



datasheet

for

PPAS104.B1 2.4G ANT

客户料号

本公司料号

KEWT-PPAS104.B1 V1.0 2.4G-ANT-CABLE

编制：曾小凤 审核：李明
日期： 2023. 10. 09 深圳市铄点电子科技有限公司

Shenzhen Shuodian Electronic Technology Co.,Ltd

深圳市南山区马家龙金龙工业城 64 栋西 508

邮箱：sz_shuodian@163.com

电话：0755-86006322

传真：0755-86006323



2. General

2.1 Scope of Application

PPAS104.B1 2.4G antenna


2.2 Operating temperature range

This product use temperature range $-20 \sim +65 \text{ }^{\circ}\text{C}$

2.3 storage temperature range

This product is stored at $-30 \sim +75 \text{ }^{\circ}\text{C}$

3.General product specification

NO	ITEMS	DETAILS
1	type	PPAS104.B1
2	frequency band	2400-2500MHz
3	VSWR	≤ 2.5
4	GAIN	2dBi
5	impedance	50 Ω
6	Antenna type	monopole
7	Antn implementation form	Cable
8	Antenna picture	



4.Product specification detail

4.1 Product structure parameter

4.11 Product material composition:

serial number	materials	Size (MM)
1	coaxial line	First generation terminal, black wire, total length 195
2	transparent casing	$\Phi 3.2*180$ (inner diameter 1.6)

