

产品规格书

Product Specification

Manufacturer: Shenzhen Hongshuo Technology Co., Ltd

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项目名称 Project Name: 433 内置 FPC 天线

料号 Customer P/N:

规格描述 Product Spec:

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制 作 drawing	审 核 check	批 准 approved

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电性能指标 Electrical Performance Index

电 器 性 能 指 标		Electrical Specifications	
频率范围		433MHZ	
电压驻波比	≤ 2.0	VSWR	≤ 2.0
增益	$\leq -2.12\text{ DBI}$	GAIN	$\leq -2.12\text{DBI}$
辐射方式	全向	Radiation	OMNI
极化方式	线极化	Polarizatin	LINEAR
输入阻抗	$50\ \Omega$	Input Impedance	$50\ \Omega$
机 械 性 能 指 标		Mechanical Specifications	
接口形式	IPEX-2 代	Input connector	IPEX-2 代
天线材质	铜	Antenna materia	Copper
工作温度	$-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$	Working Temperature	$-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$
工作湿度	40~85%	Working Humidity	40~85%

Photos:

L X H:2cm X 0.4cm



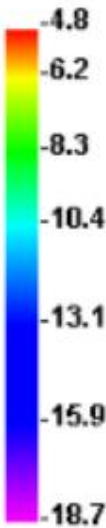
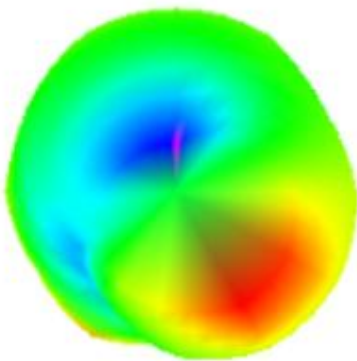
1. 天线驻波图天线效率



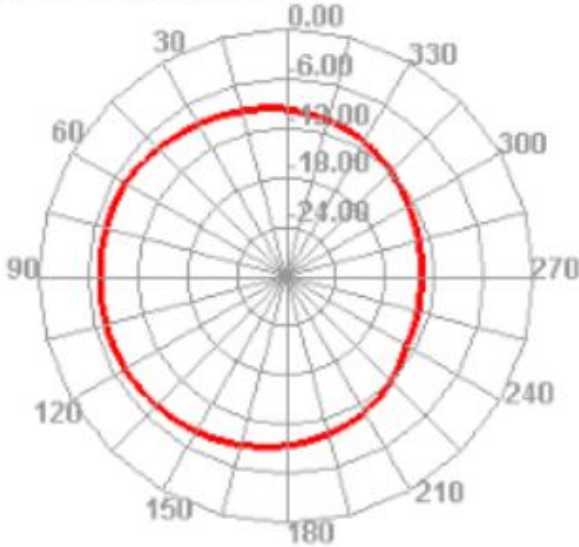
Passive Test For 433								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)
425	22.31	-7.62	-4.24	-4.39	6.575	10.735	-3.24	-22.01
426	23.44	-7.34	-4.14	-4.29	7.071	11.367	-3.14	-21.25
427	24.3	-7.14	-4.15	-4.3	7.473	11.829	-3.15	-20.83
428	24.84	-7.03	-4.25	-4.4	7.783	12.053	-3.25	-20.11
429	24.91	-7.01	-4.5	-4.65	7.934	11.98	-3.5	-19.56
430	24.43	-7.11	-3.83	-4.98	7.882	11.552	-3.83	-19.01
431	23.74	-7.27	-2.12	-4.27	7.756	10.985	-4.12	-18.99
432	22.62	-7.54	-2.38	-4.53	7.455	10.165	-4.38	-18.9
433	21.23	-7.9	-2.78	-4.93	6.995	9.233	-4.78	-18.71
434	19.67	-8.34	-3.14	-5.29	6.414	8.252	-5.14	-18.75
435	18.02	-8.85	-3.66	-5.81	5.758	7.263	-5.66	-19.16

