



承 认 书

SPECIFICATION FOR APPROVAL

2.4G FPC 天线 1.13 黑色线 L=80MM 带一代扣
2.4G FPC antenna 1.13 black lines L=80MM with one additional layer

XESANT11B131057

5PCS

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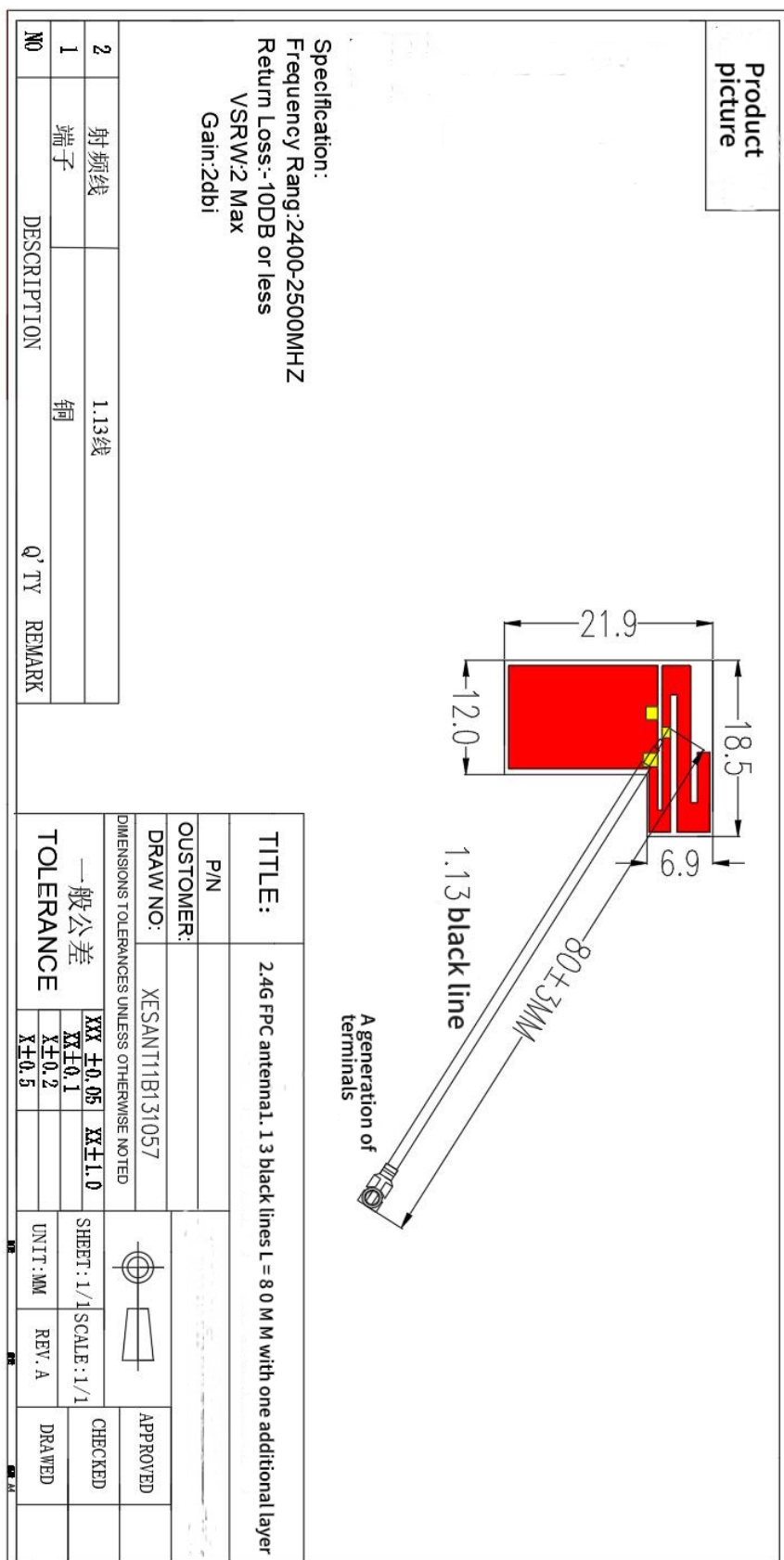
深圳市鑫尔盛科技有限公司