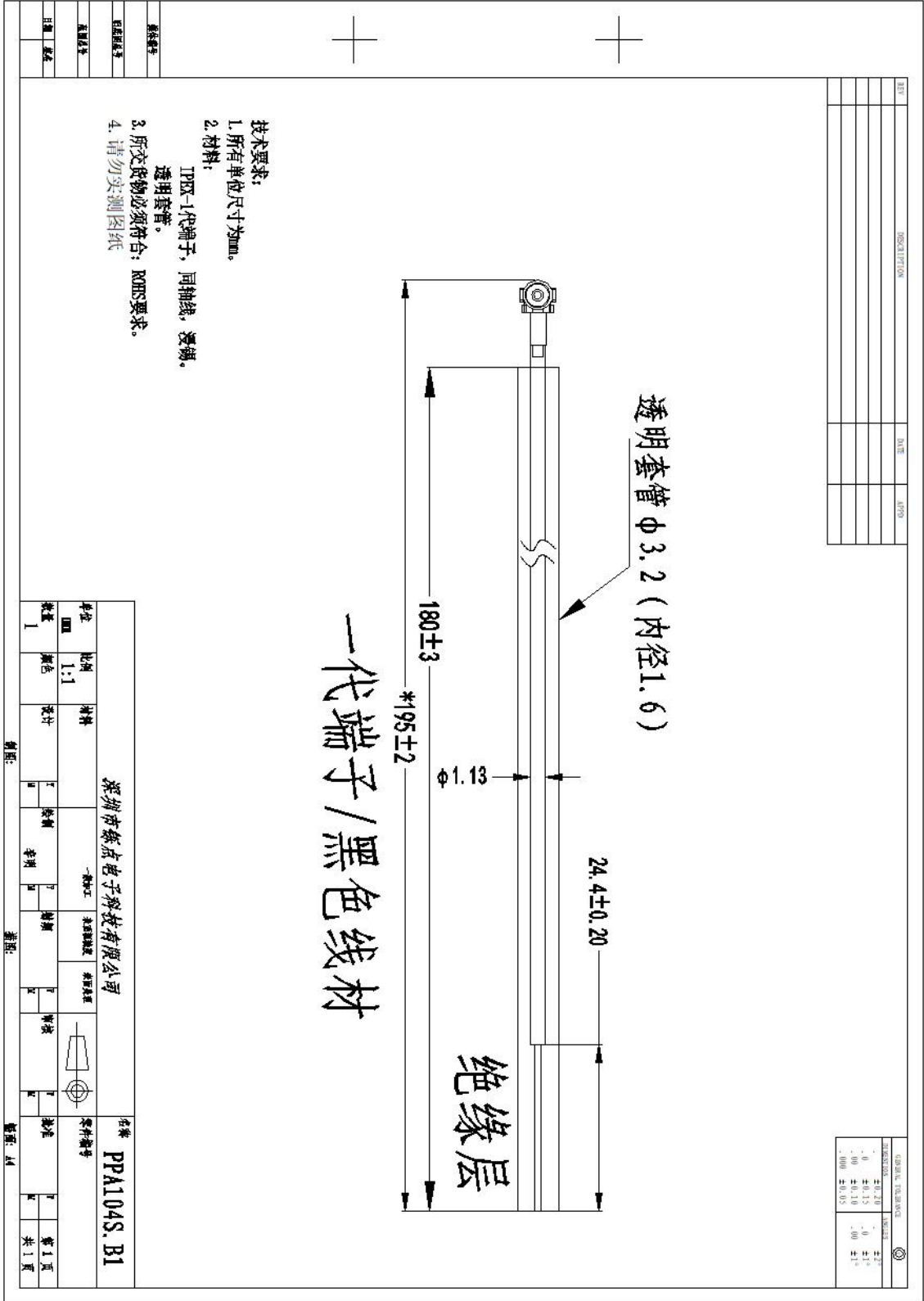
appearance

4.12 The product has good appearance, no scars, sweat, protrusions and other defects that seriously affect the appearance.

4.13 structure size



产品图纸:





