



Shenzhen Shuodian Electronic Technology Co.,Ltd
Page number 1-10

DATASHEET

for

2.4G External antenna

Customer No.

2070100020000

Product No.

SD-0605-2.4G External antenna

Author: XiaofengZeng Review: Liming

Release Date: 2024.05.10

ShenZhen Shuodian Electronic Technology Co., Ltd

Building 201, Building 201, South Taiyun Chuanggu Garden, southeast of the intersection of
Water Green Boulevard Road and Dongchang Road, Fenghuang Street, Tangwei community,
Guangming District, Shenzhen City, Guangdong Province

E-mail: sz_shuodian@163.com

Tel: 18923778989

Shenzhen Shuodian Electronic Technology Co.,Ltd



Contents

<u>SPECIFICATION</u>	
<u>SHENZHEN SHUODIAN ELECTRONIC TECHNOLOGY CO., LTD</u>	<u>1</u>
<u>CONTENTS.....</u>	<u>2</u>
<u>1. BILATERAL CONFIRMATION PAGE.....</u>	<u>3</u>
<u>2. GENERAL.....</u>	<u>4</u>
<u>3. GENERAL PRODUCT SPECIFICATIONS</u>	<u>4</u>
<u>4. SPECIFICATION DETIALS.....</u>	<u>5</u>
<u>4.1 MECHANICAL PROPERTIES.....</u>	<u>5</u>
<u>4.2 ELECTRIC PERFORMANCE</u>	<u>7</u>
<u>5. PRODUCT PACKAGING</u>	<u>10</u>
<u>6. DOCUMENT RESUME.....</u>	<u>11</u>



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

2.4G WiFi buletooth 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	
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤2.0
4	Gain	4.11dBi
5	Radiation Efficiency	≥50%
6	Impedance	50Ω
7	Antenna Type	Glue rod antenna
8	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

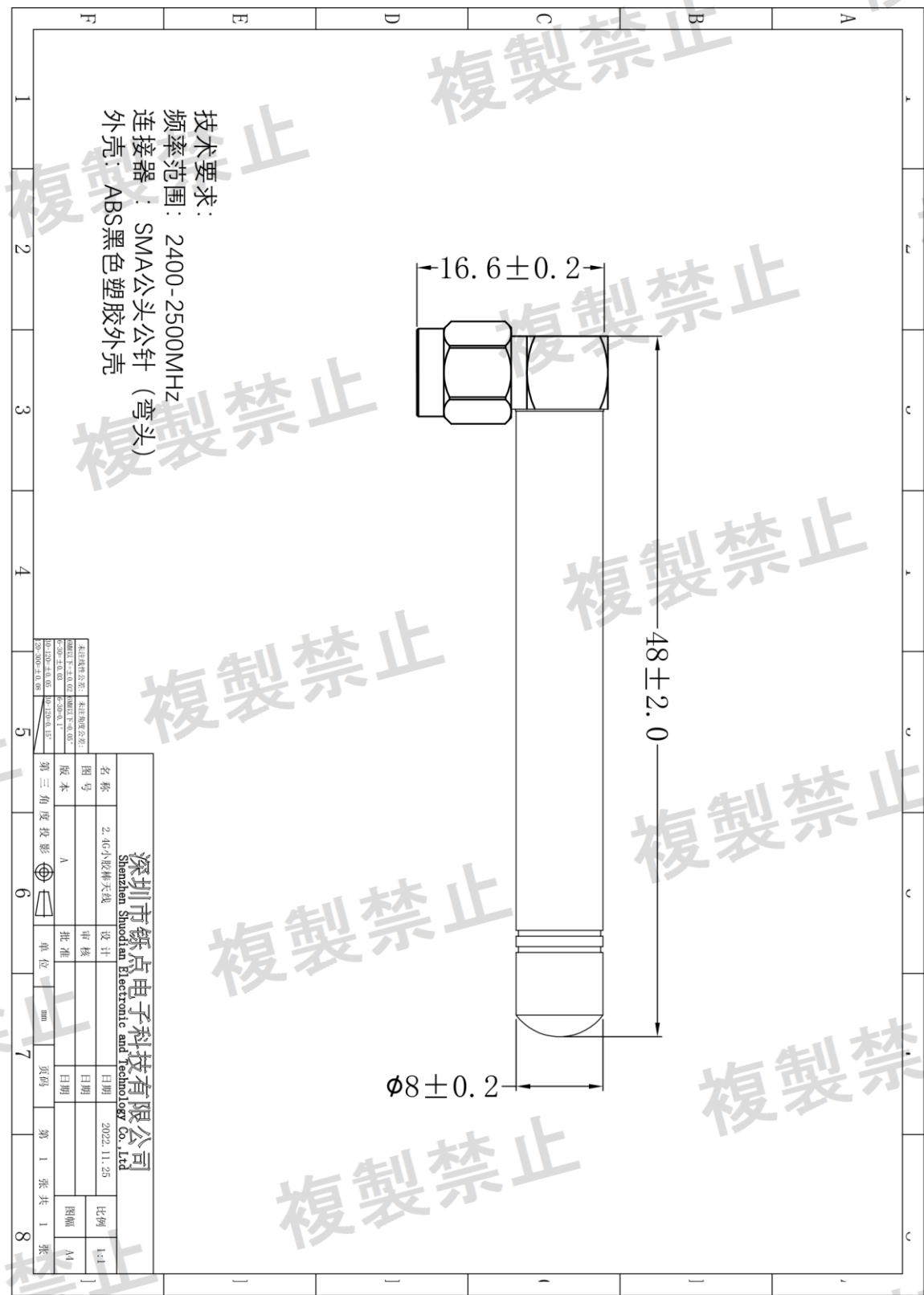
No.	Material	Size (MM)
1	Black rubber shell	40* ϕ 8.0mm
	SMA-J	SMA-J