3. 天线方向图

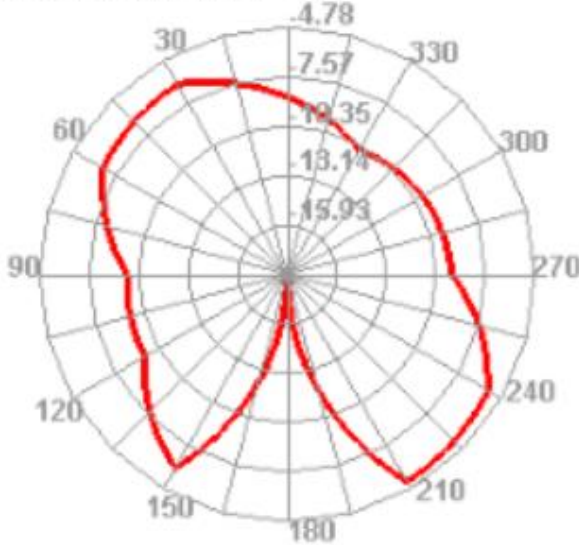
433.000MHz



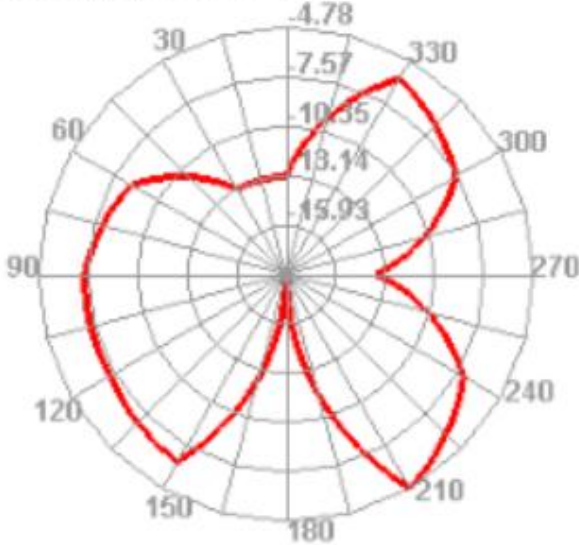
433.000MHz H



433.000MHz E1



433.000MHz E2



测试设备及原理 Testing Equipment and Principle

1. 测试设备:

网络分析仪 Network Analyzers :

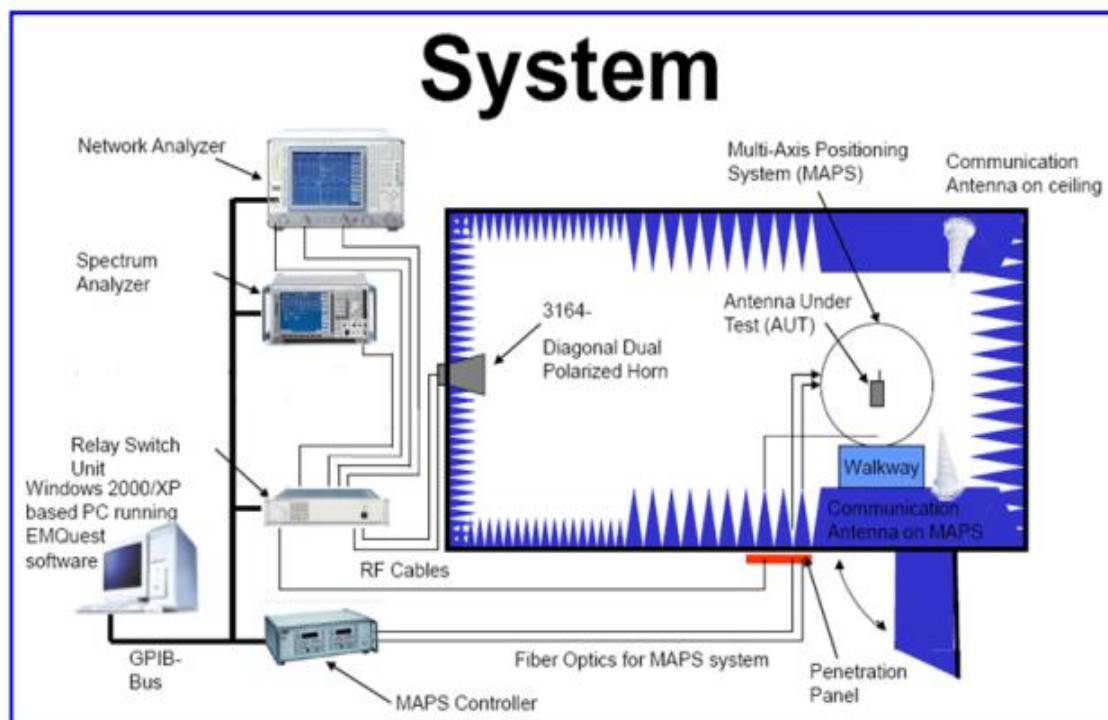
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C CMW500 8820C

3D 暗室测试系统 3D Chamber Test System:

2. 测试原理:



工程图纸 Product Drawing