4.2 Product electrical performance test data

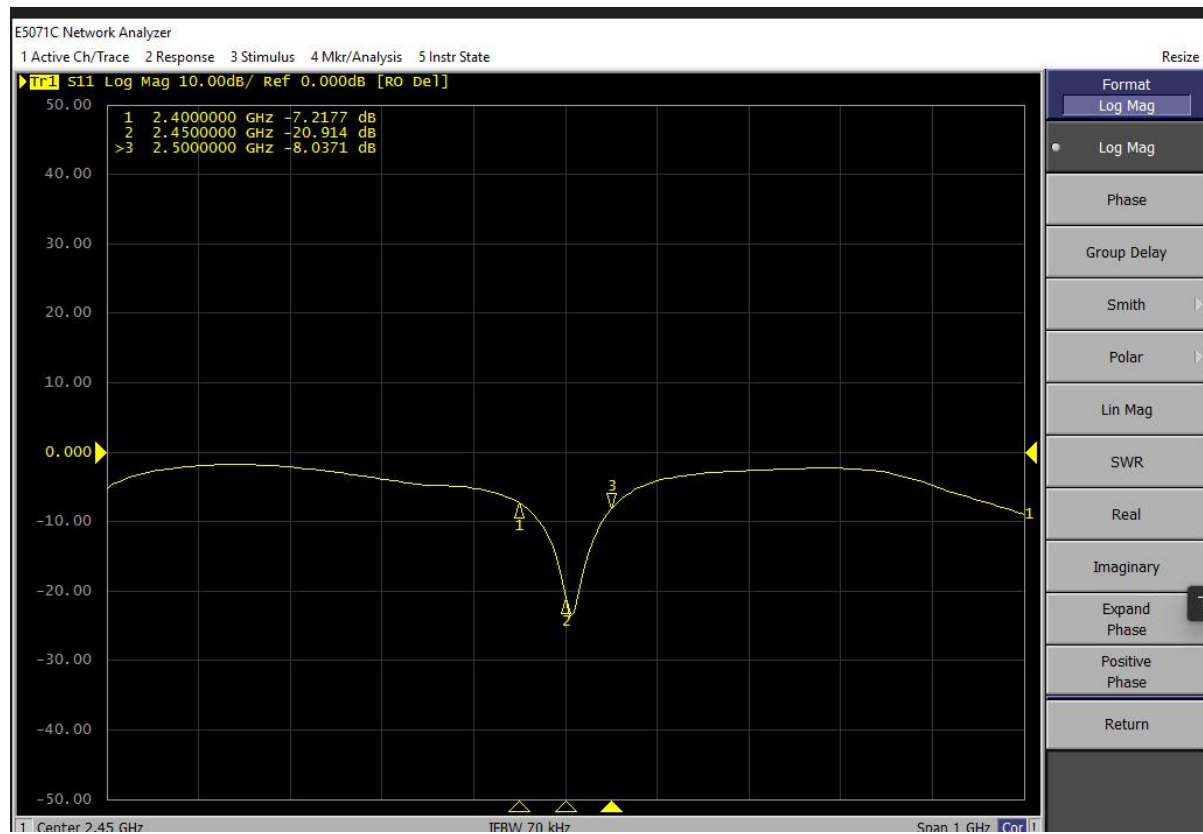
4.21 Test environment and instruments

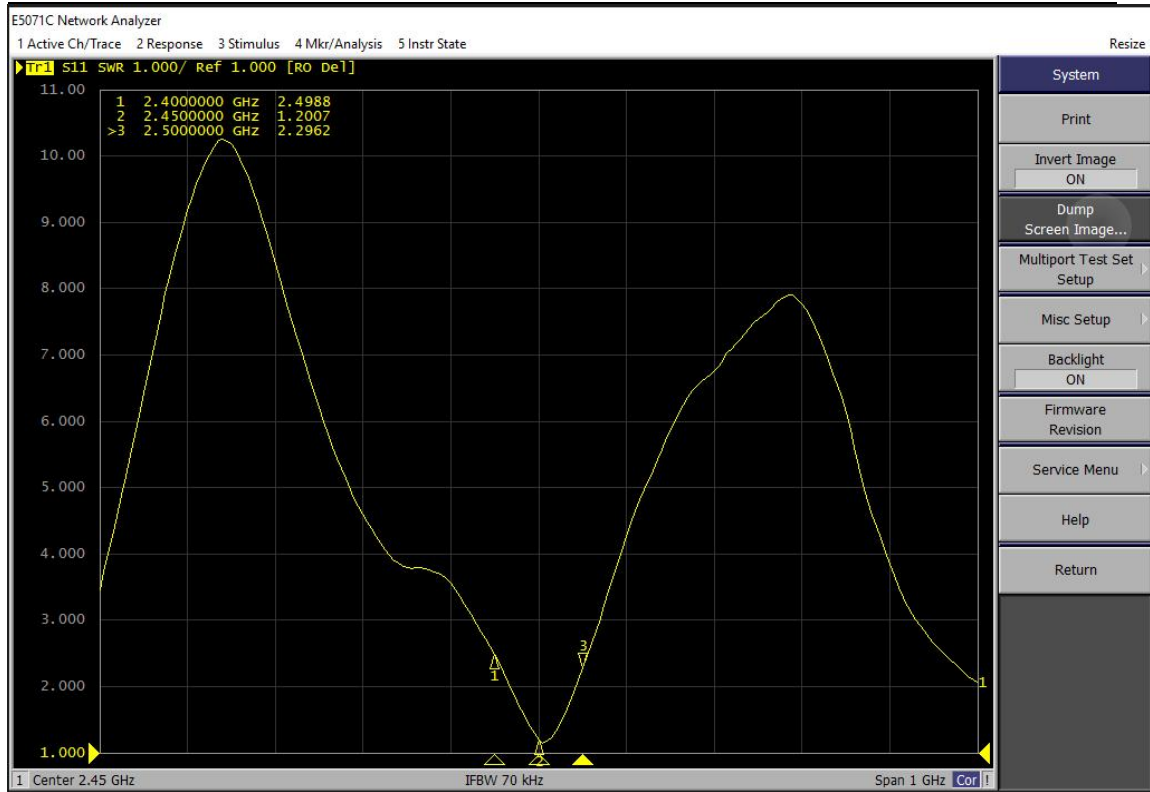
testing environment	test equipment
Temperature: 10°C -- +30°C Relative humidity: ≤80% (+40°C) Atmospheric pressure: 750mmkg±30mmkg	Network analyzer KEYSIGHT E5071C multi-probe microwave darkroom

4.22 Product electrical performance test

data: product S11 figure:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-7.21	-20.9	-8.03
VSWR	2.49	1.20	2.29

