



ELECTRIC
CONNECTOR
TECHNOLOGY

Product Specification

P/N:

81800V351

Rev.:

X1

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Product specification

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P/N:

81800V351

Title :

ANT_EX_0900_SMA PLUG_OD8*45mm_HYBRID

Rev.	ECN	Release and Revision Description	Prepared By/Date:	Approved By/Date:
X1	/	FIRST RELEASE	2023.01.10	2023.01.10



1. Antenna Specification/天线标准

Antenna Specification/天线技术参数

Electrical Specification/电气特性

Item/ directory	Specification/规格	Comment/备注
Freq.Range/ band range	860 MHz ~940MHz	
Impedance/阻抗	50 (Q)	
VSWR/ VSWR	<3.0	
Directional/ radiation direction	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/ peak gain	-2.62dBi	
Test condition/测试条件	Passive test (passive test)	
Total Efficiency/无源效率	≥20%	

Mechanical Specification/机械指标

Antenna type/ antenna type	Glue stick antenna	
Connector Type/ connector type	SMA PLUG (male pin)	
RF Cable Type/ radio frequency cable model		
Connector Torque Test/连接器扭力	/	
Connector Pull Test/连接器拉力	/	
Salt Spray/ salt spray test	48(H)	

Environmental Specification /环境指标

Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/ storage temperature	-40°C ~ +85°C	

Manufacturer/制造商

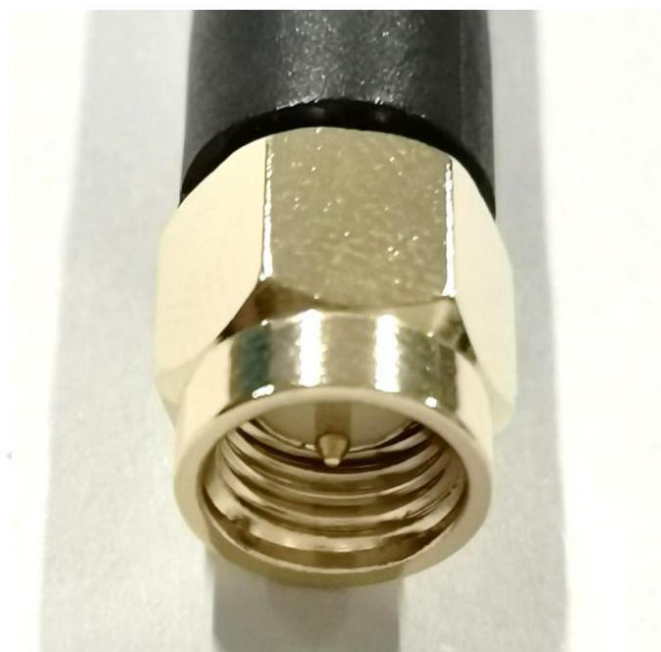
Electric connection technology co., ltd

Address/地址

Jinxu Industrial Park, Xitian Community, Gongming Street, Guangming District, Shenzhen City, Guangdong Province, China

