



Shenzhen Shuangxin Communication Equipment Co., Ltd.

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SPECIFICATION OF APPROVA

CUSTOMER: _____

DESCRIPTION: 2.4G/5G PCB Antenna

PART NO: SX-PCB-2.4G-47.3*8.0-0226A

SIGNATURE

approve	Project
Shenzhen Shuangxin Communication Equipment Co., Ltd.	Technology Department
September 2022	

CUSTOMER APPROVAL

verify results	Project
☒ Pass ☐ Fail	
(YEAR)	(MONTH) (DAY)

Product Description:

The antenna has the characteristics of high gain, stable signal, good standing wave ratio performance, and high power. Can effectively receive and transmit signals.

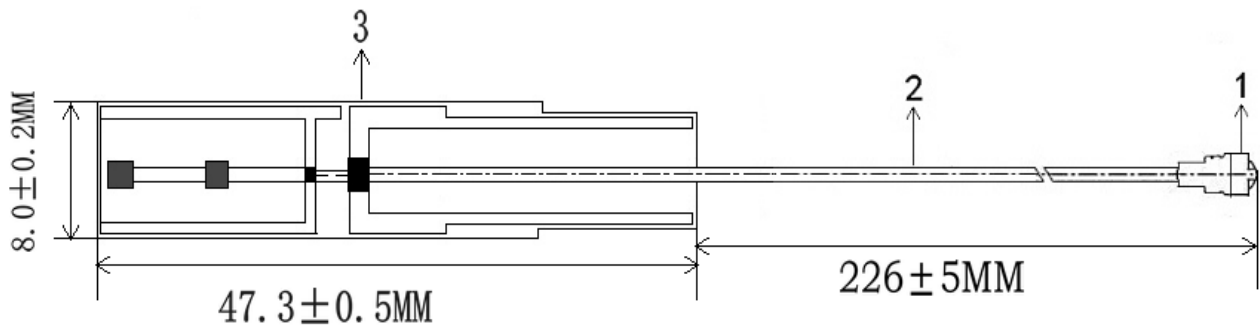
Matching cable

RF1.13 black

Product picture:



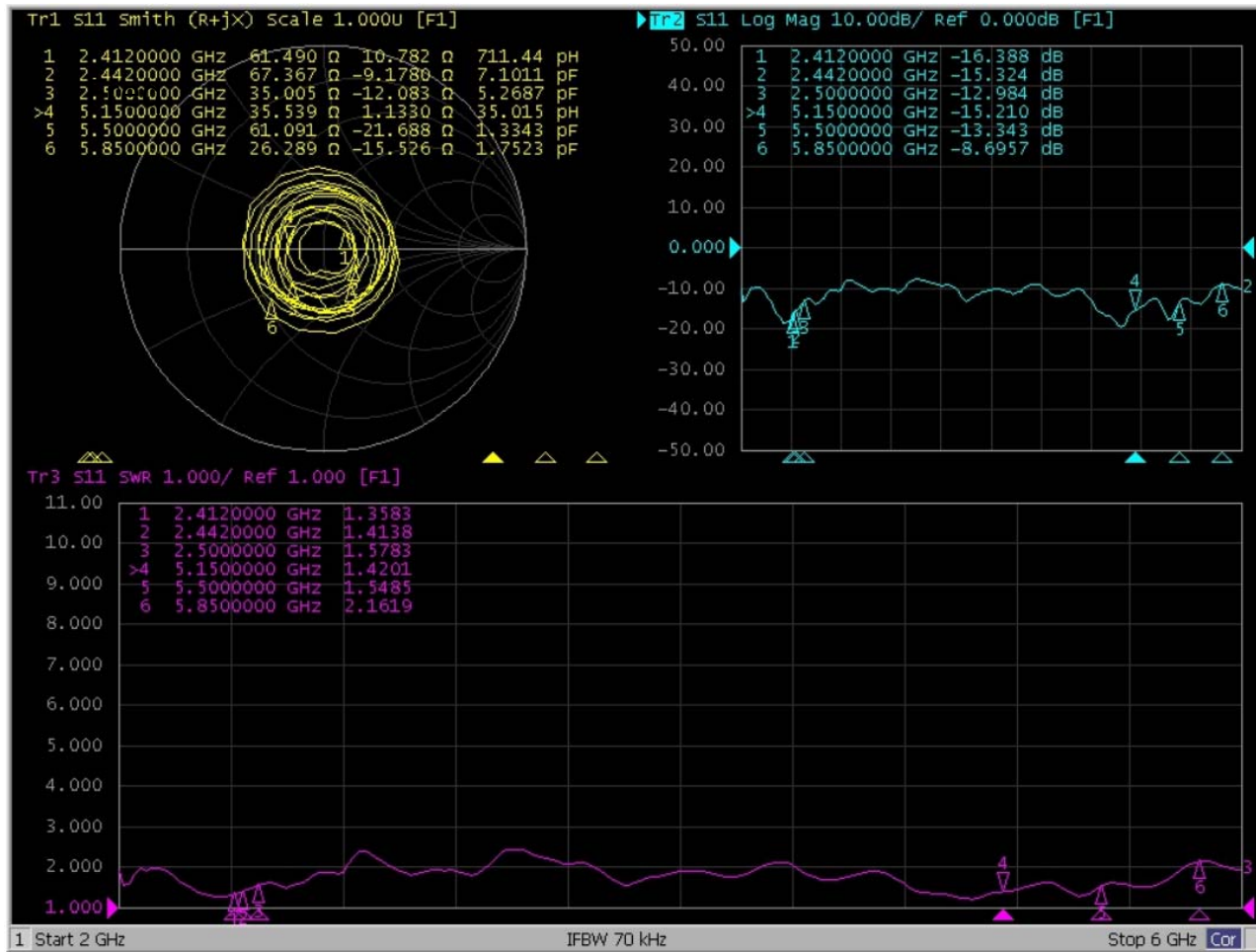
Product drawing:



