

SPECIFICATION

Shenzhen Feixin Wireless Co munication



Shenzhen Feixin Wireless Communications Co., LTD

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2.4G FPC antenna

1.13 grey wire L70mm 1st generation IPEX terminal

Product Specifications

client	Shenzhen Chuangze Vision Technology Co.,LTD	frequency range	2400-2500MHz
product name	2.4G FPC antenna	edition	A1
Customer part number	TX. 0092	Feicimia	FX-RR-2.4G-FPC- V1.0
product description	2.4G long strip FPC antenna FX-RR-2.4G-FPC-V1.0, 1.13 gray wire L70mm, 1st generation IPEX terminal;		
RF design	Chen Liang	Radio Frequency Manager	Jin Yong
architectural design	Xie Kaijun	Structural Manager	Chen Xiaohua
Technical Director	Xiao Dong	date	2023-11-01

Customer confirmation:

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

CLASSIFICATIONS

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

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Shenzhen company: Shenzhen Longhua District Guanhu Street Changjing Robot Industrial Park A Floor 3

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

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I. Product Pictures**II. Product Parameters**

Product test parameters			
Product Name (Name)	2.4G FPC antenna	Product model (Model Type)	FX-RR-2.4G-FPC-V1.0
Electrical performance indicators (Electrical specifications)			
Frequency range (Frequency Range)	2400-2500MHZ	Polarization mode (Polarization)	Perpendicular
Input impedance (Impedance)	50 Ω	radiation direction	omnidirectional
VSWR (returning wave ratio)	≤ 3.0	Power capacity (Power)	50W
gain (Gain)	1.82dBi	Bandwidth (Bandwidth)	100MHz
Mechanical specifications (MS)			
Dimensions (	38.8*12 $\pm$ 0.15 mm	Antenna color (Radome Color)	black
Connector model (Connector)	1 take the place of IPEX	Lead length (Cable Length)	70 $\pm$ 3 mm
Antenna material Radome Material	FPC		
working temperature (Working Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C	Storage temperature (Limit Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C

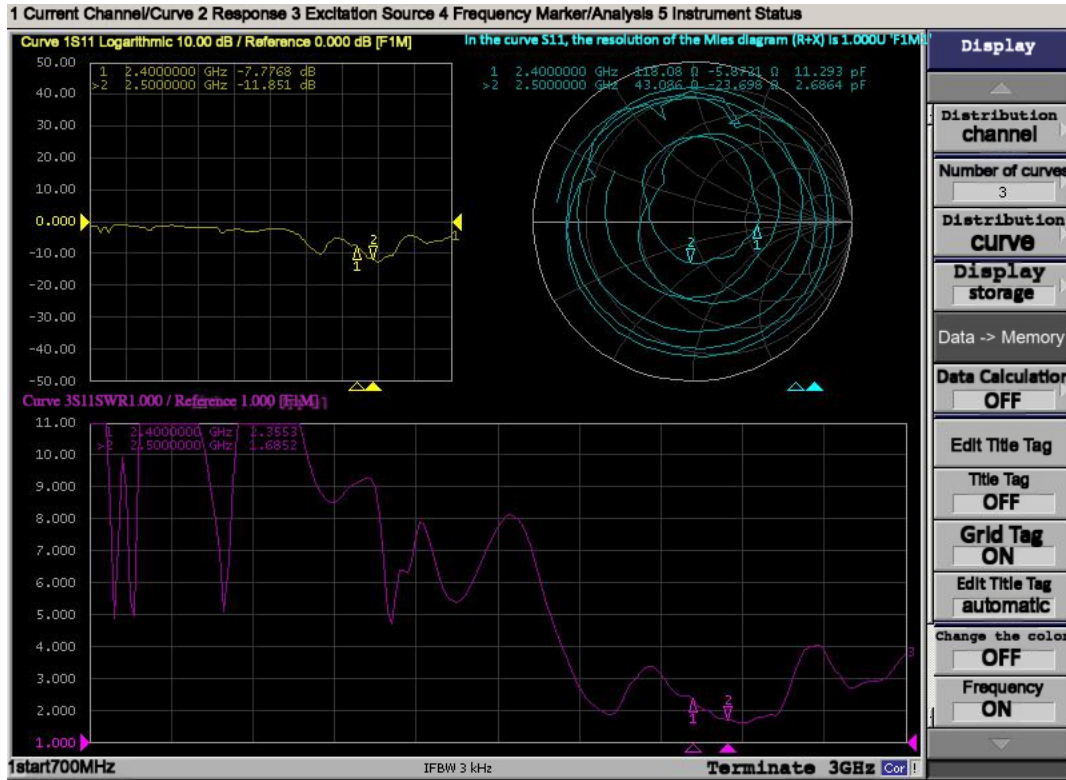
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III. S11 (VSWR, Return Loss, Smith)Data



