

SPECIFICATION



Shenzhen feixin wireless communication co., ltd

2.4G SMT patch
antenna product
specification book

guest house hold		frequently stage	2400-2500MHz
product name	2.4G SMT steel antenna	edition basis	A1
Customer item		Flying core material number	FX-2.4G-SMT-GP-A02
Material description	2.4G SMT patch steel antenna		
R F design	jianshe chen	Radio frequency manager	Zhang Junfeng
structural design	Xie yufei	Structure manager	Liu dong
technical director	Chen kai	sun period	2024-07-25

Customer

Does the assembly meet your☐NG

catalogue

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I. Product pictures

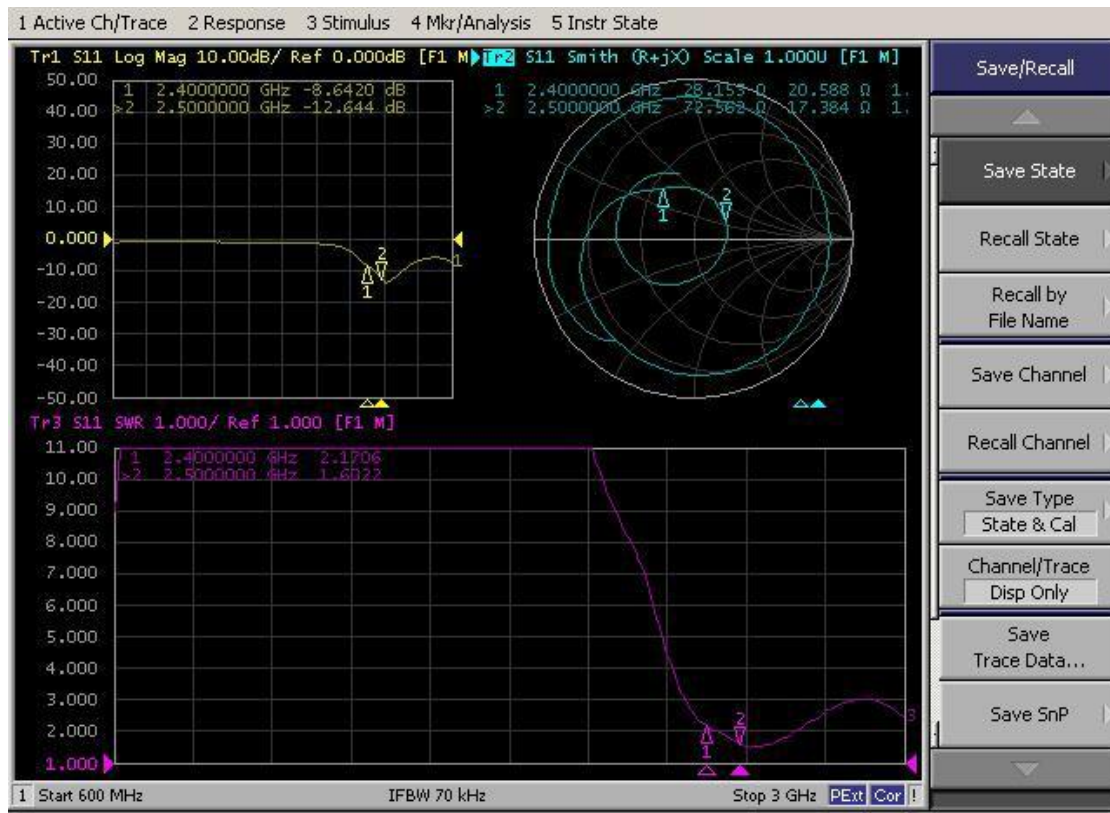


Second, the product parameters

Product test parameters			
Product Name (name)	2.4G SMT patch antenna	Product type (Model Type)	FX-2.4G-SMT-GP-A02
Electrical performance indicators (Electrical Specifications)			
Frequency range (frequency range)	2400-2500MHz	Polarization (polarization)	perpendicular/vertical
Input Impedance	50 Ω	radiation direction	omnidirection
Standing wave ratio (VSWR)	≤ 3.0	Power capacity (power)	50W
Gain	2dBi	Bandwidth	100MHz
Mechanical Specifications (mechanical specifications)			
Dimensions (dimensions)	9.20*5.20*3.3 $\pm$ 0.3mm	Shell color (Radome Color)	Silver white
Connector model (connector)	SMT patch	Cable Length	\
Shell material Radome Material	ABS		

Working temperature (Working Temperature)	-40°C-+95°C	Storage temperature (Limit Temperature)	-40°C-+95°C
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Third, S11(VSWR, Return loss, Smith) data