4.12 Apperance

Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:





4.2 Electric Performance

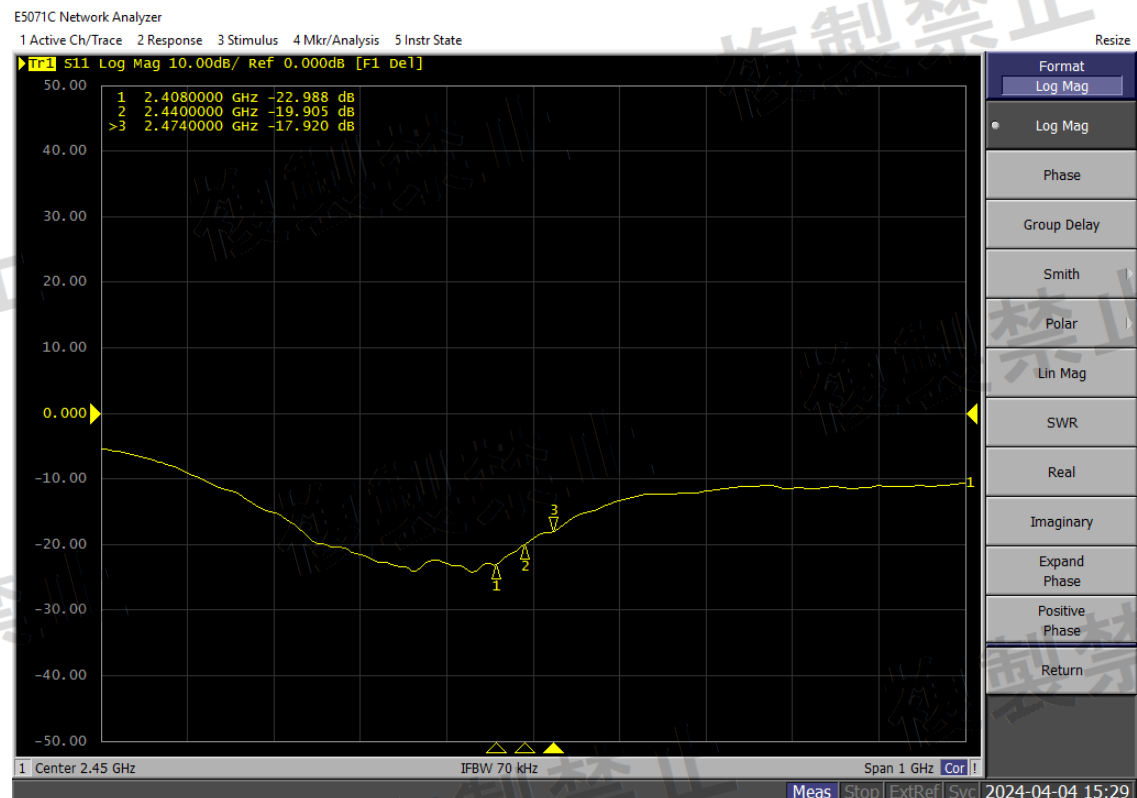
4.21 Test condition

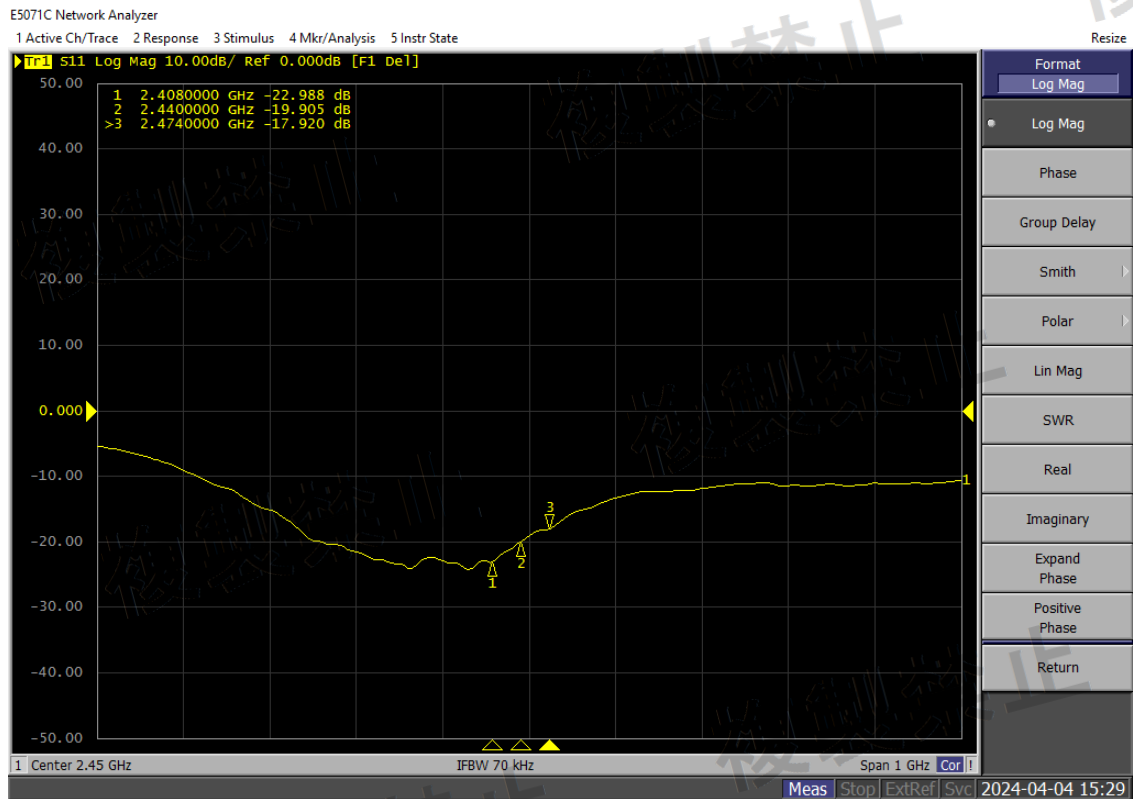
Environment:		Equipment:	
Temperature:	10℃——+30℃	Network Analyzer:	
Humidity:	≤80%（+40℃）	KEYSIGHT E5071C	
Atmospher:	750mmkg±30mmkg	Multi Probe full Anechior Chamber	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2408	2440	2474
Returnloss	-22.9	-19.9	-17.9
VSWR	1.1	1.2	1.2





4.22.2 Passive gain, efficiency and Radiation Pattern:

FreQ. (MHz)	Gain (dBi)	Efficiency (%)
2408	3.53	45.73
2440	3.85	45.9
2474	4.11	47.2

