

SPECIFICATION

Shenzhen Feixin Wireless Communication



深圳飞芯无线通讯有限公司

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G copper tube Antenna

Product specification

Customer		Frequency	2400MHz——2500MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2025-07-31

Customer confirmation:

Whether the assembly meets your company's requirements: OK NG

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.

Directory

Cover	1
1、 Directory.....	2
2、 Product pictures	3
3、 S11 data	4
4、 Antenna passive test data:.....	4
5、 Product structure drawing.....	9

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.

1、Product pictures



2、Product parameters

Product testing parameters			
产品名称(Name)	2.4G copper tube Antenna	产品型号(Model Type)	FX-2.4-2DB-TG-L50-1
电性能指标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHZ	极化方式 (Polarization)	垂直(vertical)
输入阻抗(Impedance)	50 Ω	辐射方向 (Radiation direction)	全向(Omnidirectional)
驻波比 (VSWR)	≤3.0	功率容量(Power)	\
增益(Gain)	0dBi	带宽 (Bandwidth)	100
机械指标 (Mechanical Specifications)			
尺寸 (Dimensions)	99.5*5.0±1 mm	天线颜色(Ant Color)	black
连接器型号 (Connector)	IPEX 1D	引线长度(Cable Length)	50±3 mm
天线材料 (Ant Material)	FPC		
工作温度 (Working Temperature)	-40°C - +85°C	存放温度 (Limit Temperature)	-40°C - +85°C

Shenzhen Company: 3rd Floor, Building A, Changjing Robot Industrial Park, Guanhu Street, Longhua District, Shenzhen
Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:

+86-021-34711533

<http://www.flxant.com>

<http://www.fly-core.com>

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.

3. VSWR, Return loss and Smith data



(1) Antenna efficiency and gain:

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	-1.66	52.1%
<u>2</u>	2410.0	-0.83	43.1%
<u>3</u>	2420.0	-1.32	47.9%
<u>4</u>	2430.0	-1.47	43.3%
<u>5</u>	2440.0	-1.68	47.1%
<u>6</u>	2450.0	0.00	49.3%
<u>7</u>	2460.0	-1.92	48.0%
<u>8</u>	2470.0	-1.57	49.3%
<u>9</u>	2480.0	-0.76	43.6%
<u>10</u>	2490.0	-1.40	48.0%
<u>11</u>	2500.0	-1.02	43.3%

Shenzhen Company: 3rd Floor, Building A, Changjing Robot Industrial Park, Guanhu Street, Longhua District, Shenzhen
 Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:

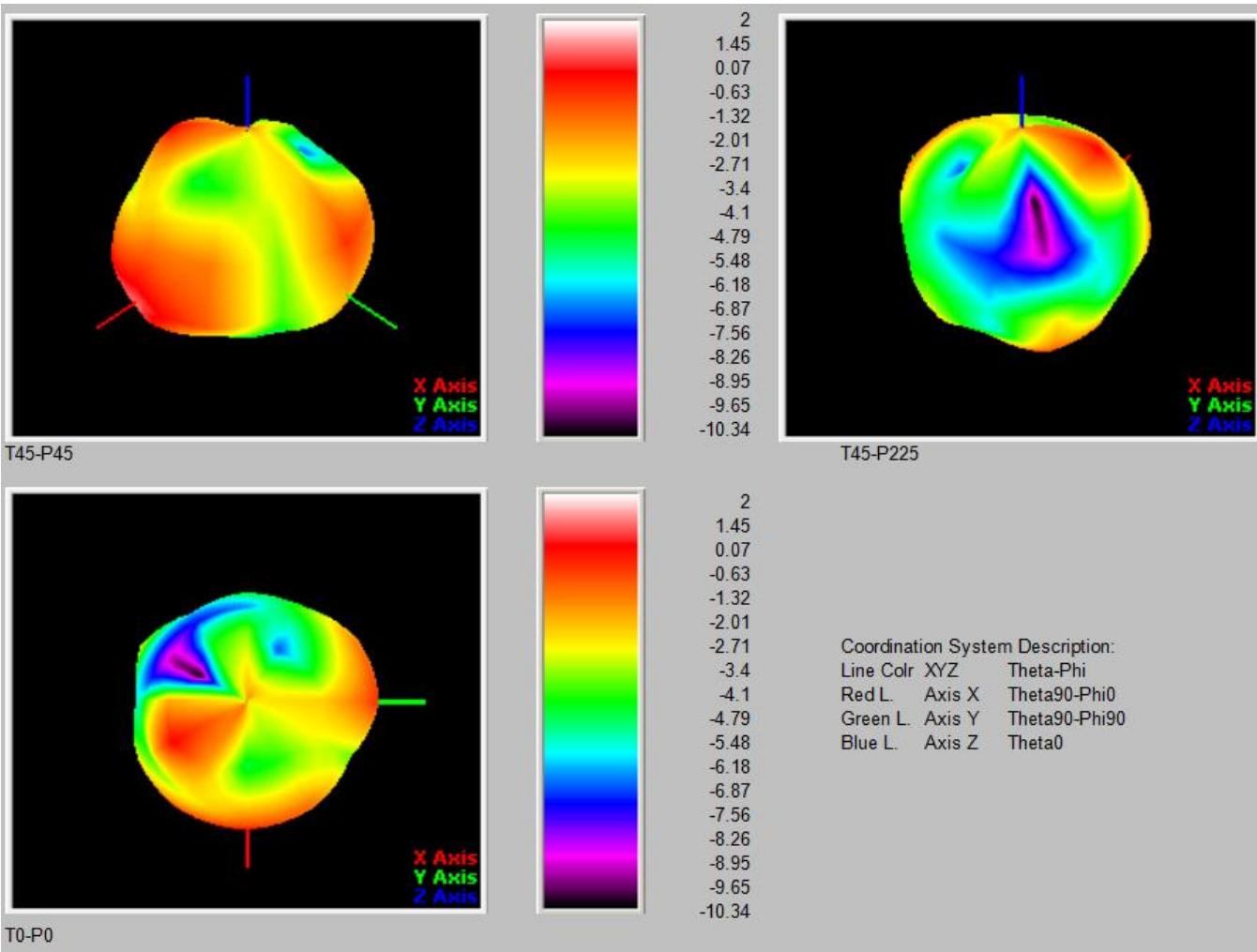
+86-021-34711533

<http://www.flxant.com>

<http://www.fly-core.com>

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.

Passive-Freq2450.00MHZ



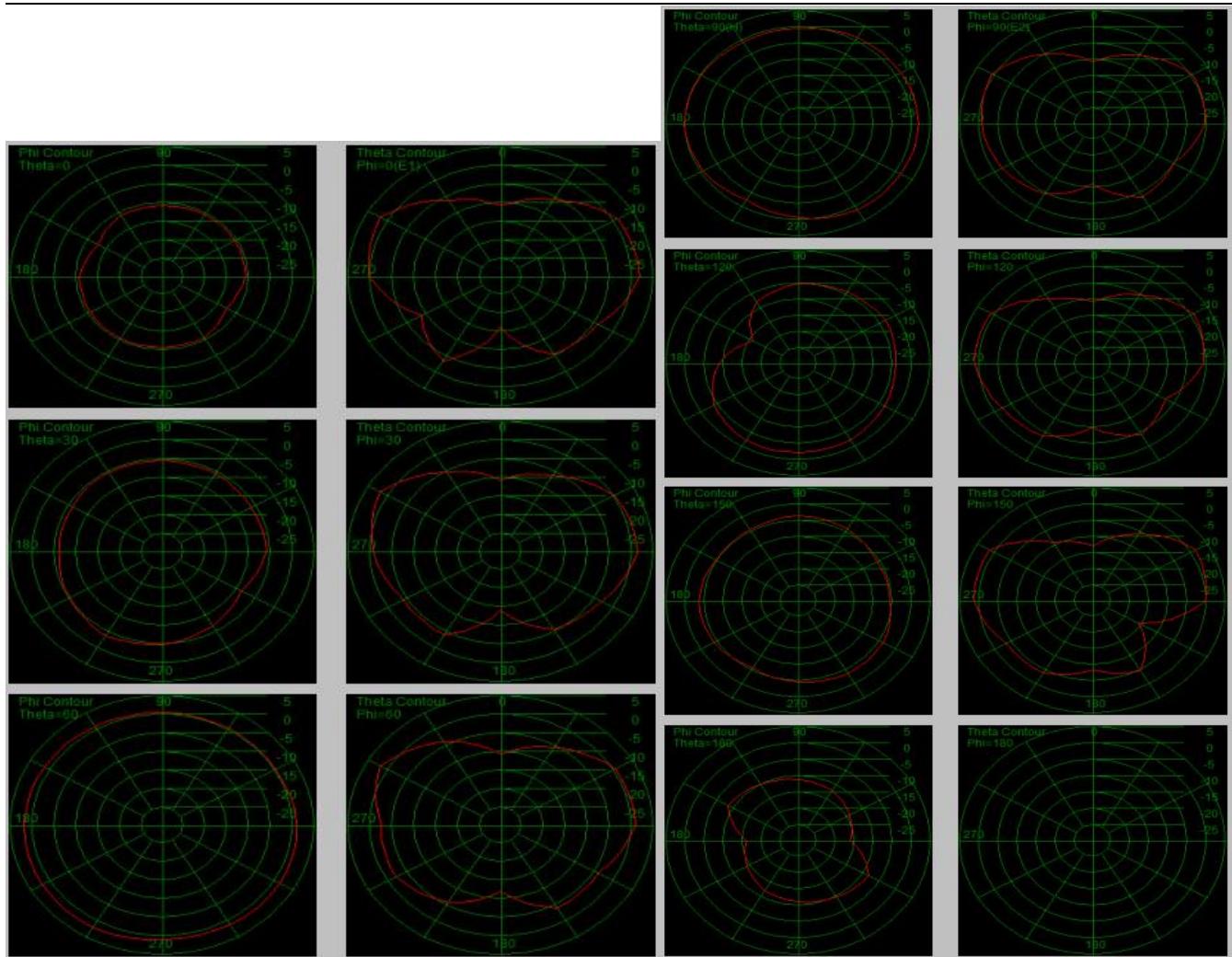
Shenzhen Company: 3rd Floor, Building A, Changjing Robot Industrial Park, Guanhu Street, Longhua District, Shenzhen
Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:

+86-021-34711533

<http://www.flxant.com>

<http://www.fly-core.com>

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.