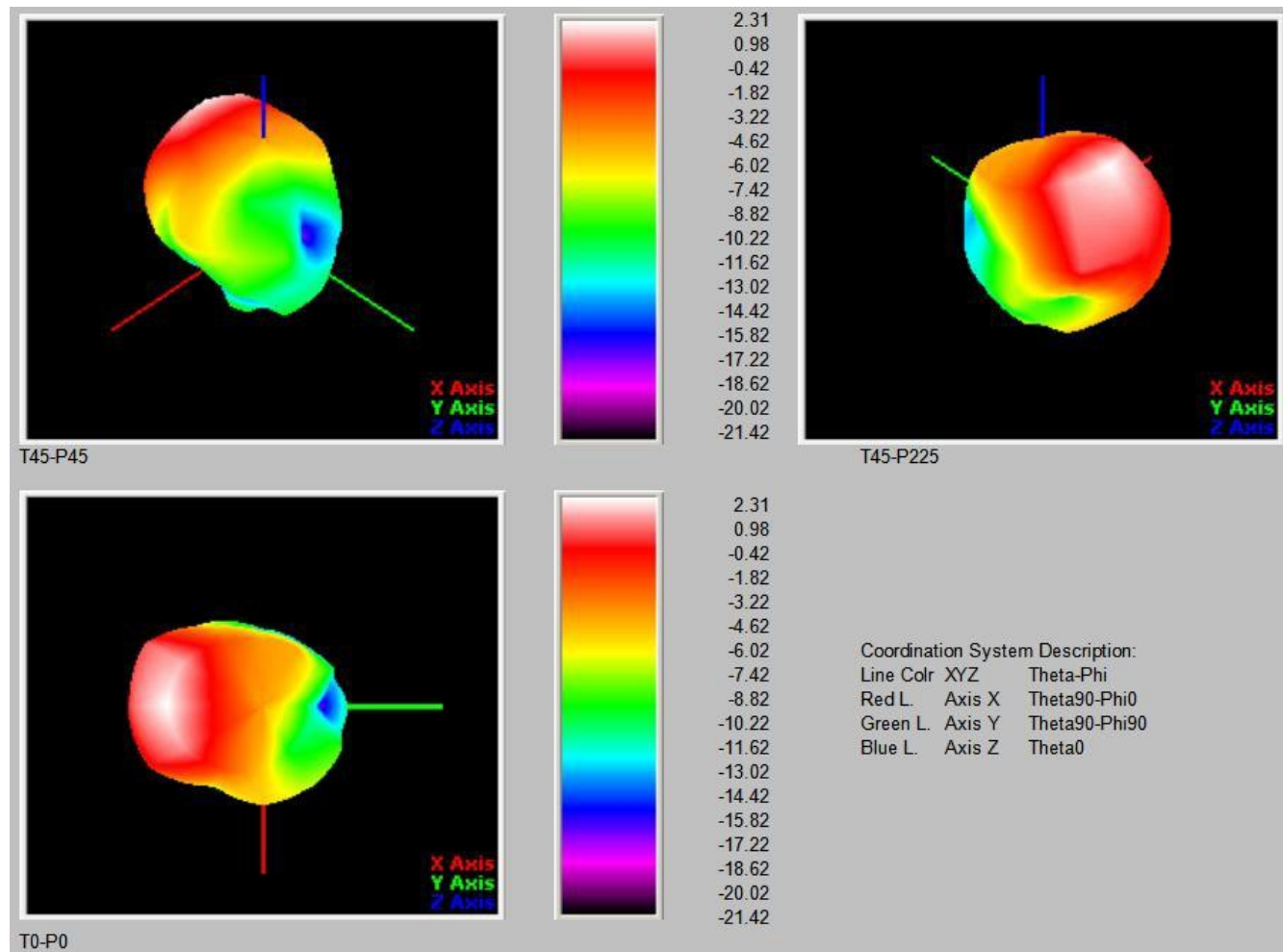


(1) Antenna test efficiency (%) and Gain (gain)

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	2.87	59.1%
<u>2</u>	2410.0	1.95	56.0%
<u>3</u>	2420.0	2.10	60.2%
<u>4</u>	2430.0	2.04	57.6%
<u>5</u>	2440.0	2.19	60.3%
<u>6</u>	2450.0	2.31	61.9%
<u>7</u>	2460.0	2.37	60.6%
<u>8</u>	2470.0	2.40	60.5%
<u>9</u>	2480.0	1.90	66.8%
<u>10</u>	2490.0	2.37	69.3%
<u>11</u>	2500.0	2.46	66.9%

(2) Antenna apple diagram

Passive -Freq2450.00MHZ



IV. Structural Drawings

[illegible]