



福州中天迅通信技术有限公司

Fuzhou ZHONGTIANXUN Communication Technology Co., Ltd

项目名称(Project Name): AXIUM DX8000 AM WIFI

天线类型(Antenna type): AXIUM DX8000 A-WIFI-ANT

物料编码(Item number): E.03.00509

MPN 码 (MPN) : B0680285D

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设计公司: 福州中天迅通信技术有限公司

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A1	2020-10-26	规格书制定。 Specification made.



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1 名词解释 (Explanation of Nouns)

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 测试设备 (Test equipment)

Vector network analyzer Agilent 8753E

Frequency analyzer

General-purpose tester Agilent 8960 E5515C

High performance no-reflection shielding darkroom ETS 8m*4m*4m

3 适用频段 (Applied frequency band)

频段 Frequency Band	频率 Frequency
WIFI	2400-2500MHz, 5150-5850MHz。





4. 测试指标和数据图表 (Test project)

4.1 驻波图 (VSWR)





4.2 无缘效率 (Antenna passive test)

chNo	Freq (MHz)	Gain (dBi)	Efficiency_Pcent (%)
1	2400	-0.706997058	36.80274378
2	2410	-0.399413985	38.74294379
3	2420	-0.449735907	39.37727994
4	2430	-0.440114887	38.86449779
5	2440	-0.566917224	37.56305784
6	2450	-0.55194568	39.10731259
7	2460	-0.33232023	38.9663356
8	2470	-0.329961717	38.3341061
9	2480	-0.579489787	36.28765067
10	2490	-0.614875842	36.33084767
11	2500	-0.54497391	36.99270852
12	5150	-1.978613702	23.61221349
13	5200	-1.115840222	25.88407069





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14	5250	-0.160293415	25.39428847
15	5300	-0.017440398	23.3471147
16	5350	0.809508041	27.78230923
17	5400	0.716516628	31.19306606
18	5450	-0.104389173	26.70565735
19	5500	-1.160722616	22.56963449
20	5550	-1.359248739	21.88980533
21	5600	-1.675408193	21.31594212
22	5650	-1.893703212	22.88490382
23	5700	-1.782206243	24.33742431
24	5750	-2.27910709	22.292764
25	5800	-0.441488122	28.02738578
26	5850	-0.375424574	27.95879529

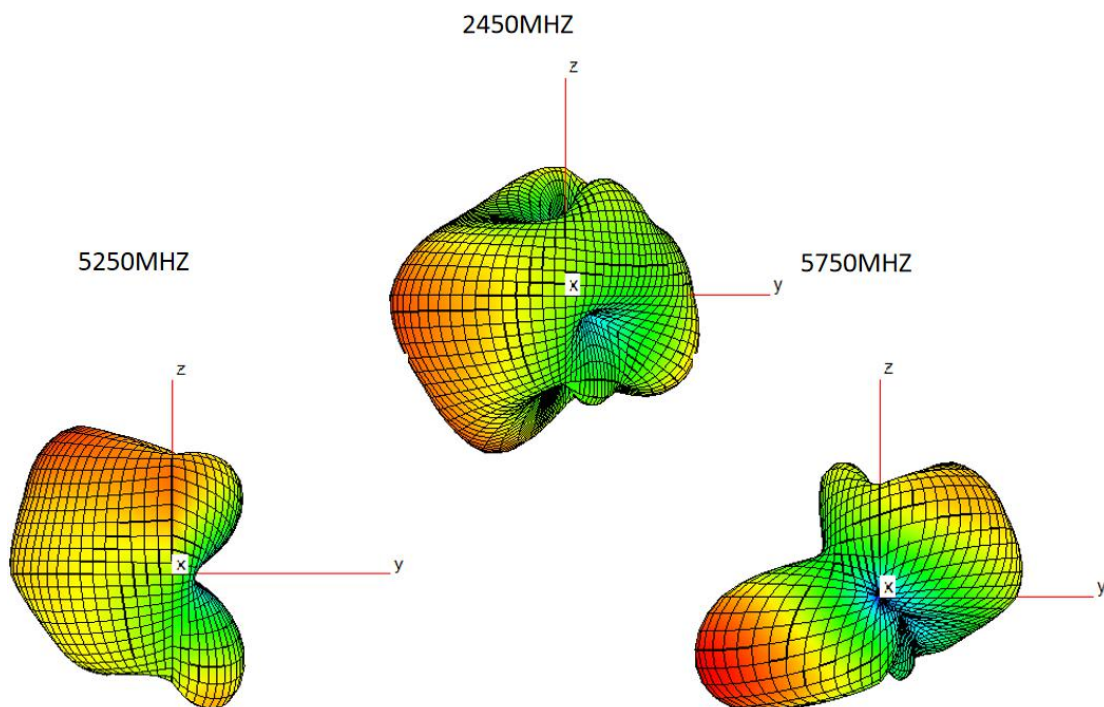


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4.3 辐射图 (3D radiation drawing)





