

深圳市中瑞成通讯设备有限公司

Zhongruicheng Communication Equipment Co.,Ltd

产品规格书

Product Specification

TZD-P5800Z3-009

5.8GHz antenna

日期: 2023-02-06

1.特点 FEATURES

- 超高的制造和测试标准 Ultra high manufacturing and testing standards
- 宽频带的频率范围和高质量的信号 Wide frequency range and high-quality signal
- 产品超紧凑，重量轻 Ultracompact and light weight

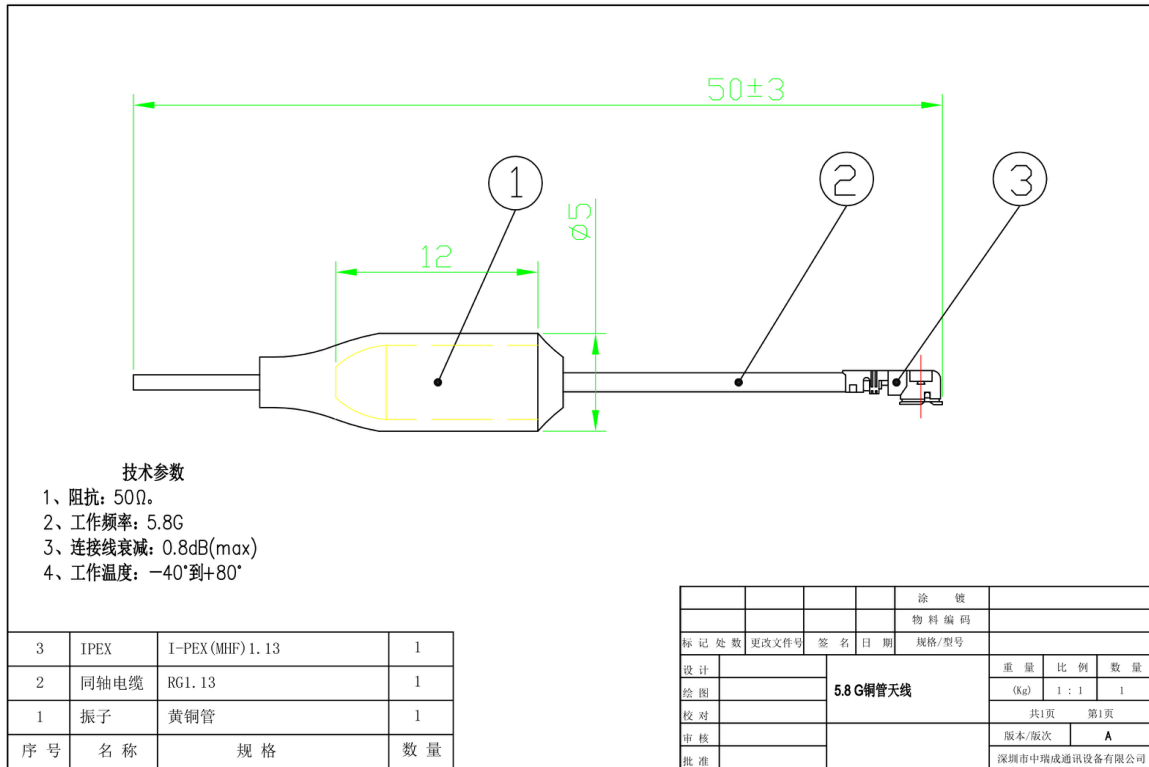
2 Electrical specifications

Frequency range (MHz) 频率范围	5600~5900
Gain (dBi) 增益	3
Polarization 极化	Linear Polarization
Impedance (Ω) 阻抗	50
Max Power (W) 最大功率	10
VSWR 驻波比	$\leq 1.5: 1$

3 Mechanical specifications

Dimensions 尺寸	$\Phi 5 \times 50$ mm
Weight 重量	3g
Connector 接口	MHFI (U.FL Compatible)
Cable Standard 线材	Mini-Coax 1.13 mm
Cable Length and color 线长及颜色	50mm, Black
Operation Temperature 工作温度	-40 °C ~ +85 °C
Storage Temperature 储存温度	-40 °C ~ +85 °C
RoHS Compliant 环保	Yes

