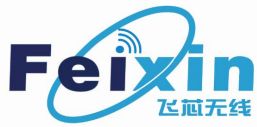


SPECIFICATION

Shenzhen Feixin Wireless Communication



深圳飞芯无线通讯有限公司

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G FPC antenna Product specification

| | | | |
|---------------------------|----------|------------------|------------------|
| Customer | | Frequency | 2400MHz——2500MHz |
| R F design | XIAO BIN | Version | A1 |
| Technical director | ANDY | date | 2023-04-23 |

Customer confirmation:

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

Directory

| | |
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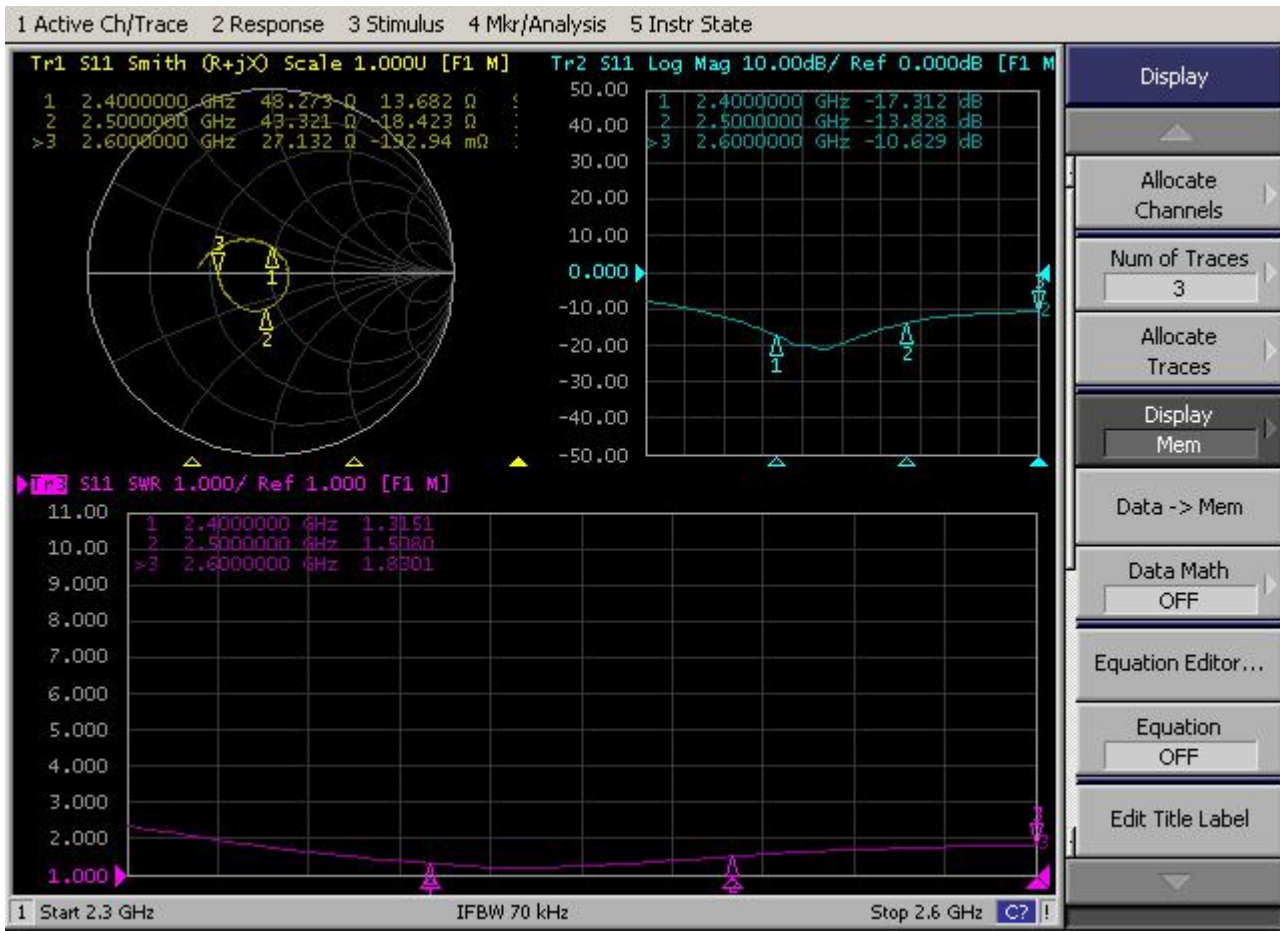
1、Product pictures



2、Product parameters

| 产品测试参数 | | | |
|-----------------------------------|------------------|----------------------------|---------------------|
| 产品名称(Name) | 2.4G FPC antenna | 产品型号(Model Type) | FX-1014010017 |
| 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) | 50W |
| 增益(Gain) | 3.46dBi | 带宽 (Bandwidth) | 100MHZ |
| 机械指标 (Mechanical Specifications) | | | |
| 尺寸 (Dimensions) | 41.2*8±0.15 mm | 天线颜色(Ant Color) | black |
| 连接器型号 (Connector) | 4 IPEX | 引线长度(Cable Length) | 200±3 mm |
| 天线材料 (Ant Material) | FPC | | |
| 工作温度 (Working Temperature) | -40℃--+85℃ | 存放温度 (Limit Temperature) | -40℃--+85℃ |

