



ELECTRIC
CONNECTOR
TECHNOLOGY

Product Specification

P/N:

81800V351

Rev.:

X1

Page:

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Product specification

Product Specification

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

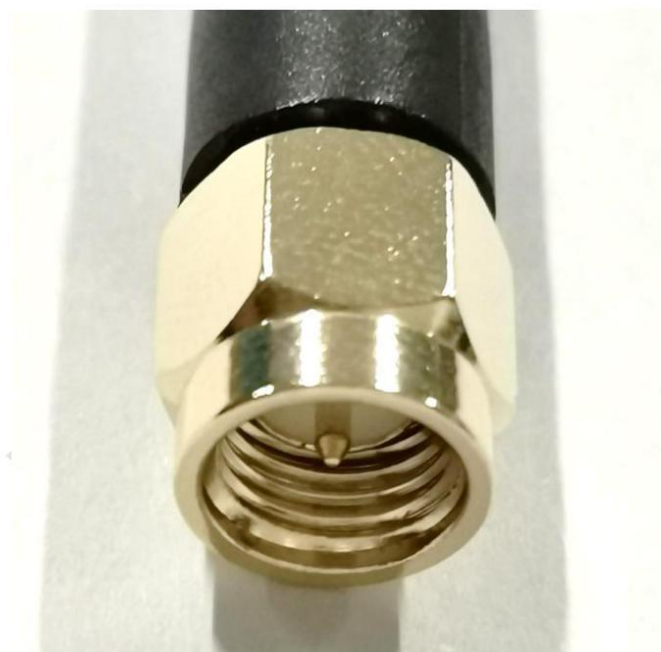
Electric connection technology co., ltd

Address/地址

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



2. Antenna Picture/天线图片



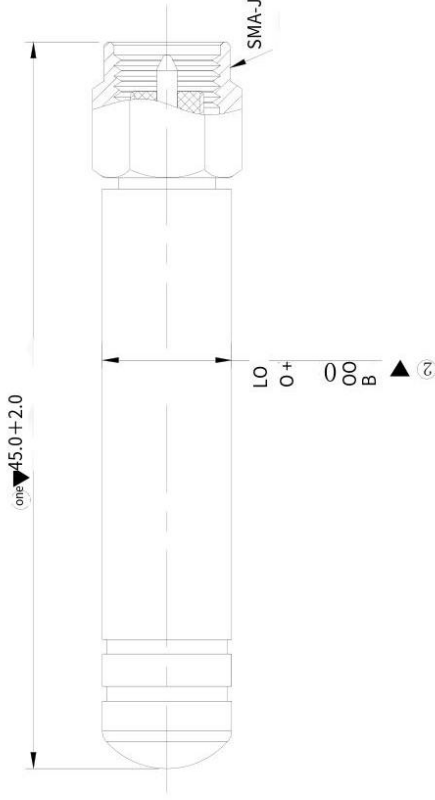
A

BC

D

E

REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECN232327	First edition issue	01/09' 23	Liu Xiaofeng	Ding dibin	Niu Baoxing



- NOTES:
1. Marked with ▼ "is the key testing size for QC.
 2. Frequency range: 860-940 MHz.
 3. Test instrument: matrix test.
 4. Hazardous substances shall conform to the control standard of ECT "QE-Q-19-001 Environmental Hazardous Substances Management Standard".
- NOTES:
1. THE DIMENSIONS MARKED WITH ▼ ARE THE KEY INSPECTION DIMENSIONS OF QC.
 2. FREQUENCY RANGE: 860-940 MHz.
 3. TEST INSTRUMENT: MATRIX TEST.
 4. HSF SHALL CONFORM TO THE STANDARD QE-Q-19-001 ENVIRONMENTAL HAZARDOUS SUBSTANCES MANAGEMENT.

	GENERAL TOLERANCE		SCALE:	1:1	DRAWN:	DATE:	DWG.NO:	TITLE:		REV.
	X. ± 0.20	XXX. ° ± 2°	UNIT:	mm	CHECK:	DATE:	600-V351-01	ANT_EX_0900_SMA PLUG_OD8*45mm_HYBRID		X1
	.X ± 0.15	XX. ° ± 1°	SIZE:	A4	APPROVE:	DATE:	PARTS NO. (INTENDED USE):	Customer Figure		SHEET:
	.XX ± 0.10						81800V351			1/1