ShenZhen XinErSheng Technology Co.,Ltd

Product Main technical specifications

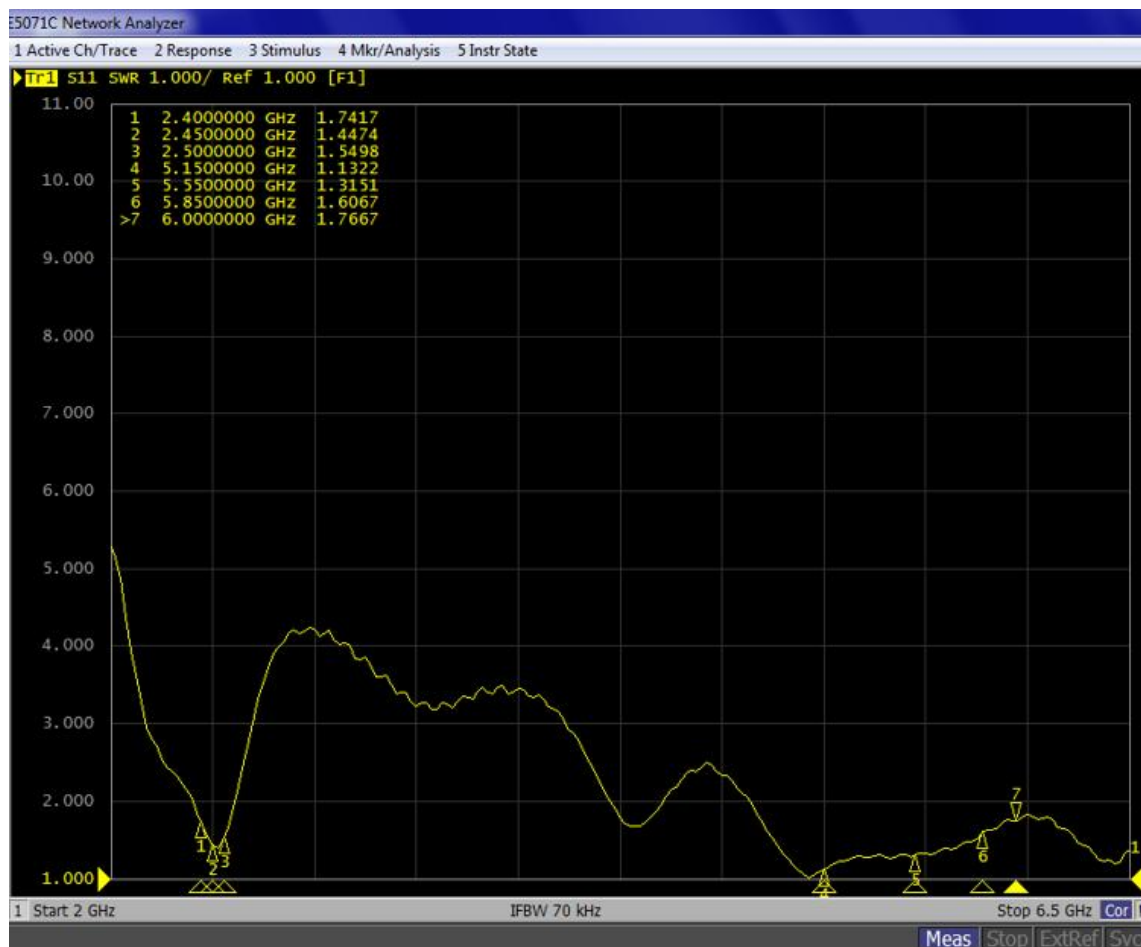
主要技术参数		Main technical specifications	
频率范围 (MHZ)	2400-2500	Frequency Range(MHZ)	2400-2500
中心频率 特性阻抗 (Ω)	50 ± 10	Impedance(Ω)	50 ± 10
峰值增益 (dBi)	2 ± 0.5	Peak Gain(dBi)	2 ± 0.5
反射损耗	≤ -10	ReTurnLoss(dB)	≤ -10
输出电压驻波比	≤ 2	VSWR	≤ 2
极化方式	垂直极化	Polarization	Linear Vertical
连接方式	IPEX	Connector Type	IPEX
物理特性		Physical Properties	
天线本体材料	FPC	Antenna Base	FPC
工作温度	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$
保存温度	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$

