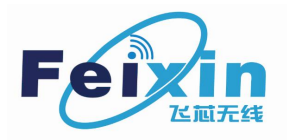


SPECIFICATION

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

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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 \pm 1 mm	天线颜色(Ant Color)	black
连接器型号 (Connector)	IPEX 1D	引线长度(Cable Length)	50 \pm 3 mm
天线材料 (Ant Material)	FPC		
工作温度 (Working Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C	存放温度 (Limit Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C

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3. VSWR, Return loss and Smith data

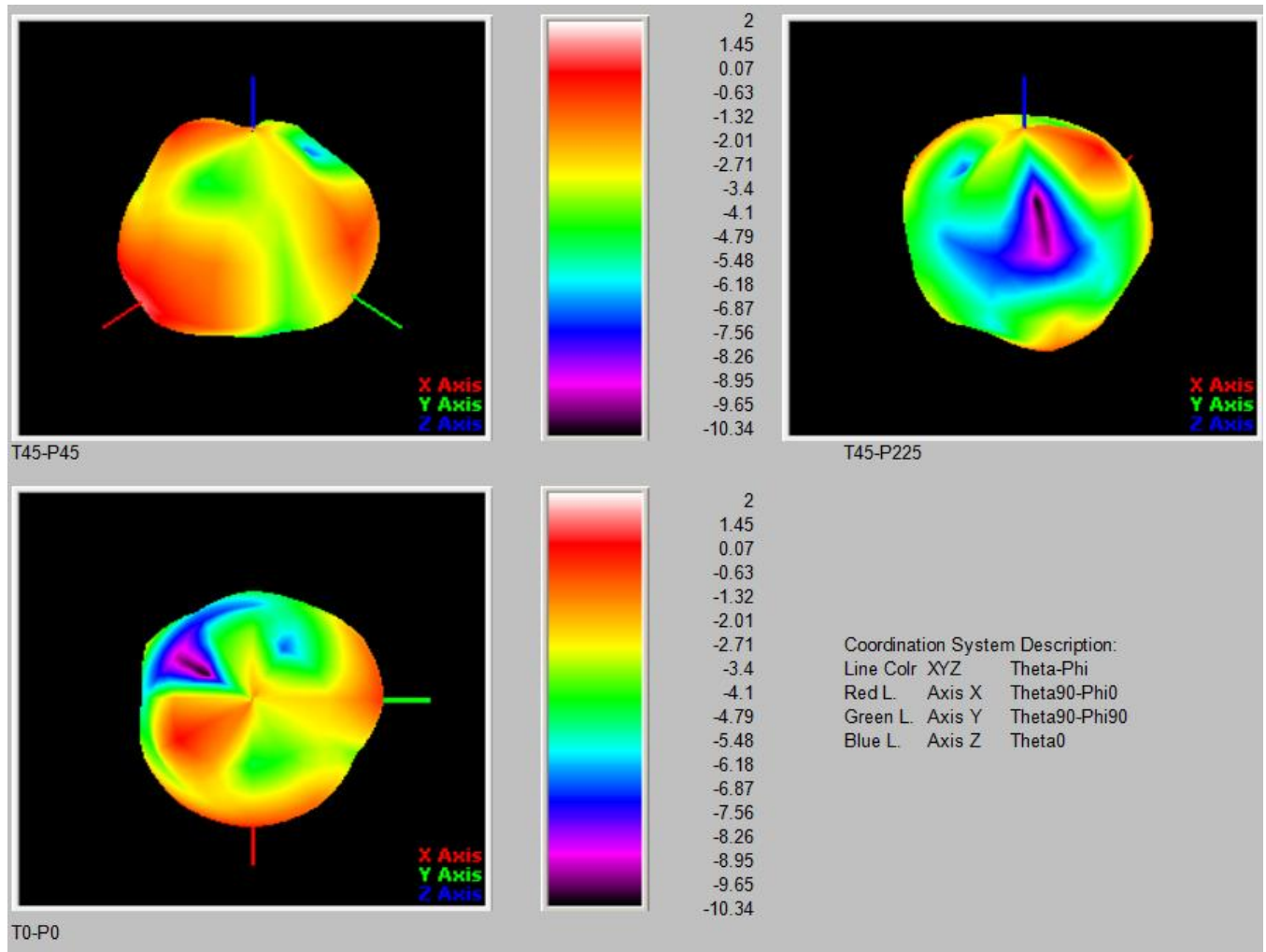


(1) Antenna efficiency and gain:

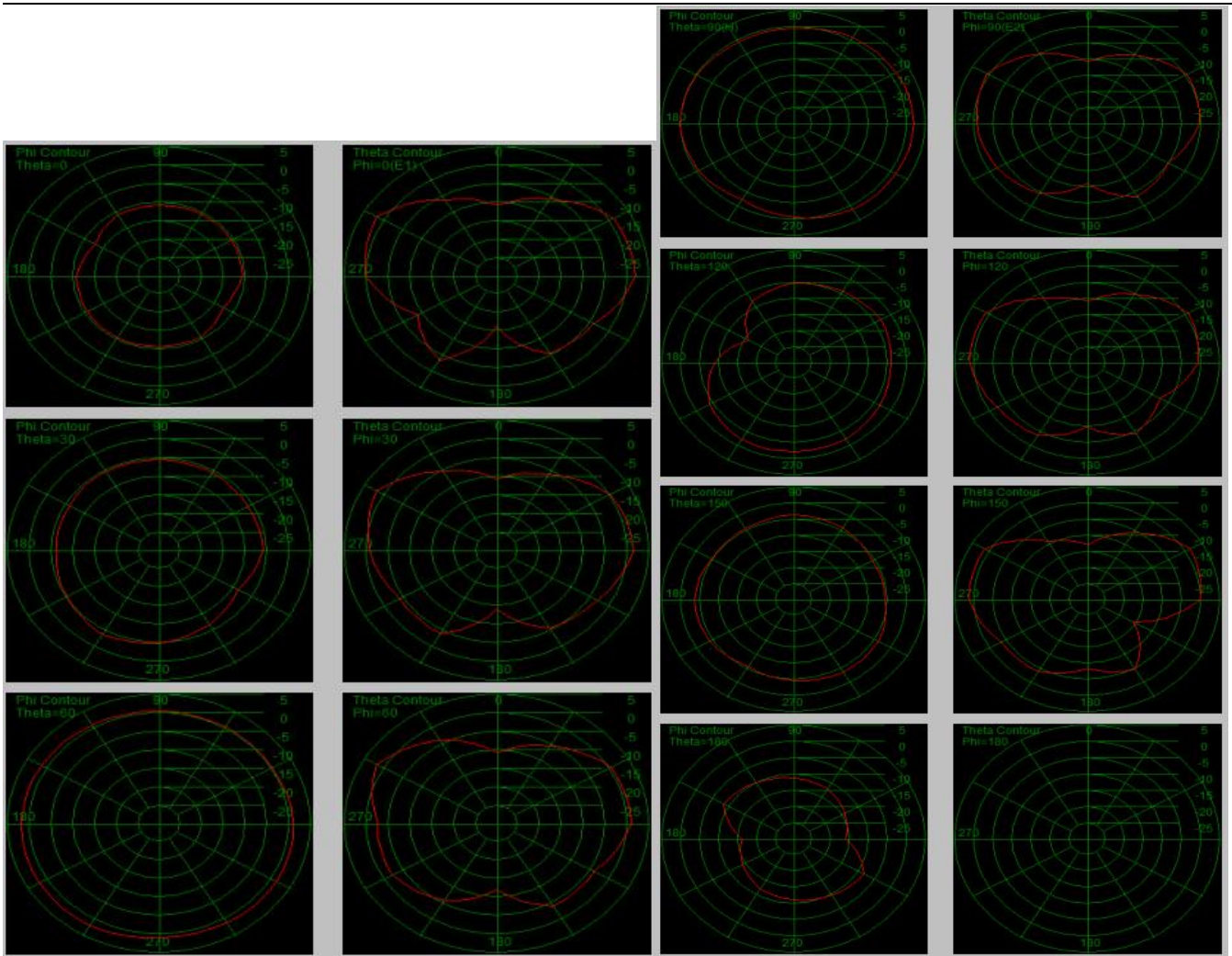
Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	-1.66	52.1%
<u>2</u>	2410.0	-0.83	43.1%
<u>3</u>	2420.0	-1.32	47.9%
<u>4</u>	2430.0	-1.47	43.3%
<u>5</u>	2440.0	-1.68	47.1%
<u>6</u>	2450.0	0.00	49.3%
<u>7</u>	2460.0	-1.92	48.0%
<u>8</u>	2470.0	-1.57	49.3%
<u>9</u>	2480.0	-0.76	43.6%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