AB

C

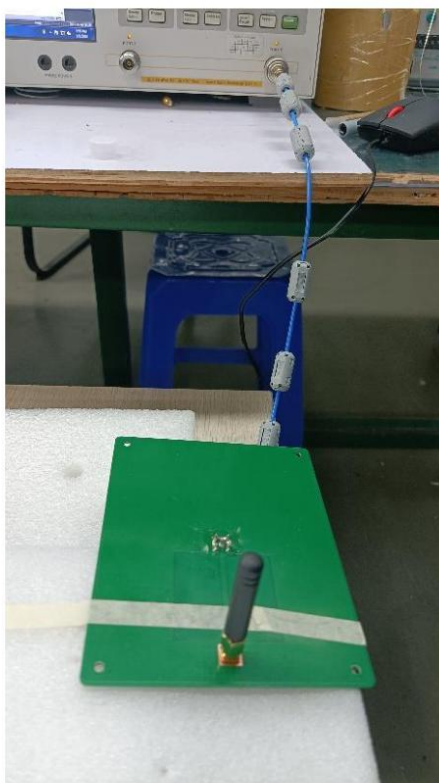
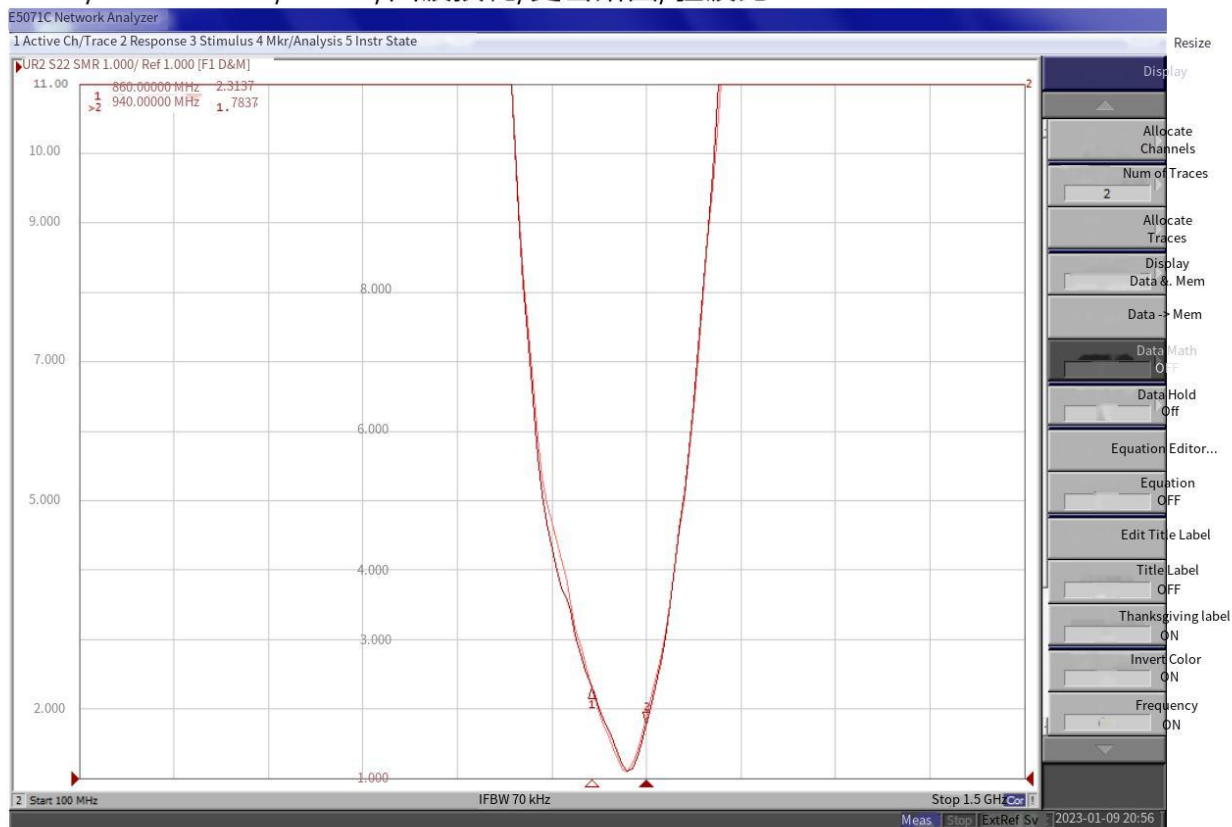
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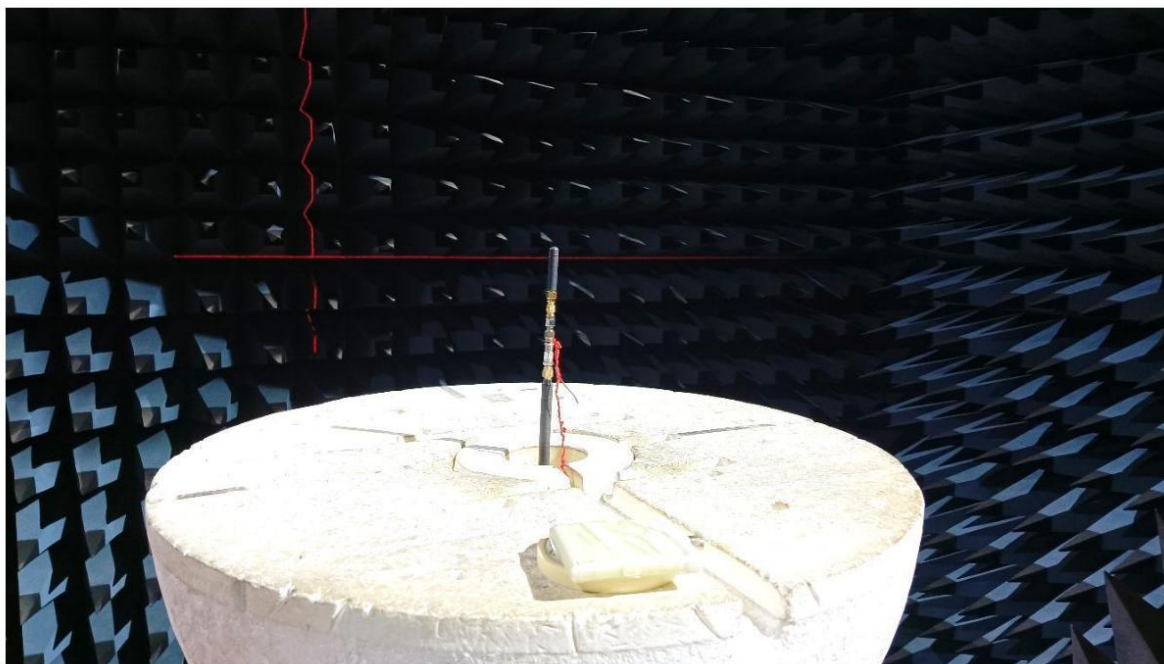
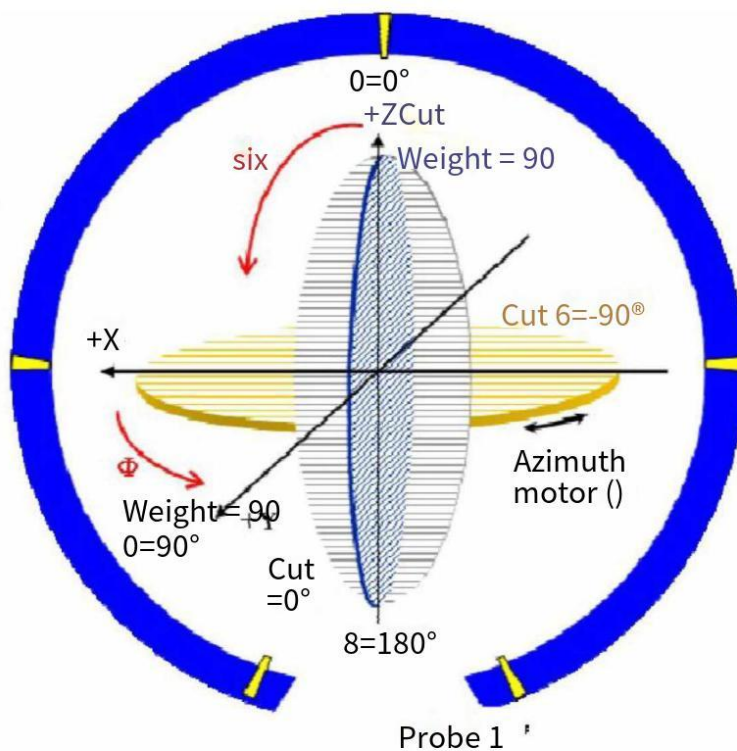
4. Antenna test result/测试结果