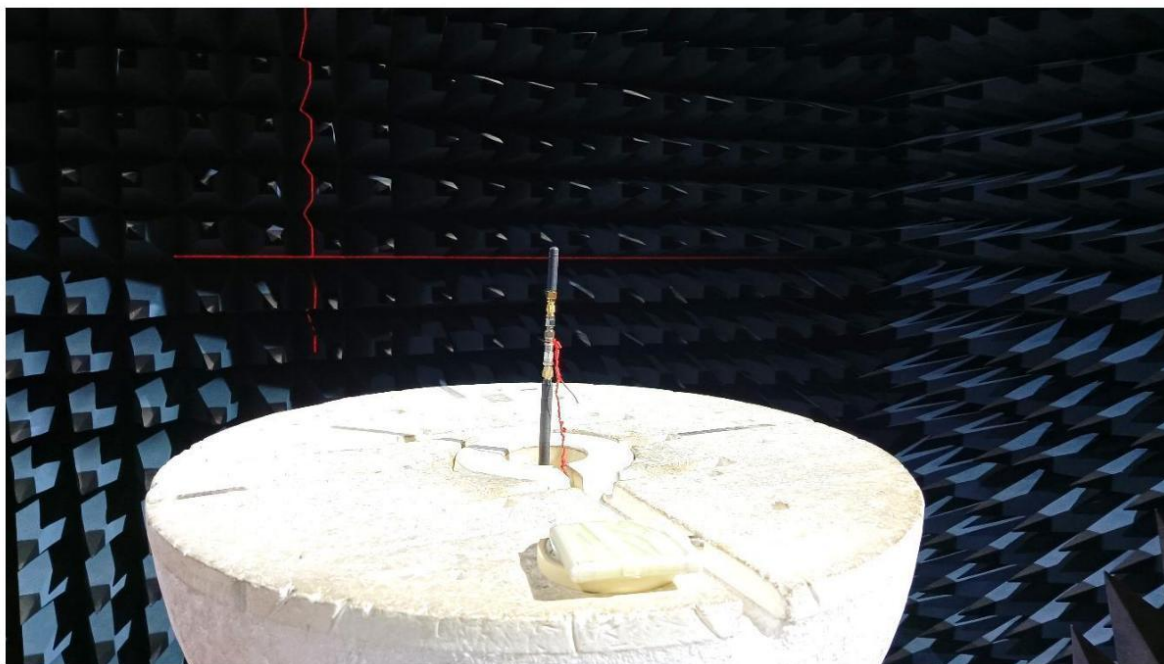
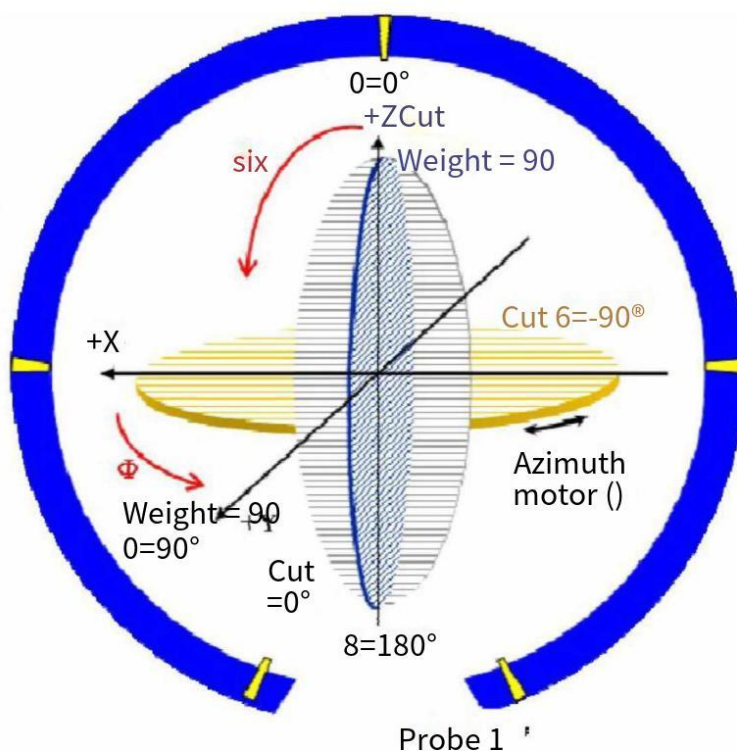


2. Antenna Picture/天线图片



4.2 The gain and total efficiency test/增益和效率测试

4.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The production test position/天线测试放置位置

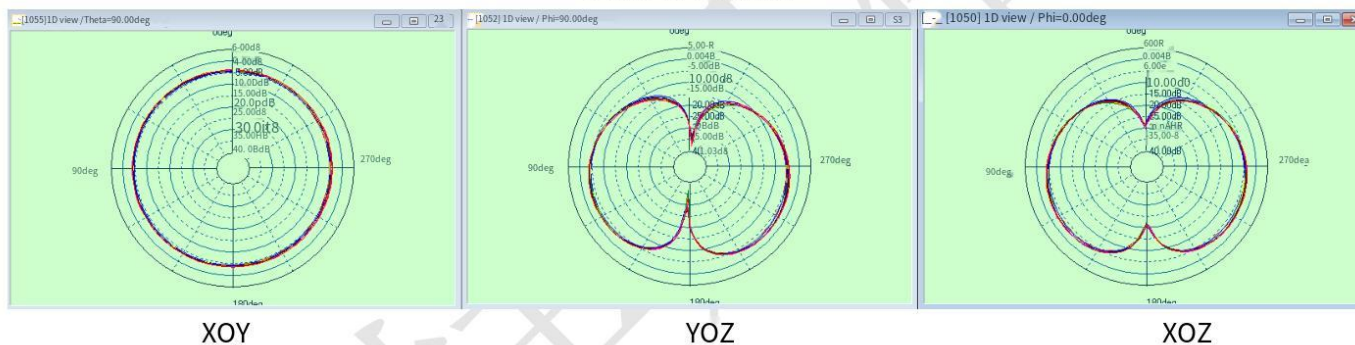


4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果
860MHz-940MHz

Frequency	Efficiency(%)	Gain (dBi)
860MHz	24%	-3.82
870MHz	24%	-3.99
880MHz	25%	-3.78
890MHz	28%	-2.90
900MHz	29%	-2.74
910MHz	28%	-3.07
920MHz	29%	-2.85
930MHz	thirty percent	-2.62
940MHz	thirty percent	-2.82
AVG	27%	-3.18

4.2.3 The antenna radiation pattern(2D)/天线辐射方向图(2D)

860MHz -940MHz



4.2.4 The antenna radiation pattern(3D)/天线辐射方向图(3D)

Frequency/频点900MHz