IV. Antenna Passive Test Data:

(1) Antenna Efficiency and Gain:

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)
1	2400.0	2400.00	1.82	43.4%
2	2410.0	2410.00	1.45	42.0%
3	2420.0	2420.00	1.21	44.0%
4	2430.0	2430.00	1.05	43.8%
5	2440.0	2440.00	1.16	41.5%
6	2450.0	2450.00	1.35	41.5%
7	2460.0	2460.00	1.71	43.7%
8	2470.0	2470.00	1.74	41.6%
9	2480.0	2480.00	1.48	47.7%
10	2490.0	2490.00	1.34	44.8%
11	2500.0	2500.00	1.27	44.0%

(2) Apple Diagram and Direction Diagram

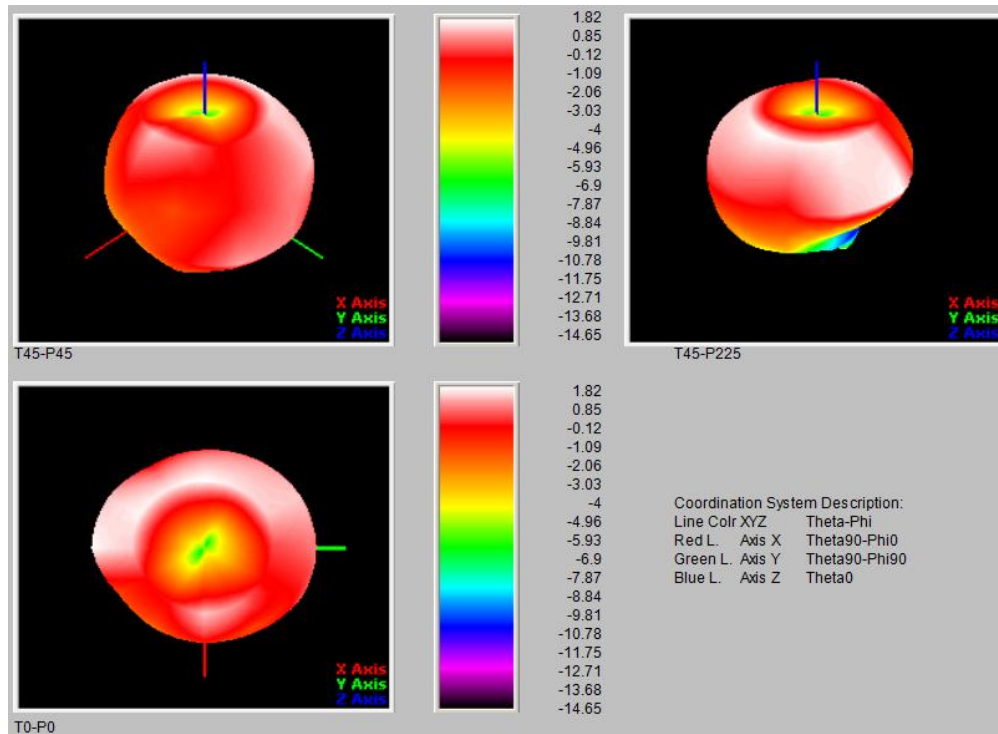
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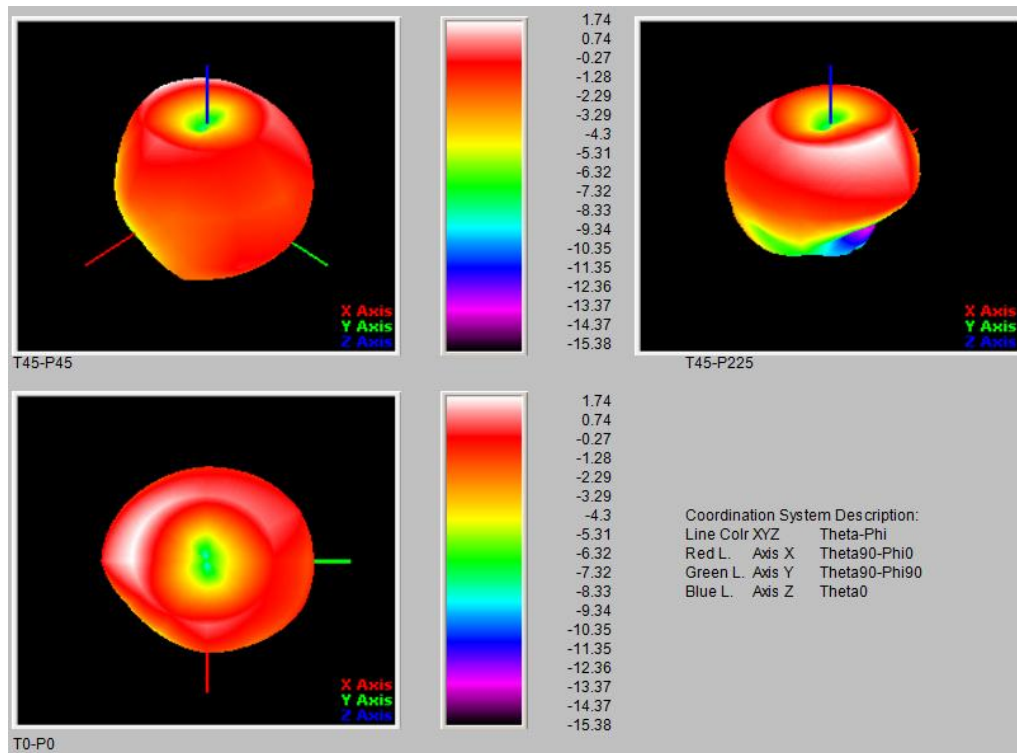
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Passive-Freq2400.00MHZ