4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比



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

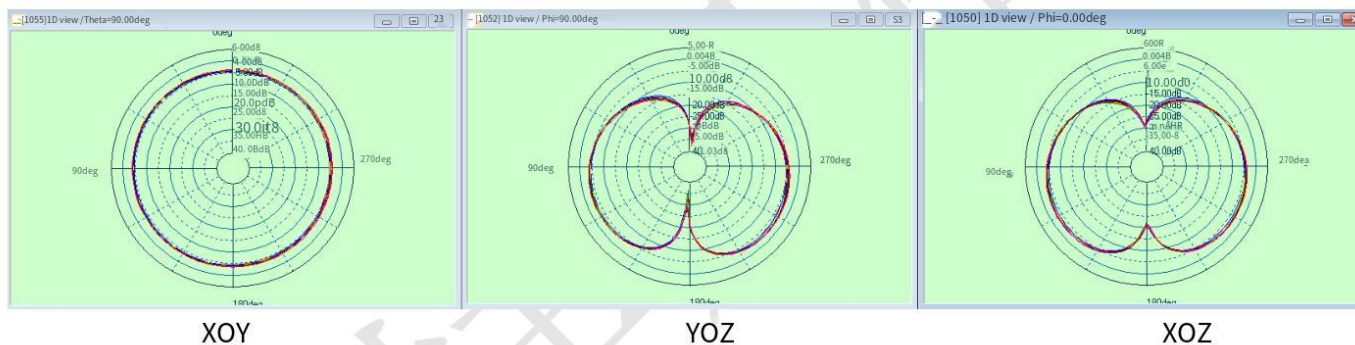


4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果
860MHz-940MHz

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

