

产品规格承认书

	产品规格承认书 Product specifications acknowledgment	Jess. On	
承认厂商: _		<i>(c,</i>	
(Recognized manufacturers)		• —	
制造厂商:_	深圳市蝙蝠无线技术有限公 Shenzhen Bat Wireless Te	நி chnology Co.,	Ltd
(Manufacturer)			
产品名称:	2. 4G 软板天线 2. 4G FPC Antenna		
(Description)			

产品选型表:

(Product Type

) 型号(model)	说明(illustrate)	备注(Remark)
BW2. 4FNX42-12AL120	焊接接口线长 120mm	参数均可订制
BW2. 4FNX42-12B1L120	IPEX1 接口线长 120mm	参数均可订制
BW2. 4FNX42-12B4L120	IPEX4 接口 线长 120mm	参数均可订制

供应商承认签栏 supplier acknowledgment				
制表者(tabulator) 审核者(Inspector) 核准者(approver)				

客户承认 client a	栏 cknowledges
审核者(Inspector)	核准者(approver)

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1.1 Specifications

1.1 Specifications					
天线型号 Antennas Type	BW2. 4FNX42-12B1				
频率范围 Frequenc Range(MHz)	2400-2500				
输入阻抗 Impendence (Ω)	50 Ω				
电压驻波比 V. S. W. R	<2N				
增益 Gain (dBi)	2. 22dBi				
极化形式 Polarization Type	垂直 Vertical				
功率容量 Power Capacity (w)	50				
雷电保护 Lingtning Protection	None				
工作电压 DC Voltage (V)	None				
天线尺寸 Dimension (mm)	42x12				
接口形式/Connector Type:	IPEX-1				
电缆型号 Cable type (mm)	Ф1.13				
电缆长度 Cable length(mm)	120				
辐射体 Radiator	None				
天线颜色 Color	黑色 Black				
重量 Weight(g)	None				
工作温度 Operating Temperature (℃)	-40 ⁸⁰				
储藏温度 Storage Temperature (℃)	-20 ⁸⁵				

*注:以上数据仅供参考;因天线功能较为敏感,主体周边机构有变更请通知我们评估。

* Note: The above data are for reference only; as the antenna function is more sensitive, please inform us for evaluation if there is any change in the surrounding institutions of the main body.

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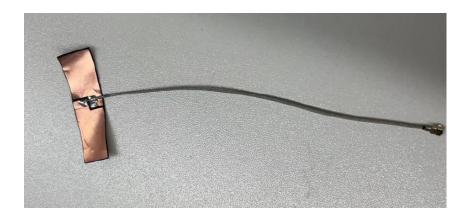


1.2 Antenna Picture



The above model: BW2.4FNX42-12B1 The picture is for reference only

(Customize the length of the middle connecting line of the customer, and the shape of the antenna) $\,$



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2. Electrical Specification

2.1 Test Equipment

A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer

Stylless.on B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

2.2 Test Setup

2.2.1 Frequency Range

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



Figure.1

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2.2.3 Radiation pattern and Gain

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).

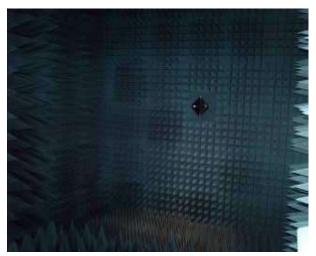






Figure.3







Figure.5

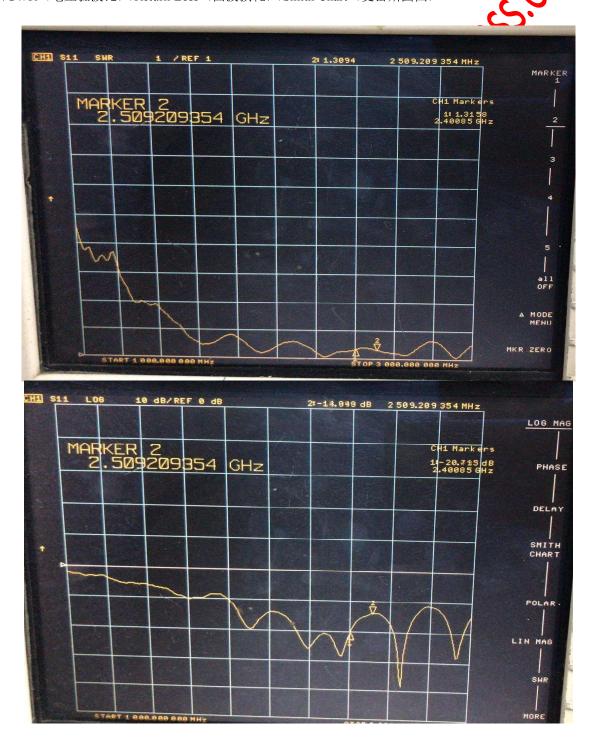
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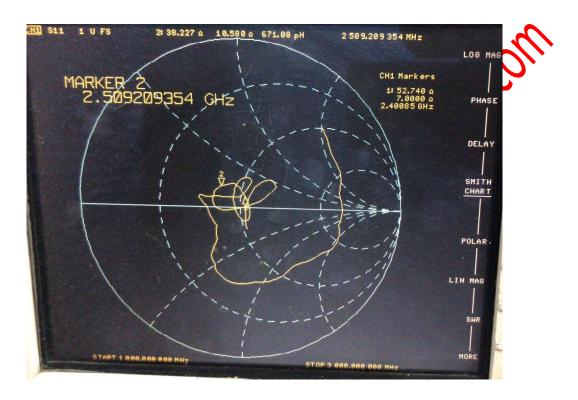
3. Performance Data