4 Product drawings

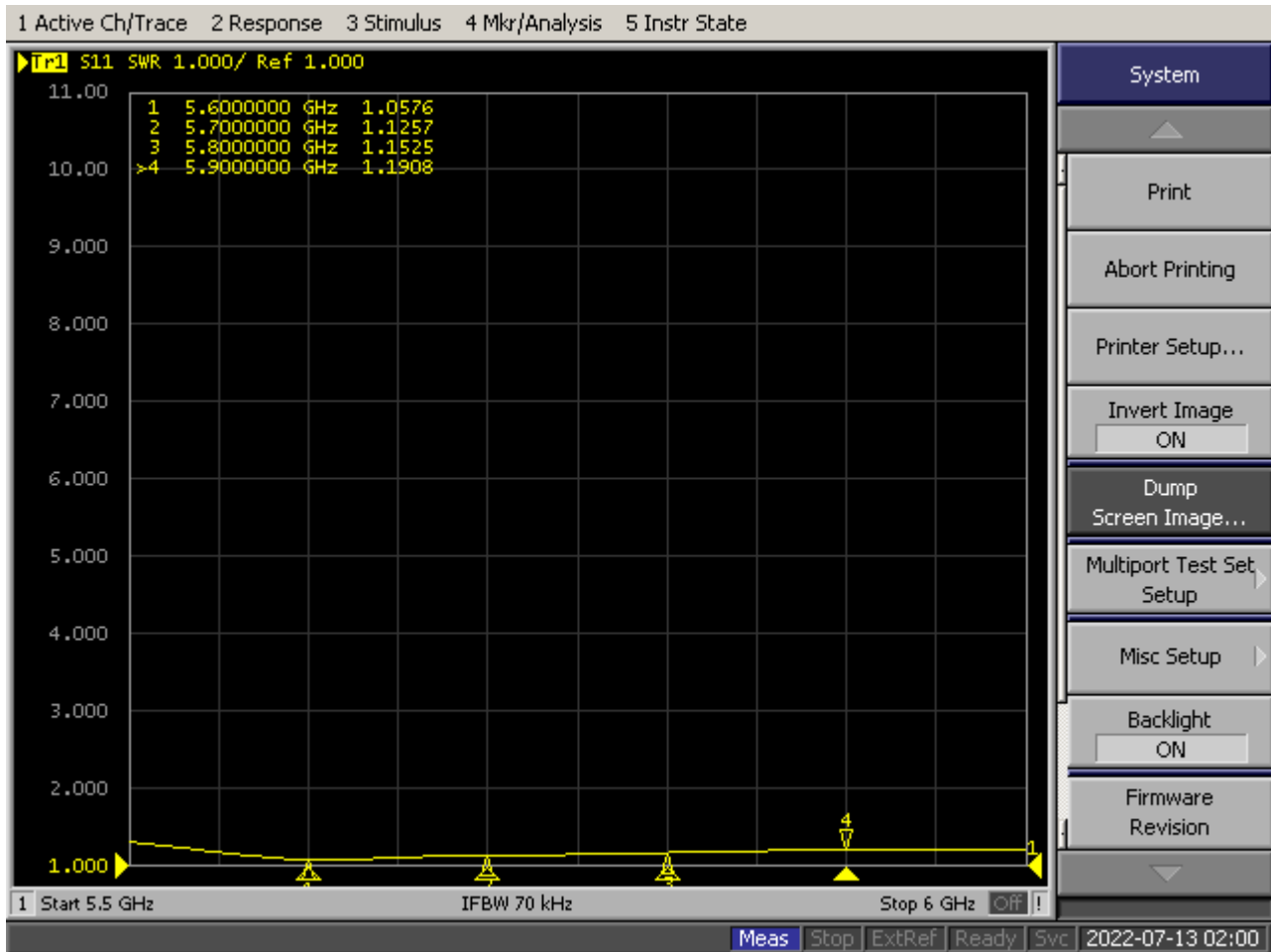


5 Product picture

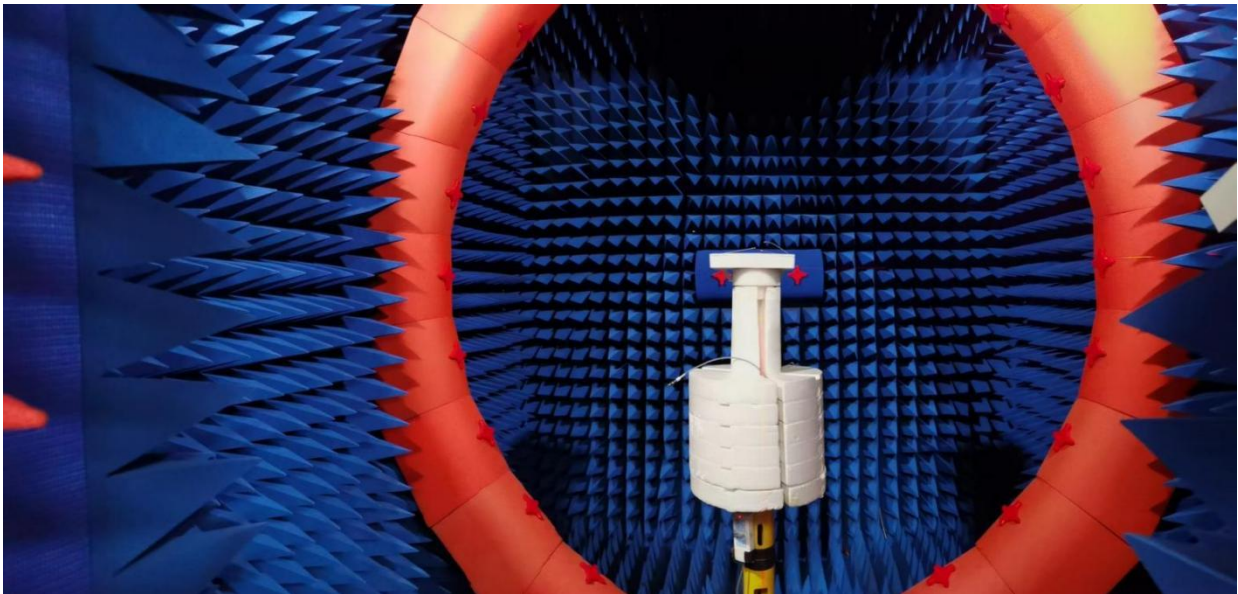