Technical Parameters

型号	SX-PCB-2.4G-47.3*8.0-0226A	Model	SX-PCB-2.4G-47.3*8.0-0226A
主要技术参数		Main Technical Specifications	
RF parameters			
频率范围（MHz）	2400-2500/5000-6000	Frequency Range（MHz）	2400-2500/5000-6000
电压驻波比	≤2.5	VSWR	≤2.5
增益（dBi）	2.44/8.07	Gain（dBi）	2.44/8.07
输入阻抗（Ω）	50	Input Impedance（Ω）	50
最大功率（W）	50	Max input power（W）	50
回波损耗（dBi）	-10	Return loss	-10
环境参数 Environmental Parameters			
环境温度（℃）	-40~80	Operation temperature（℃）	-40~80
储存温度（℃）	-45~85	Store temperature（℃）	-45~85

Network analyzer testing



Frequency & voltage standing wave ratio

2400-2500MHz

频率/MHz Frequency	2412	2442	2500
电压驻波比 VSWRL	1.3583	1.4138	1.5783

5000-6000MHz

频率/MHz Frequency	5150	5500	5850
电压驻波比 VSWRL	1.4201	1.5489	2.1619

2400-2500MHz

频率/MHz Frequency	2400	2410	2412	2420	2430	2440	2442	2450	2460	2470	2480	2490	2500
最大增益/dBi Max. Gain	2.16	2.31	2.33	2.44	2.39	2.41	2.34	2.06	1.53	1.19	1.46	1.94	2.31
效率/% Efficient	29.73	29.56	29.55	29.57	29.44	29.40	29.33	29.18	28.23	27.94	27.85	27.89	28.14