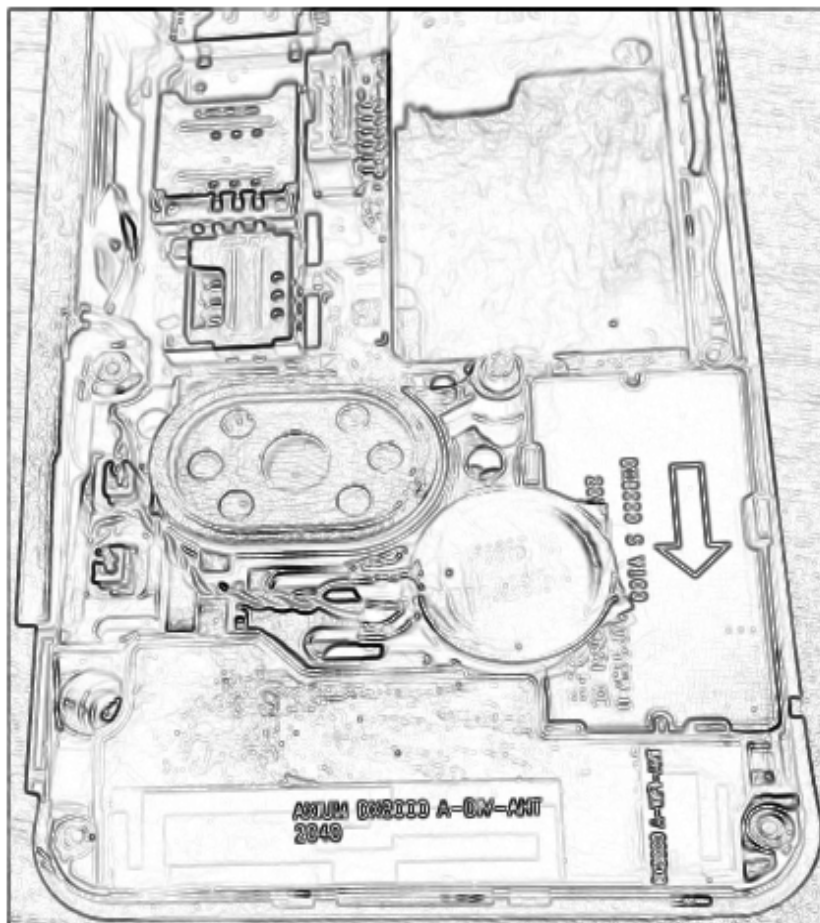
4.4 有源数据 (Active test data)

频段	参数\信道	1	7	13
WIFI-B	TRP dBm	13.21	12.67	13.25
	TIS dBm	-82.08	-80.71	-80.44
频段	参数\信道	1	7	13
WIFI-G	TRP dBm	12.19	11.98	12.11
	TIS dBm	-66.84	-66.39	-65.18
频段	参数\信道	1	7	13
WIFI-GN	TRP dBm	12.02	12.1	11.44
	TIS dBm	-64.55	-63.8	-63.7
频段	参数\信道	36	100	165
WIFI-A	TRP dBm	11.82	11.24	11.94
	TIS dBm	-67.28	-66.52	-66.13





4.5 装配图 (Environment treatment)