Passive -Freq2470.00MHZ



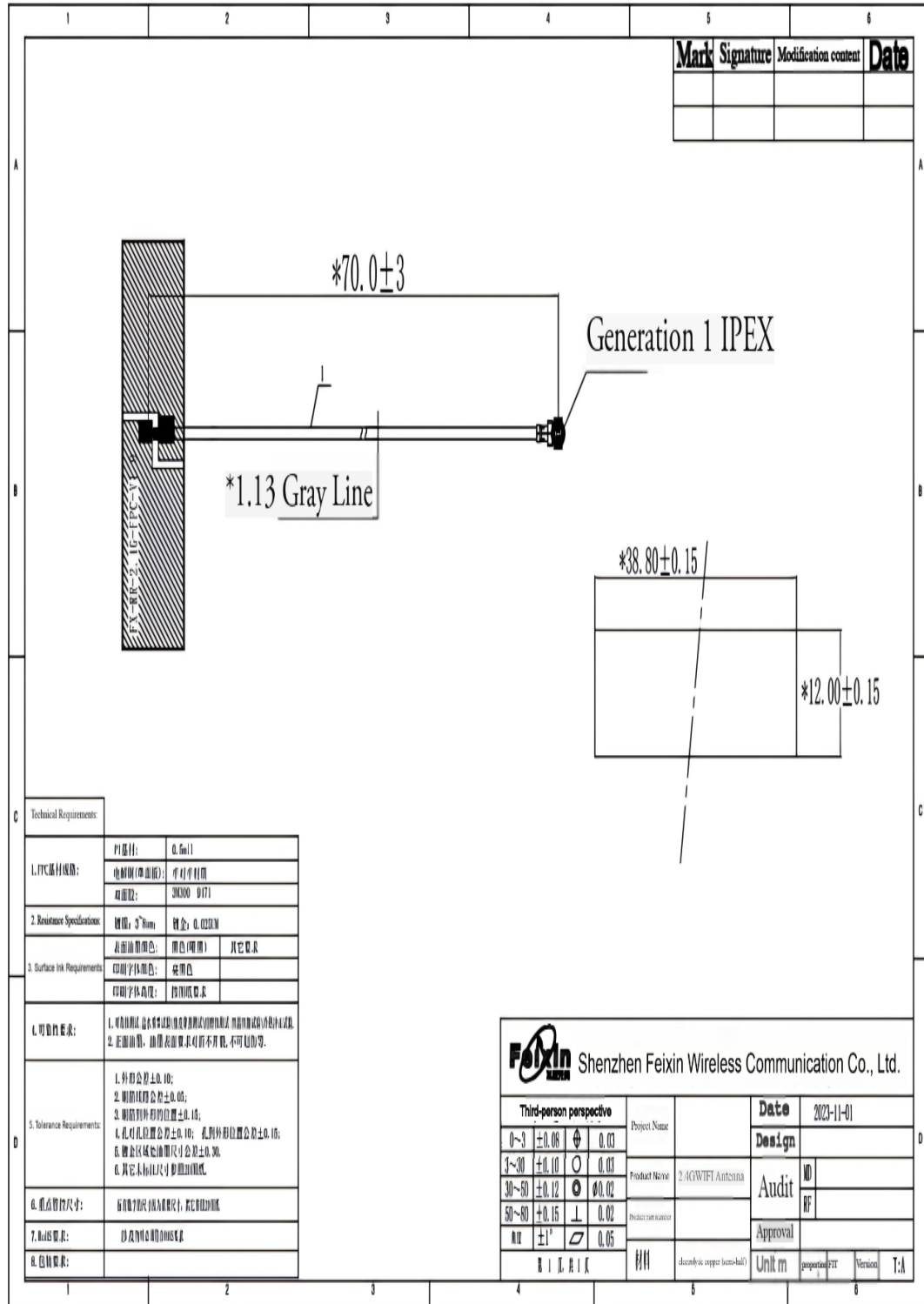
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V. Structural Drawings



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