Finished drawing

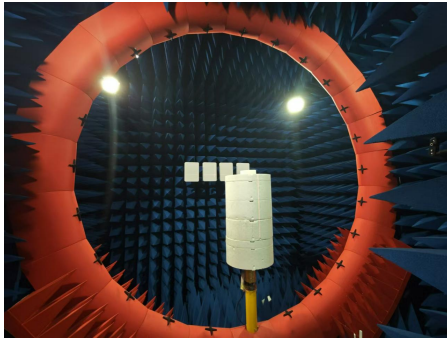


Product Main technical specifications

Network Analyzer Test Report:

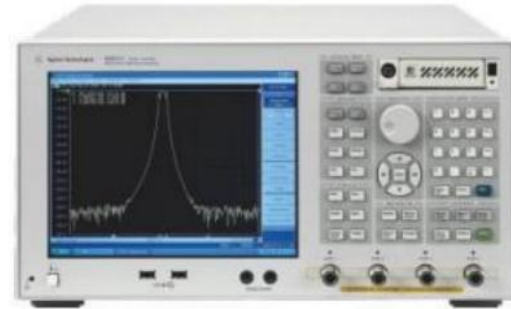


Test Equipment



OTA test system

Brand: Feitu
Frequency range: 400 MHz – 8.5 GHz
Test chamber size: 4m * 4m * 4m
Number of probes: 24 (23 dual-polarization probes, 1 call probe) Including passive testing.
Functions: Passive and active testing; G network, C network, 2G/3G/4G, WIFI, BT and other standards TRP, TIS testing, etc.



Model: 5071C
Brand: Agilent
Frequency range: 9KHz – 8.5GHz
Functions: 2G/3G/4G/BT/WIFI, etc. Antenna set