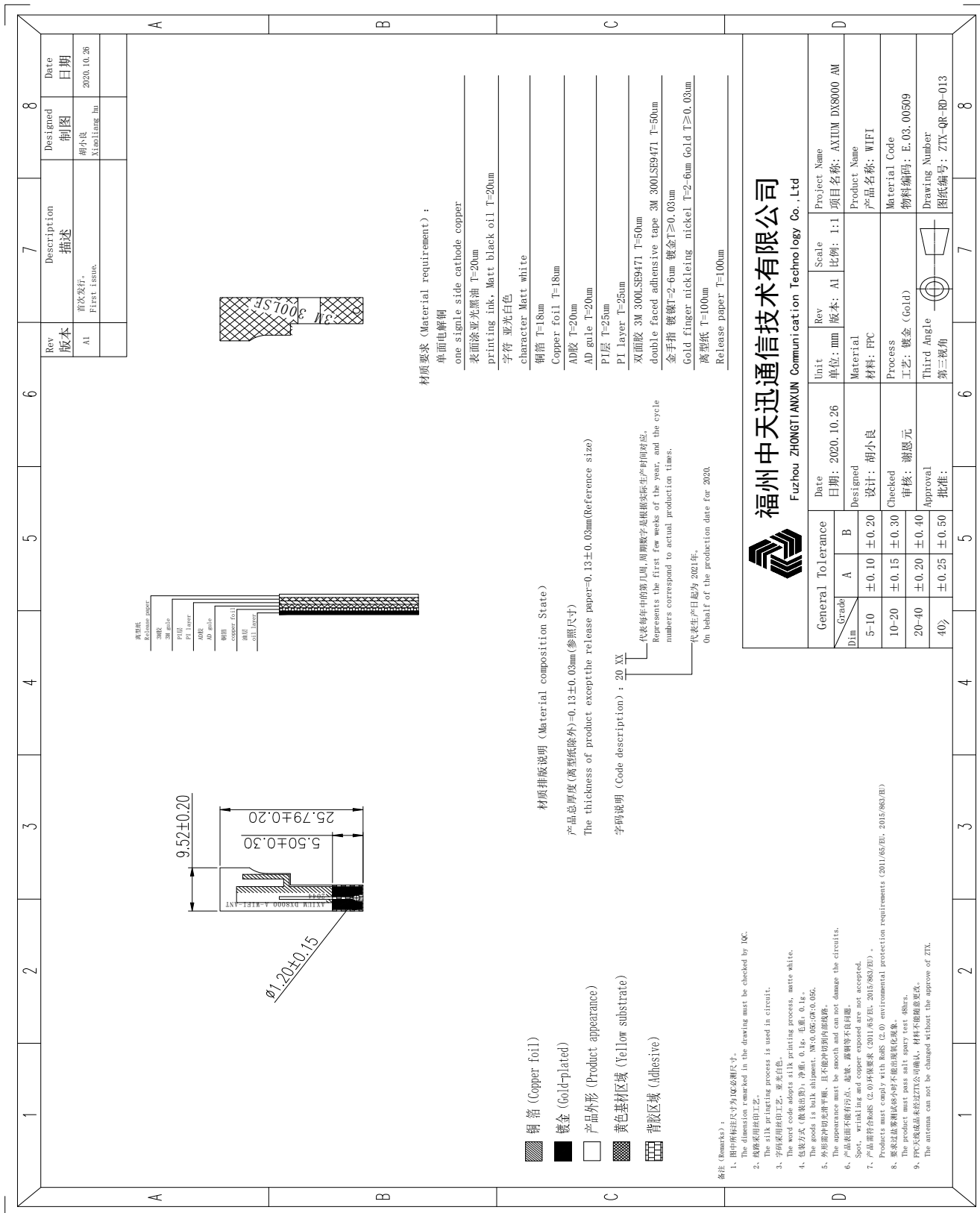
5. 阻抗匹配要求 (Matching circuit)

N/A





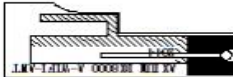
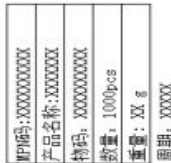
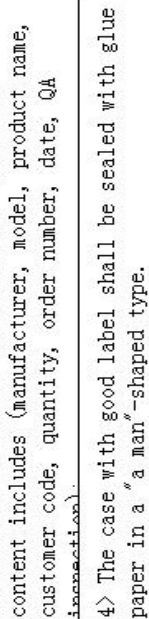
6. 天线外形图 (Mechanical Specification)





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SOP

product name	product model	Antenna Typ	Version	document number
WIFI	AXIUM DX8000 AM	FPC	A1	
Packing diagram			Packing process	matters need attention
			1 >Each 100PCS product is packaged with (130*90mm) PE sealed plastic bag and tagged with (material name, material code, quantity, date); 2 > Open PE bag (160*240mm) for every 10 bags (1000PCS); closed PE bag (230*330mm) for every 10 bags (10000PCS); packaging and label containing (material name, material code, quantity, date) 3 > Packing, carton specification (25*20*18cm), except for the end of each case (20000~40000pcs); affixed with the outer box label, affixed to the upper right corner of the outer box, the label content includes (manufacturer, model, product name, customer code, quantity, order number, date, QA inspection). 4> The case with good label shall be sealed with glue paper in a "a man"-shaped type.	1. The label is affixed to the upper right corner of the carton (label content includes: product name / quantity / manufacturing date / order number, etc.)
 Figure 2: large PE bag for every 10 small bags				
 Figure 3: small tags and traceability codes				
 Figure 4: Label and seal box				
				
Version	Contents			
				Date
				Made by
Formulation: Xiaolining hu			approval: Wumin zhang	
Audit: Qiulin long				



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