6 Antenna Characteristics

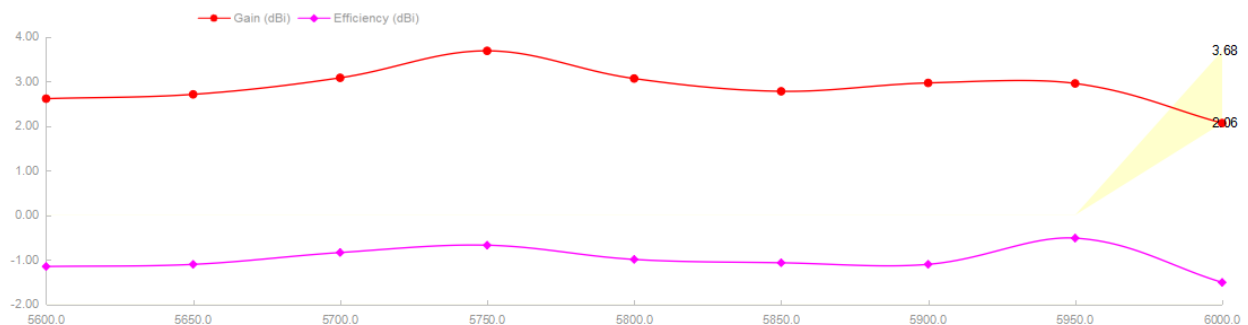
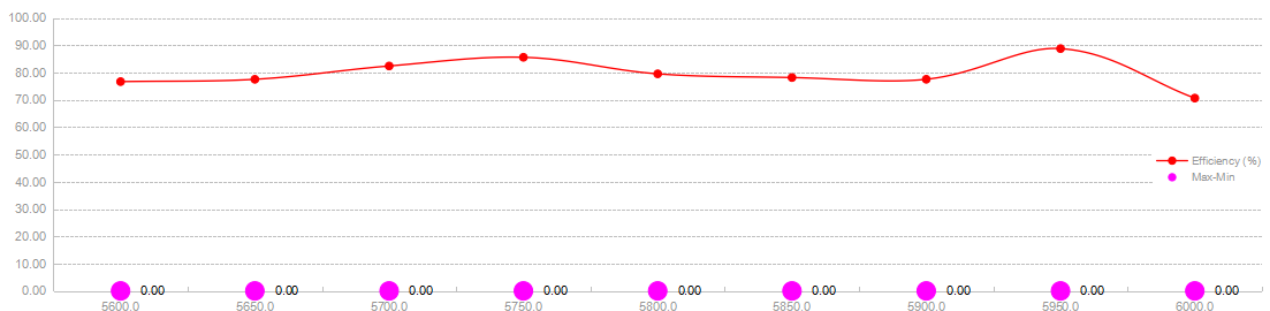
Network Analyzer VSWR