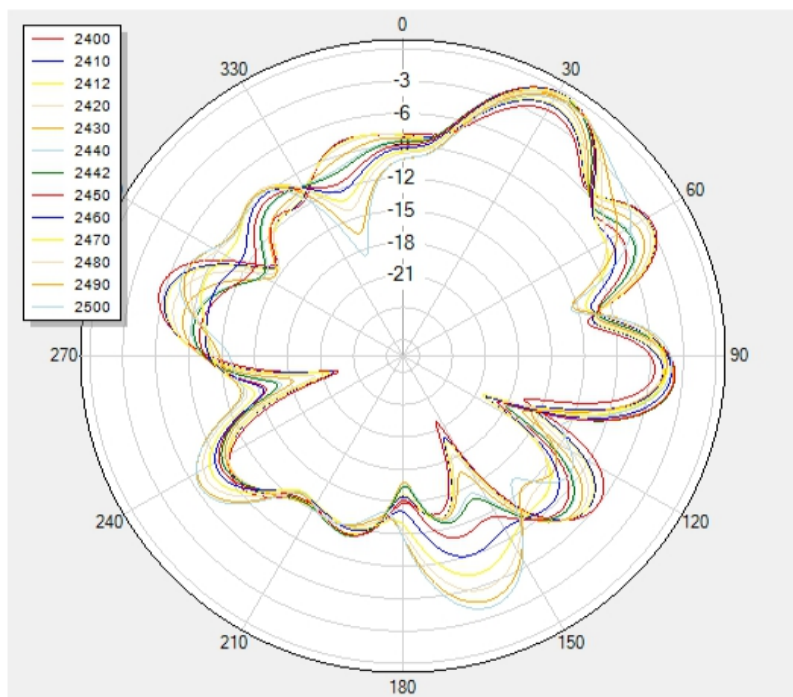
5000-6000MHz

频率/MHz Frequency	5000	5100	5150	5200	5300	5400	5500	5600	5700	5800	5850	5900	6000
最大增益/dBi Max. Gain	3.23	4.75	4.83	4.16	5.42	6.09	5.72	6.49	8.07	5.92	4.41	5.48	5.78
效率/% Efficient	20.63	24.44	25.80	26.30	28.04	24.39	20.30	22.54	26.46	16.66	14.03	16.71	18.24

2400-2500MHz

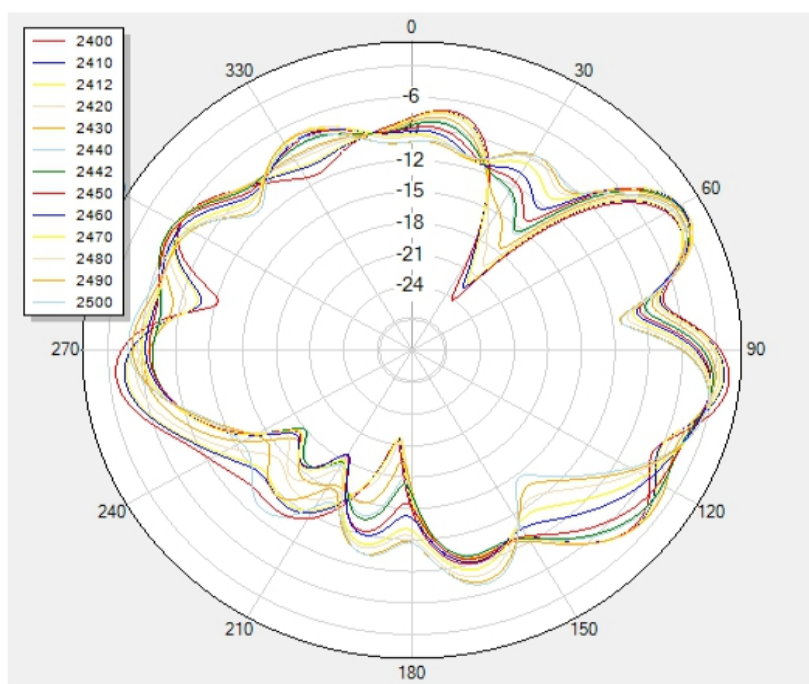
(1) X-Z :

V Phi=0



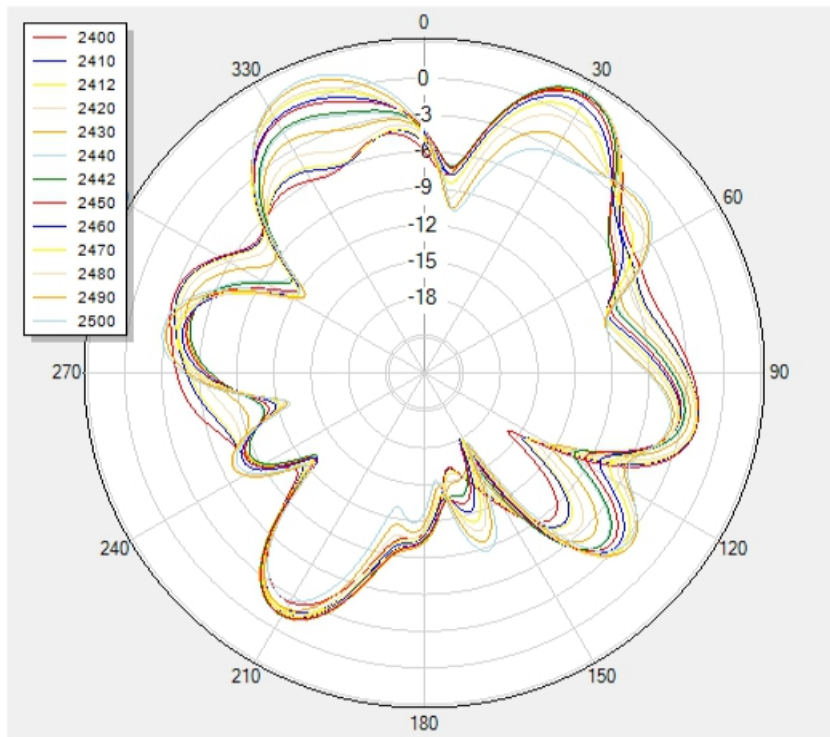
(2) Y-Z :