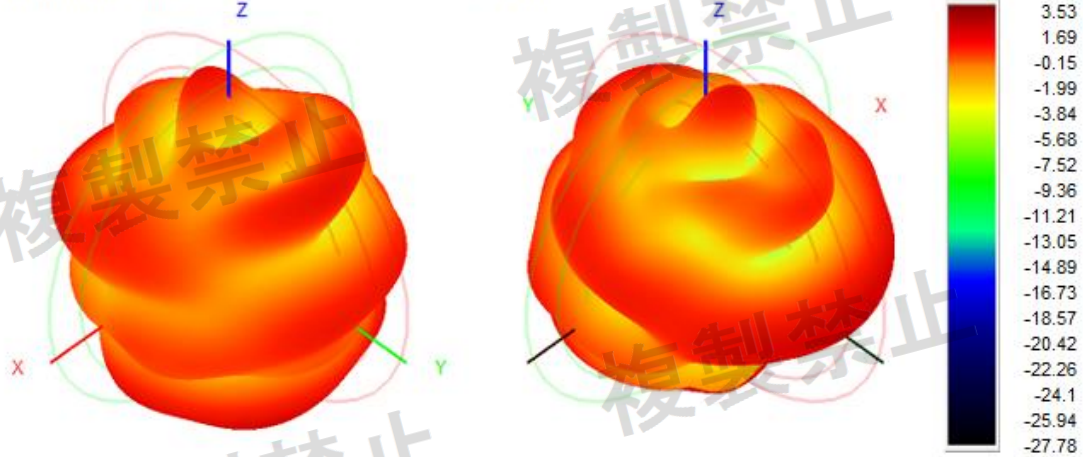
4.22.3

Radiation Pattern 2408MHz



2408.0MHz H+V, Eff: 45.7%

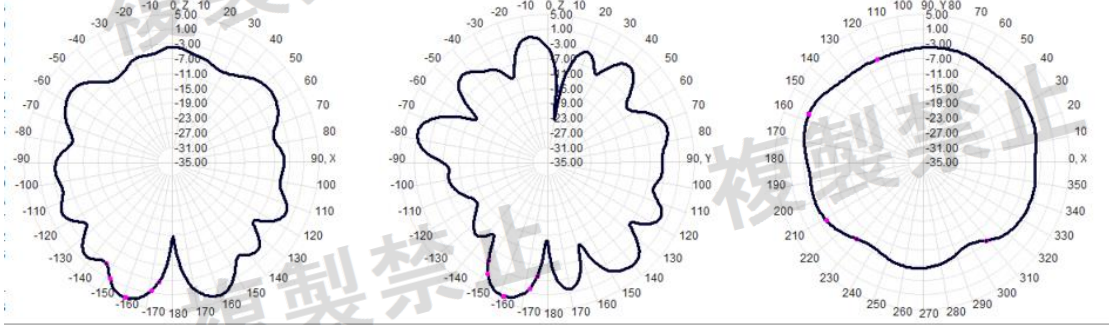
Back View



2408.0MHz Total(E1-XZ), Max= 3.53dBi

2408.0MHz Total(E2-YZ), Max= 2.88dBi

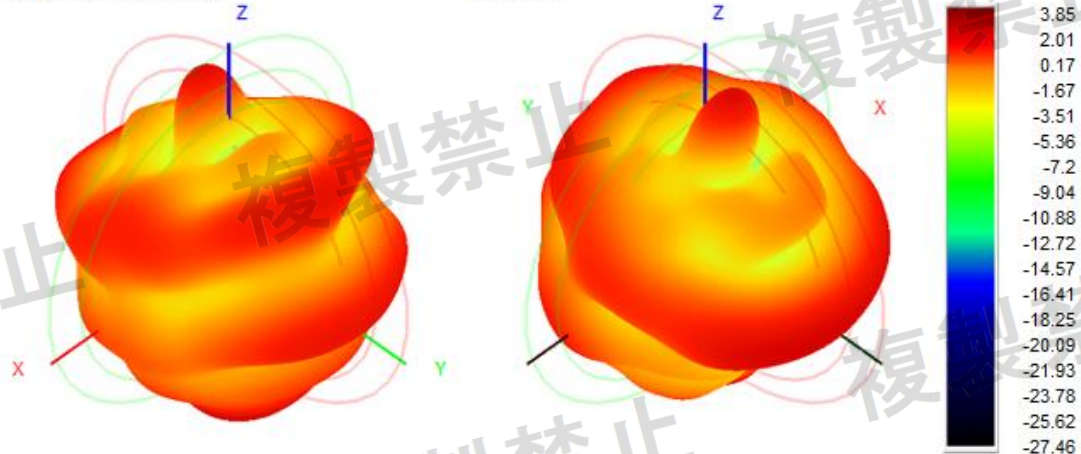
Total(H-XY), Max= -1.63dBi, CirD=7.96

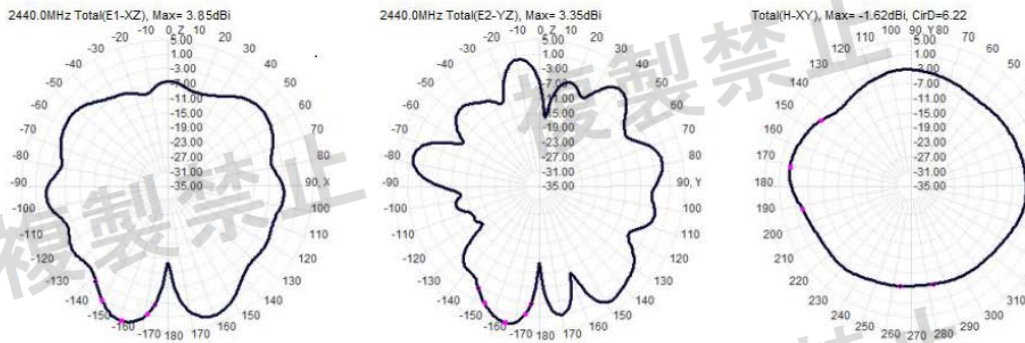


Radiation Pattern: 2440MHz

