Frequency: 5150MHz





Frequency: 5800MHz



Note: The antenna adhesive stick should be placed parallel to the Z-axis.



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 50 pcs each.

6. Document Resume

Document No.	
Release Date	2026/01/30
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2026/01/30	1.00	New Project