V Phi=90

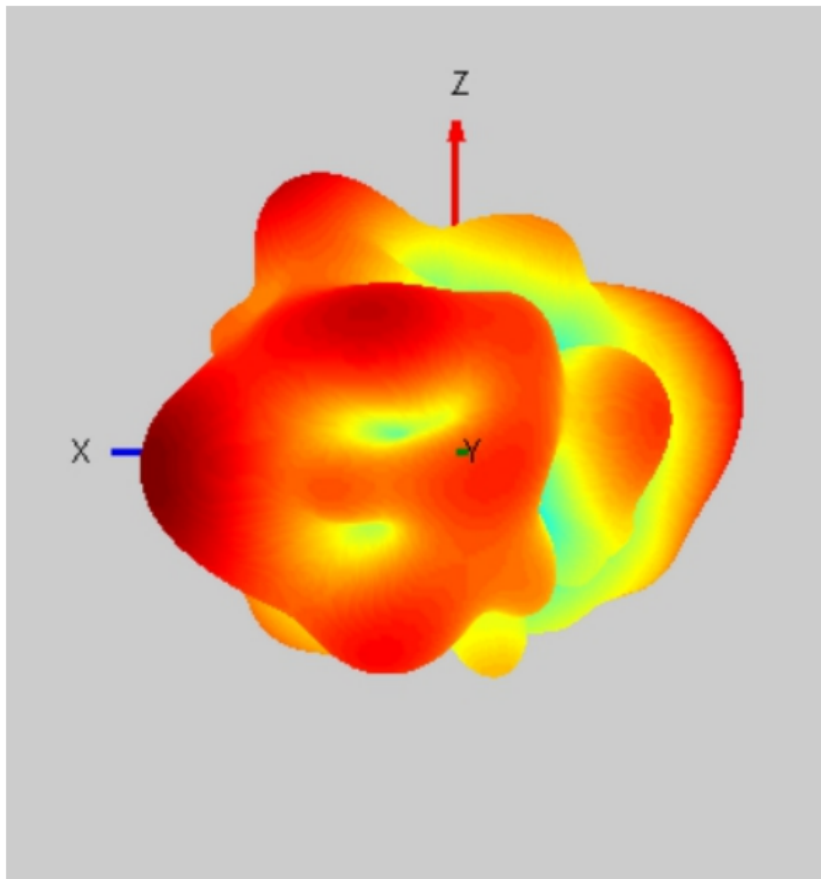


(3) X-Y :

H Theta=90



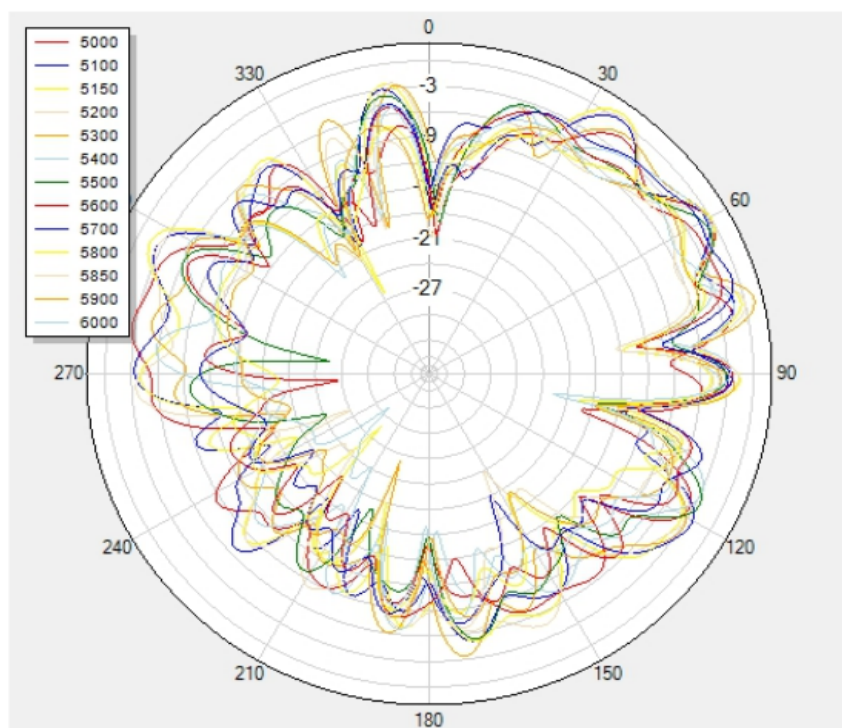
(4) 2442MHz 3D :