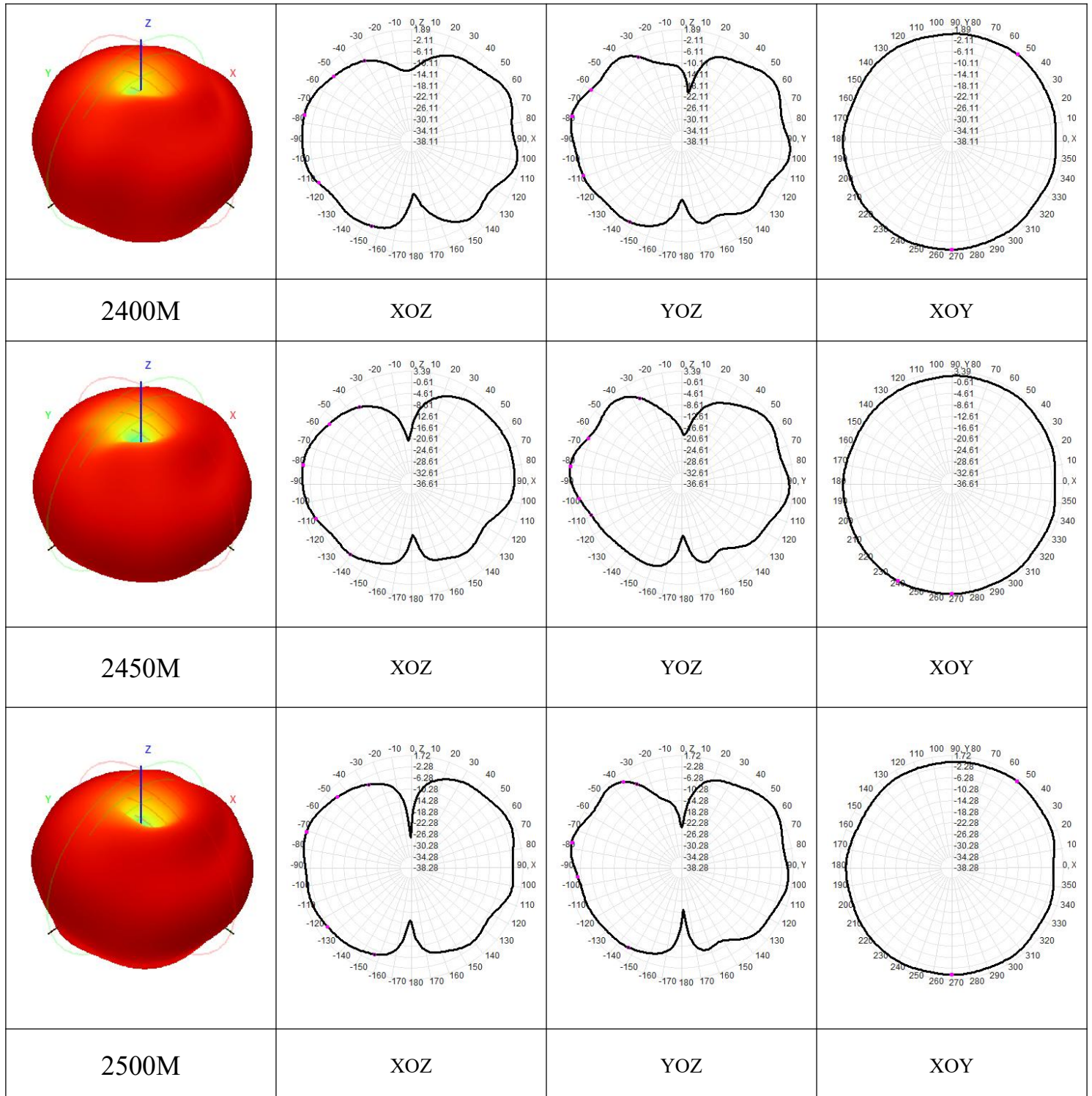


Model: 8960
Brand: Agilent
Frequency range: 292 MHz – 2700 GHz
Function: Meets 2G/3G active testing requirements



Model: CMW500
Brand: Rohde & Schwarz
Frequency range: 70KHz – 6GHz
Functions: 2G/3G/4G/BT/WIFI/NB-Lot, etc. Antenna integrated active testing

2D、3DRaditation Pattern





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Passive test data:

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-1.53	-1.28	-1.15	-1.09	-0.85	-0.74	-0.60	-0.75	-1.19	-1.45	-1.48
Gain (dBi)	1.95	2.37	2.65	2.82	2.16	2.40	2.52	2.29	2.62	2.10	1.81
Efficiency (%)	40.23	44.42	46.80	49.83	42.18	44.27	47.04	44.24	45.95	41.60	41.19
Directivity (dB)	3.48	3.65	3.80	3.91	4.01	4.14	4.12	4.03	3.81	3.55	3.28
Peak Gain Position (Theta)	77.00	77.00	78.00	81.00	81.00	81.00	81.00	80.00	79.00	76.00	76.00
Peak Gain Position (Phi)	276.00	275.00	273.00	251.00	255.00	273.00	273.00	275.00	277.00	301.00	300.00
Efficiency ThetaPol (%)	67.34	71.44	73.82	74.97	79.72	82.08	84.67	81.55	73.12	68.72	68.34
Efficiency PhiPol (%)	2.89	2.97	2.98	2.86	2.47	2.19	2.37	2.69	2.83	2.88	2.84
Upper Hem. Efficiency (%)	41.39	46.86	50.59	52.36	55.31	55.49	55.60	52.71	46.98	43.56	43.13
Lower Hem. Efficiency (%)	28.84	27.56	26.21	25.47	26.88	28.78	31.43	31.52	28.97	28.05	28.06