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 Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax: +86-021-34711533

Passive-Freq2450.00MHZ



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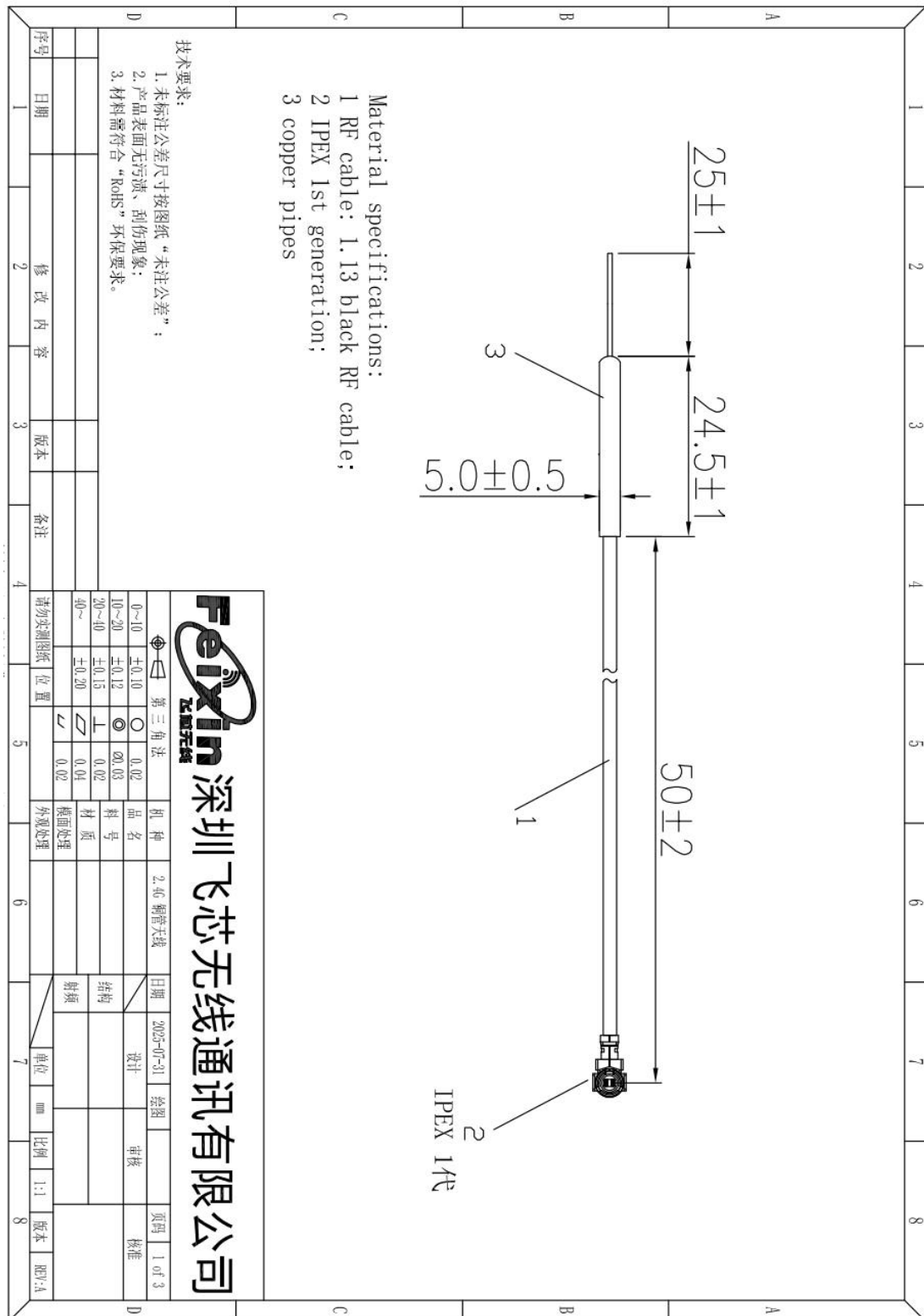
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<http://www.flxant.com>

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

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4、Product structure drawing



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