5000-6000MHz

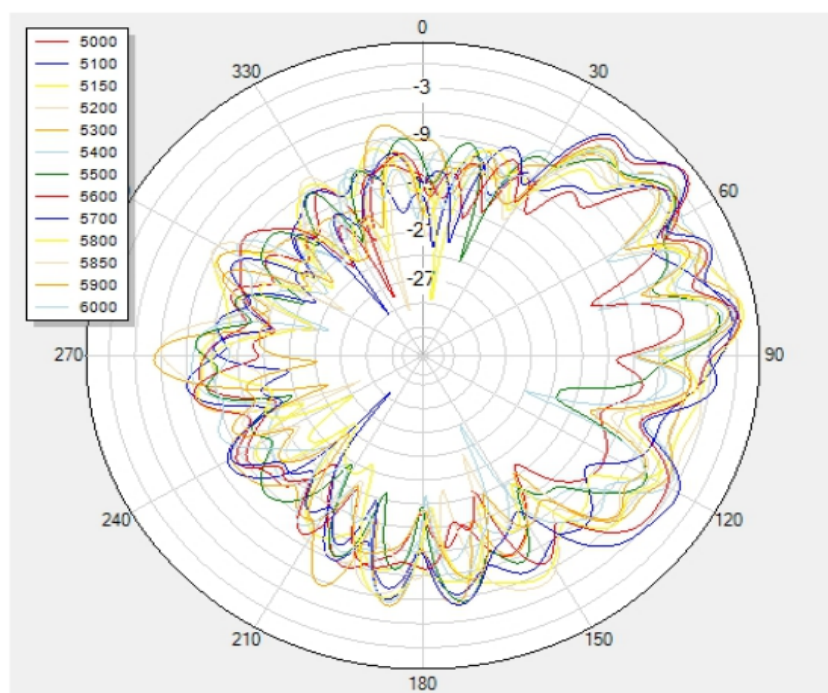
(1) X-Z :

V Phi=0



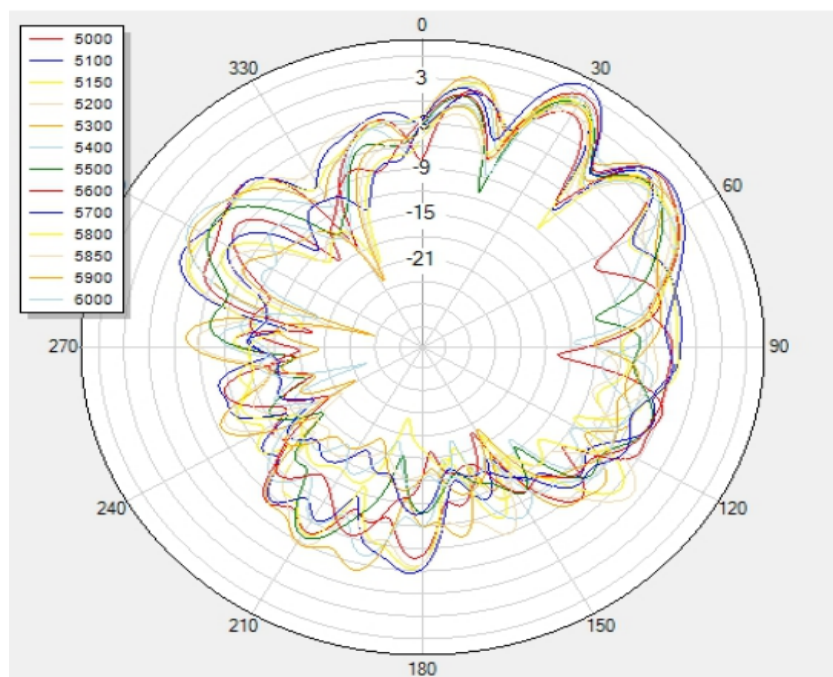
(2) Y-Z :

V Phi=90



(3) X-Y :

H Theta=90



(4) 5500MHz 3D :