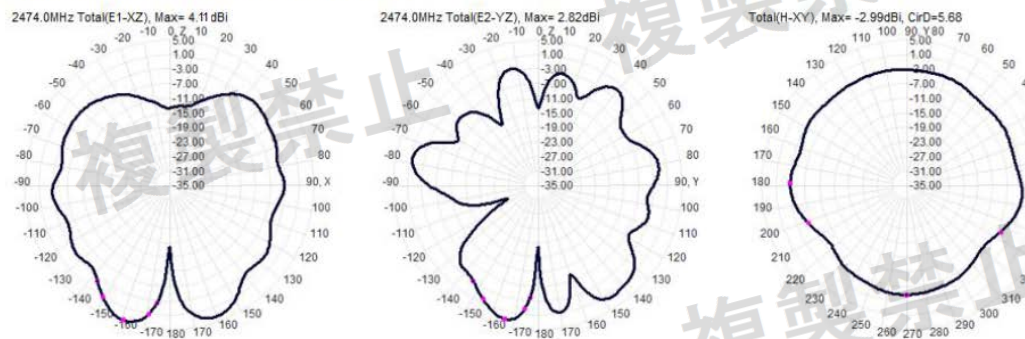
2440.0MHz H+V, Eff: 45.9%

Back View



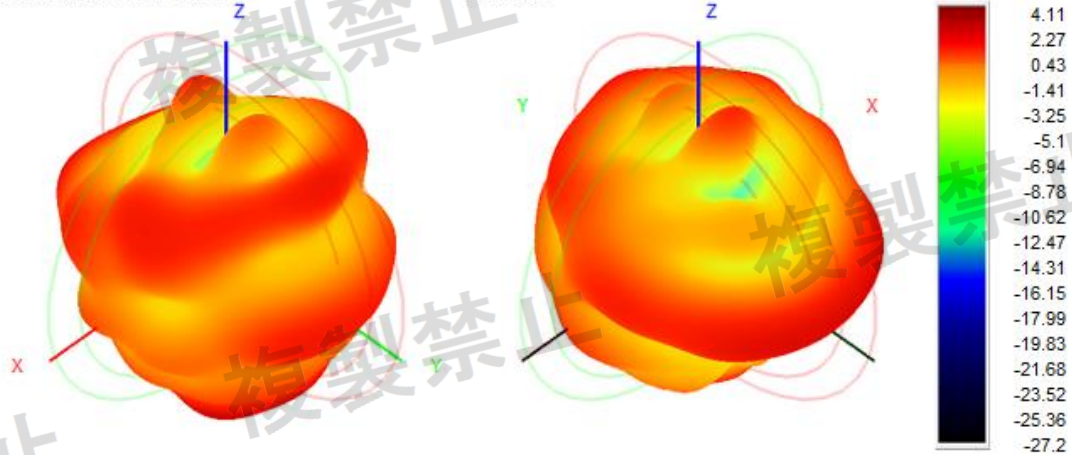


Radiation Pattern: 2474MHz



2474.0MHz H+V, Eff. 47.2%

Back View



5. Product Packaging

Manner of packing:Packed in self sealed bags, 100 pcs each.



6. Document Resume

Document No.	
Release Date	2024/05/10
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2024/05/10	1.00	New Project