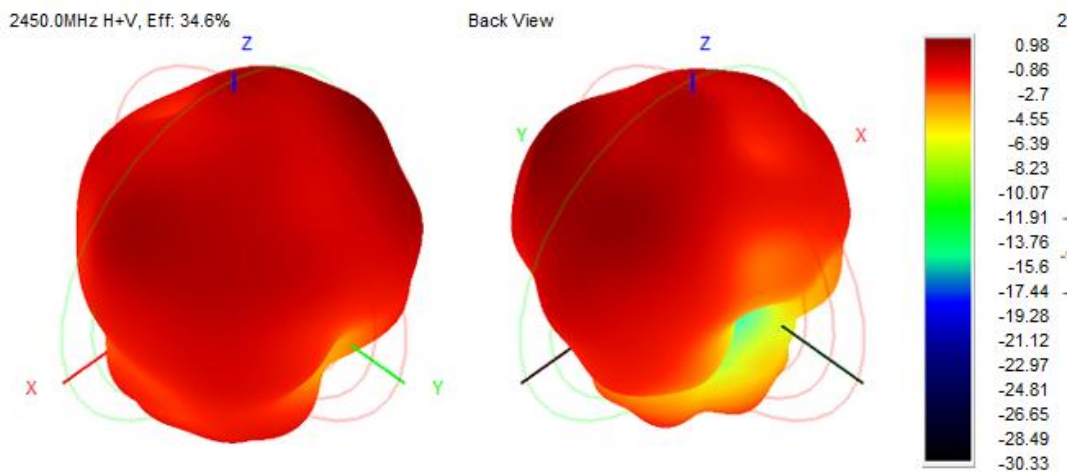


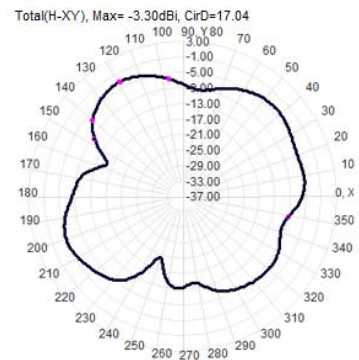
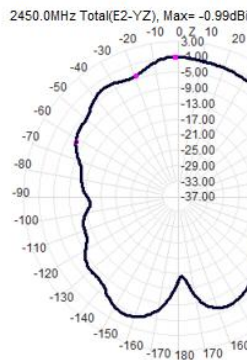
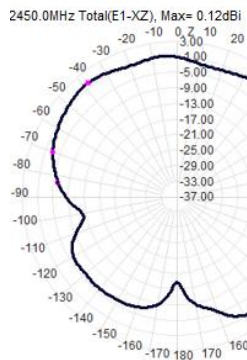


4.22.2 Gain, efficiency and radiation pattern

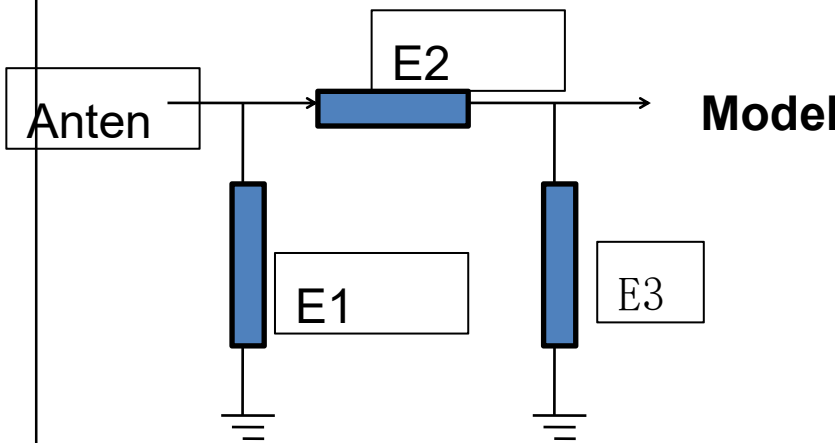
频率 (GHz)	2.4	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.5
Gain (dBi)	-0.72	-0.64	-0.08	0.35	0.72	0.98	0.95	0.73	0.52	0.22	0.01
Efficiency (%)	29.8	30.5	31.6	32.1	33.2	34.5	34.9	34.1	33.3	32.2	31.3

4.22.3 Radiation pattern: Frequency 2450MHz





4. 22. 4 Antenna matching circuit



Matched component values:

E1	NC
E2	0 Ω
E3	3.3nH

3.3nH



5. manner of packing

manner of packing

Self-sealing bag, 200PCS per pack.

6. Document resume

文件编号 Document No.	
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编制 Author	Hungjie
复核 Review	WH

文件历次表

Revised History

Date	Version	Revised Record
2023/10/09	1.00	New Project