Shenzhen Company: 3rd Floor, Building A, Changjing Robot Industrial Park, Guanhu Street, Longhua District, Shenzhen
Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:

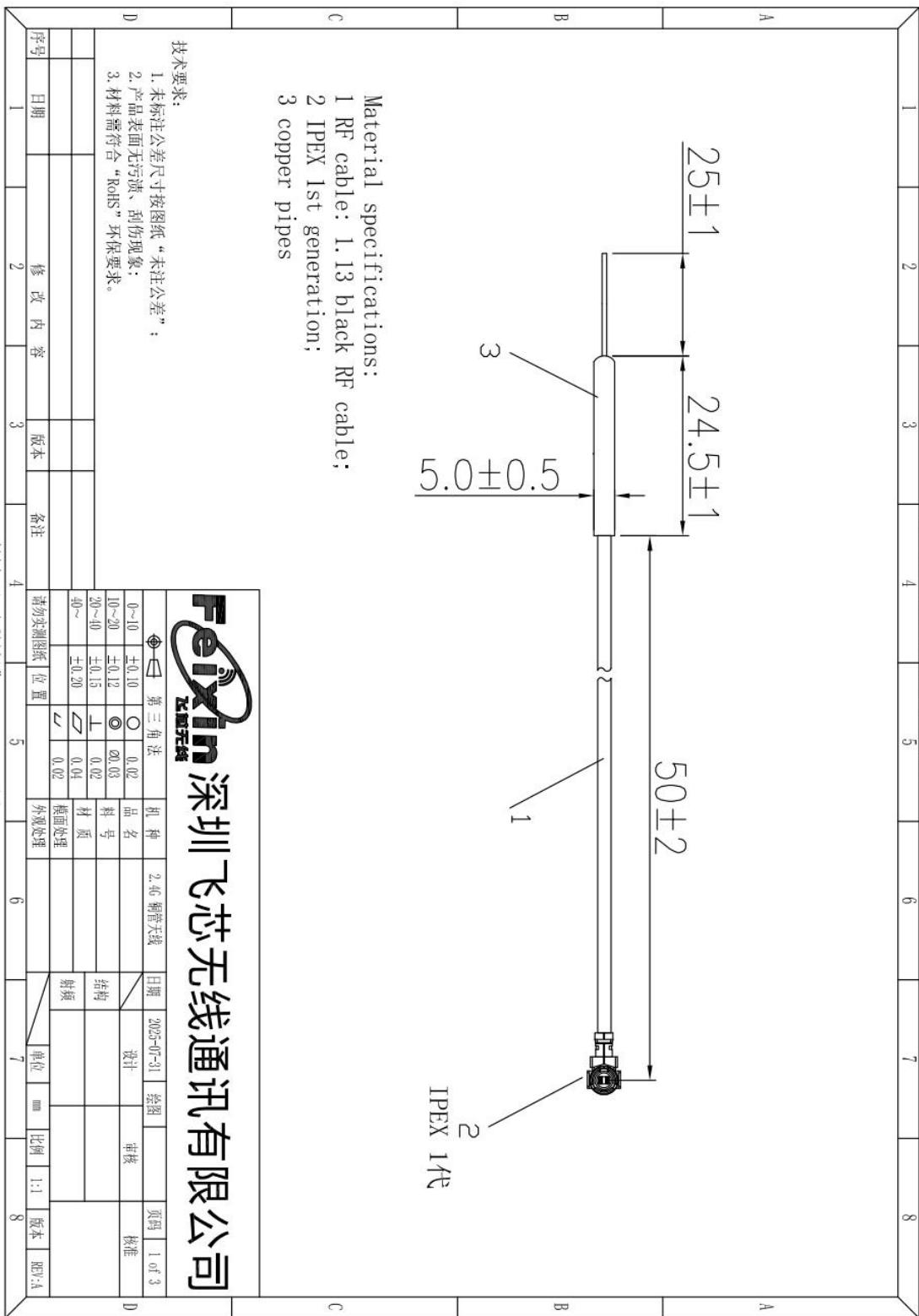
+86-021-34711533

<http://www.flxant.com>

<http://www.fly-core.com>

The information provided by the proprietary technology already owned by the Company shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Shenzhen Feixin Wireless Communication Co., LTD.

4、Product structure drawing



Shenzhen Company: 3rd Floor, Building A, Changjing Robot Industrial Park, Guanhu Street, Longhua District, Shenzhen
 Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:

+86-021-34711533

<http://www.flxant.com>

<http://www.fly-core.comPage>