3.1 Passive data

VSWR(电压驻波比)/Return Loss(回波损耗)/Smith Chart(史密斯圆图)



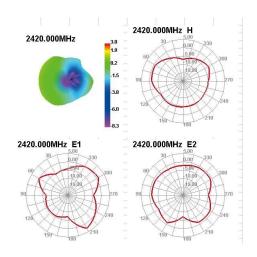
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*注:以上为实测数据,仅供参考;因天线功能较为敏感,主体周边机构有变更请通知我们评估。

* Note: The above data are actual measurements and are for reference only; as the antenna function is more sensitive, please inform us for evaluation if there are any changes in the surrounding institutions of the main body.

	Passive Test For WIFI					
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)
2400	54.51	-2.64	1. 93	-1.22	27.374	27. 137
2410	53. 12	-2.75	1. 97	-1. 18	26.984	26. 137
2420	54. 92	-2.6	2. 22	-0.93	28. 175	26.746
2430	53. 16	-2.74	2.04	-1. 11	27.347	25, 813
2440	52.85	-2.77	1.9	-1.25	27.092	25.756
2450	54. 93	-2.6	1. 95	-1.2	27. 939	26. 992
2460	56. 27	-2.5	1. 99	-1.16	28.379	27.893
2470	56.58	-2.47	2.06	-1.09	28.364	28. 212
2480	60.33	-2. 19	1. 44	-0.71	30. 169	30.16
2490	65. 91	-1.81	1. 97	-0. 18	32.97	32.943
2500	63. 79	-1.95	1.9	-0.25	32.048	31, 746

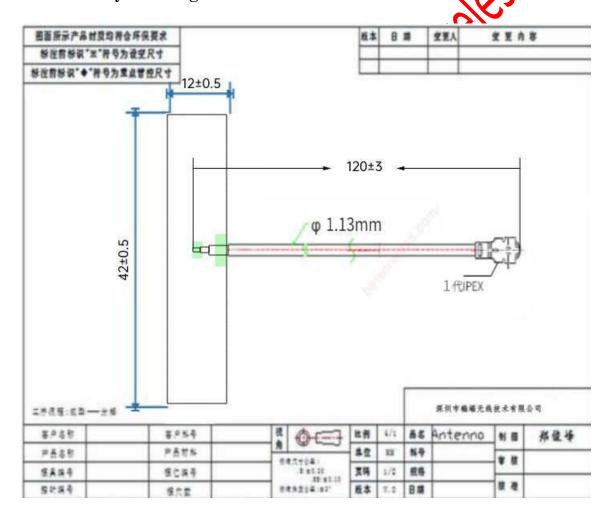


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4.Mechanical Specification

4.1 Assembly Drawing



Note: The above size product model is:: BW2.4FNX42-12B1L120

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5. RF113

1. 适用范围

本规格书制定了电线的结构和电气特性

1. Scope

This specification covers the construction and the electrical properties of wire.

Coaxial Wire

AWG 32

同轴线 AWG 32

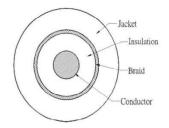
2. 结构/Construction 单位/Unit: mm

			Manager Resources Controlled
项目/Item		单位/Unit	详细资料/Details
Conductor	材料/Material	-	绞合镀银铜丝 Silver-coated copper wire
	构成/Composition	(No./mm)	7/0.08
导体	外径/OD.	mm	0.24
	绞向/Orientation	-	S
	材料/Material	-	FEP(进口料)
Insulation	绝缘颜色/Insulation color	-	本色/Natural
绝缘层	标称绝缘厚度/	mm	0.22
	绝缘线径/OD.	mm	0.69
Braid Shield 编织	材料/Material	-	镀锡铜丝 Tinned copper wire
	构成/Composition	(No./mm)	16/4/0.05
	编织密度/Coverage	(%)	>=90
Jacket 外被	材料/Material	-	FEP
	标称绝缘厚度/ Nom. Thickness	mm	0.12
	外径/OD.	mm	1.13±0.10

3. Electrical Properties (at 20℃) /电气特性(20℃时)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	571 (Max.)
绝缘电阻/Insulation Resistance	MΩ • km	100 (Min.)
耐压强度(AC)/Dielectric Strength(AC)	V/ 1 Min	500
特性阻抗/Impedance	Ω	50 ± 3
耐温等级/ Temperature	$^{\circ}$	200
额定电压/rated voltage	V	30

4. 电线截面图示如下:





6.免责声明(Disclaimer):

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