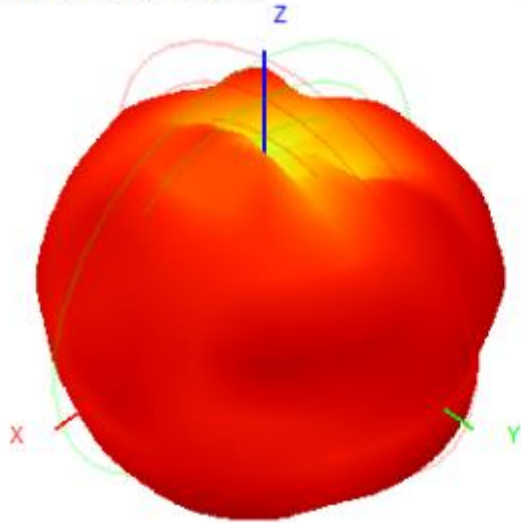
ETS 3D Radiation Scan System with Anechoic Chamber



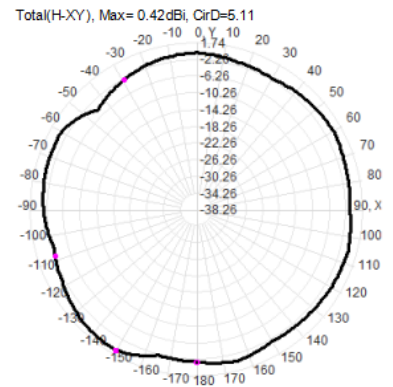
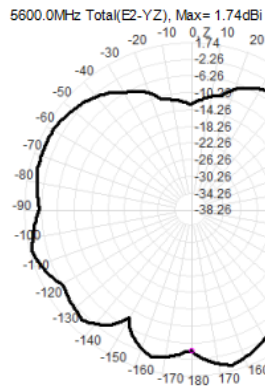
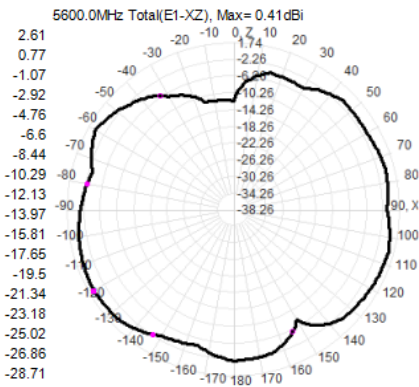
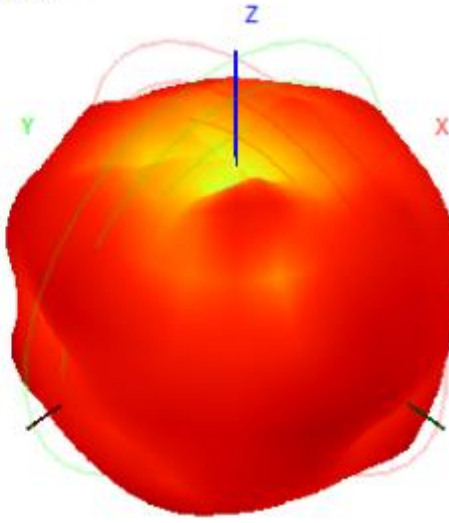
Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0	5900.0	5950.0	6000.0
Efficiency (dBi)	-1.15	-1.11	-0.84	-0.68	-0.99	-1.07	-1.10	-0.52	-1.51
Gain (dBi)	2.61	2.71	3.08	3.68	3.06	2.77	2.96	2.95	2.06
Efficiency (%)	76.68	77.53	82.41	85.59	79.53	78.17	77.54	88.77	70.64
Directivity (dB)	3.76	3.81	3.92	4.36	4.06	3.84	4.07	3.47	3.57
Peak Gain Position (Theta)	105.00	165.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Peak Gain Position (Phi)	135.00	120.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00
Efficiency ThetaPol (%)	37.97	36.78	38.03	41.77	37.38	36.29	35.45	33.63	28.50
Efficiency PhiPol (%)	38.71	40.74	44.38	43.82	42.15	41.89	42.09	55.15	42.15
Upper Hem. Efficiency (%)	32.83	32.49	36.10	36.74	36.55	36.67	37.47	44.19	32.77
Lower Hem. Efficiency (%)	43.85	45.04	46.31	48.86	42.99	41.50	40.07	44.59	37.87