3. VSWR, Return loss and Smith data



4. Antenna passive test data:

(1) Antenna efficiency and gain:

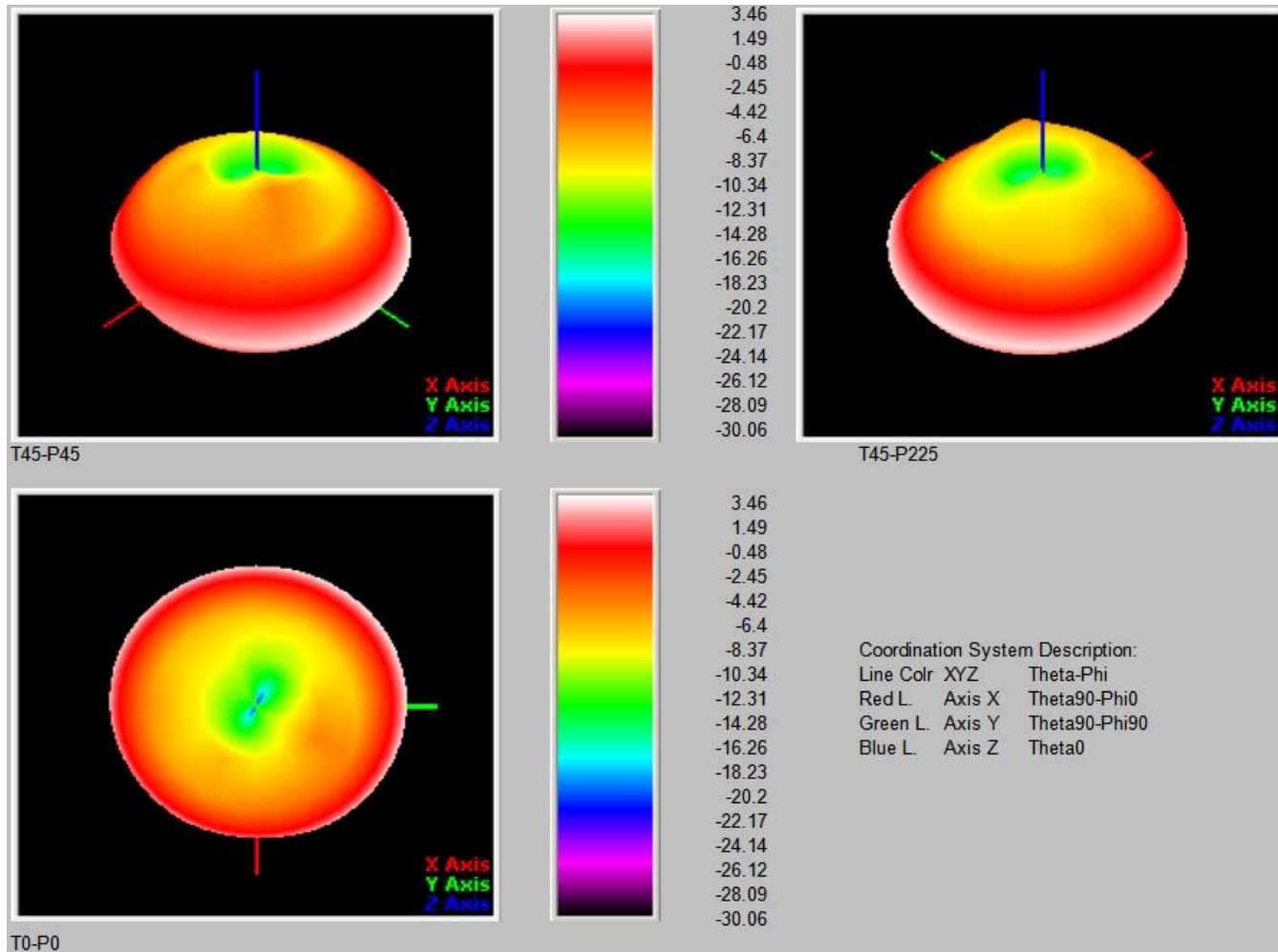
| Test Point ID | Freq. (MHz) | TRP (dBm) | Gain (dBi) | Directivity (dBi) | Efficiency (%) |
|---------------|-------------|-----------|------------|-------------------|----------------|
| 1 | 2400.0 | 2400.00 | 3.46 | 5.18 | 43.2% |
| 2 | 2410.0 | 2410.00 | 2.95 | 4.69 | 44.7% |
| 3 | 2420.0 | 2420.00 | 3.39 | 4.99 | 45.4% |
| 4 | 2430.0 | 2430.00 | 2.67 | 4.59 | 46.2% |
| 5 | 2440.0 | 2440.00 | 2.84 | 4.61 | 45.8% |
| 6 | 2450.0 | 2450.00 | 2.69 | 4.50 | 47.3% |
| 7 | 2460.0 | 2460.00 | 2.69 | 4.39 | 46.9% |
| 8 | 2470.0 | 2470.00 | 2.62 | 4.54 | 45.8% |
| 9 | 2480.0 | 2480.00 | 2.37 | 4.26 | 45.0% |
| 10 | 2490.0 | 2490.00 | 2.65 | 4.42 | 44.3% |
| 11 | 2500.0 | 2500.00 | 2.29 | 3.98 | 43.9% |

(2) Apple chart and direction chart

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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 - Freq2400.00 MHZ



Passive-Freq2450.00MHZ

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