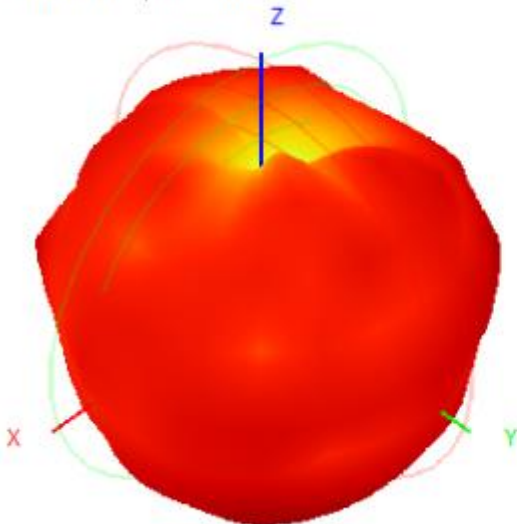
5600.0MHz H+V, Eff: 76.7%



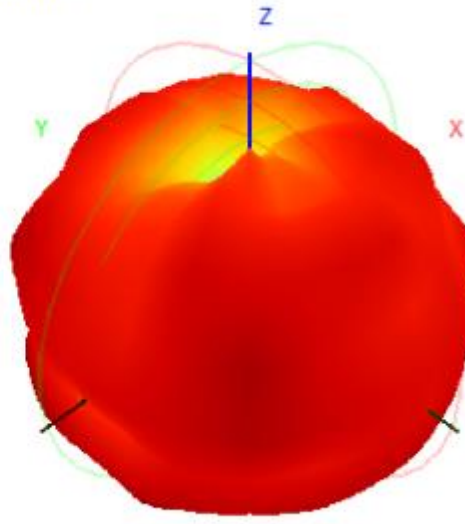
Back View

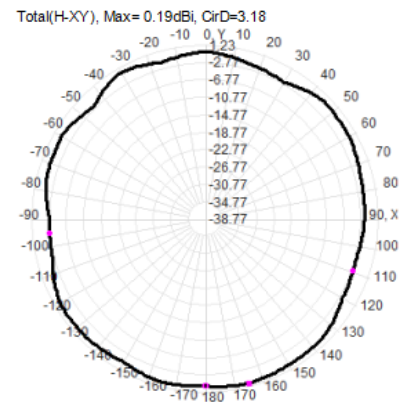
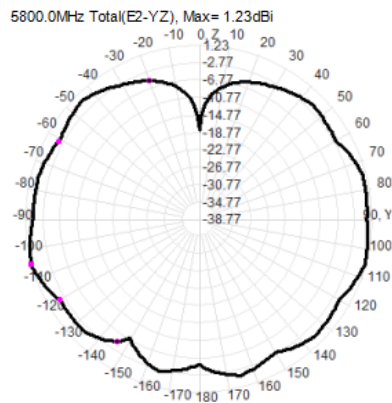
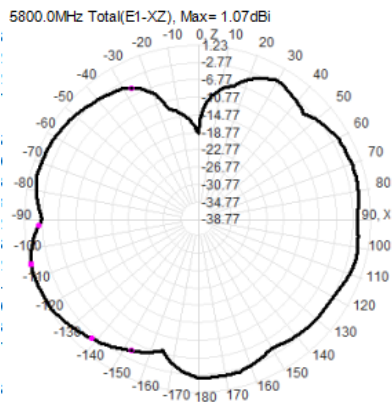


5800.0MHz H+V, Eff: 79.5%



Back View





5900.0MHz H+V, Eff: 77.5%

Back View

