SPECIFICATION



ShenZhen TianDa Communication CO., LTD

BA530 antenna

Product Certification

Customers	Five grams	Frequency bands	Sub 1G - 915MHz
The name of the project	BA530	Edition	A
Item part number	WK-BA-53-F2-A	Color	Color
RF design	Wang Xinchuang	Structural design	Zhou Luhong
Date	2024.04.12	_	

The Client acknowledges that:					
Whether the assembly meets your company	y's requirements: □OK □NG				
Shenzhen Tianda Communication Co., Ltd	ShenZhen TianDa Communication CO., LTD.				
302, Building A, Jingang Science and Technology Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen	302 Building A, JinGang science and Technology Park Qiaotou community, Fuhai Street, Bao'an District, Shenzhen				

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1. 915MHz antenna

1. Specifications

This acknowledgment mainly provides the test status of the electrical and structural performance parameters of the 915MHz antenna of the BA530 project. The picture below is a picture of the 915MHz antenna designed by Tianda.



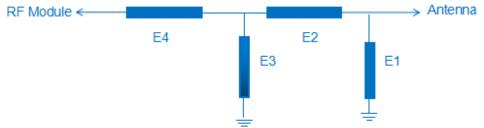
1.1 Electrical specifications

1.1.1. Electrical performance indicators

The operating frequency band of the antenna of the project is 900-930MHz, and the following are the electrical performance indicators of the antenna designed and trial-produced by Investec.

WIFI				
Band	Frequency (MHz)	VSWR		
915MHz	900-930	≤2.0		

1.1.2. Matching circuit diagram

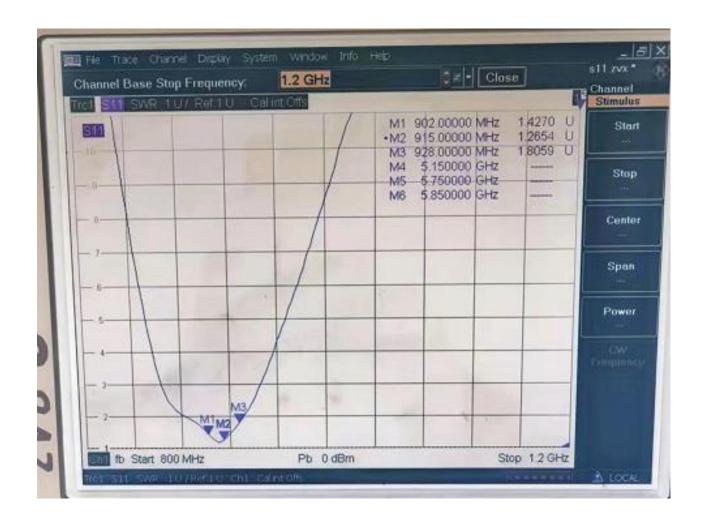


The match has not changed.

1.2, Test

1.2.1. Passive testing

1.2.1.1. Antenna Standing Wave Test (VSWR).

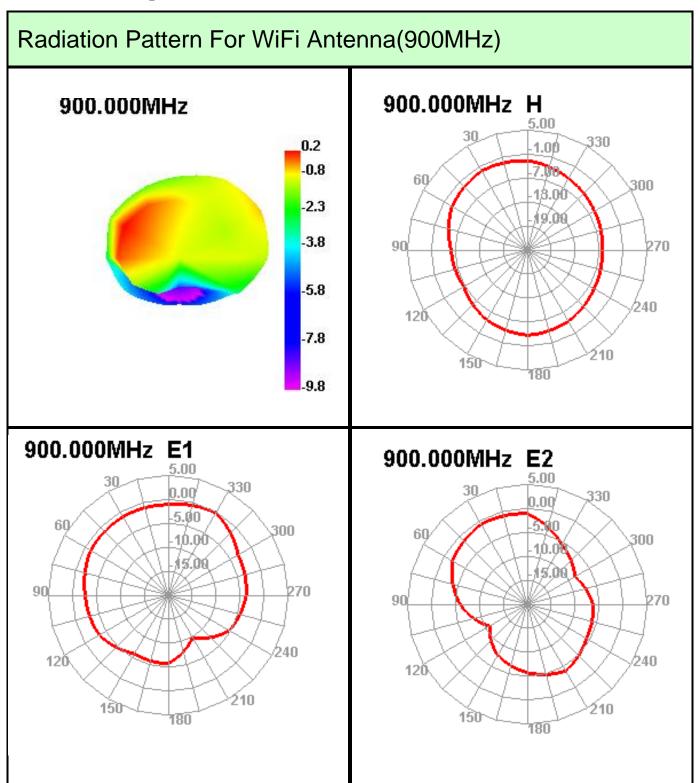


Confidentiality requirements

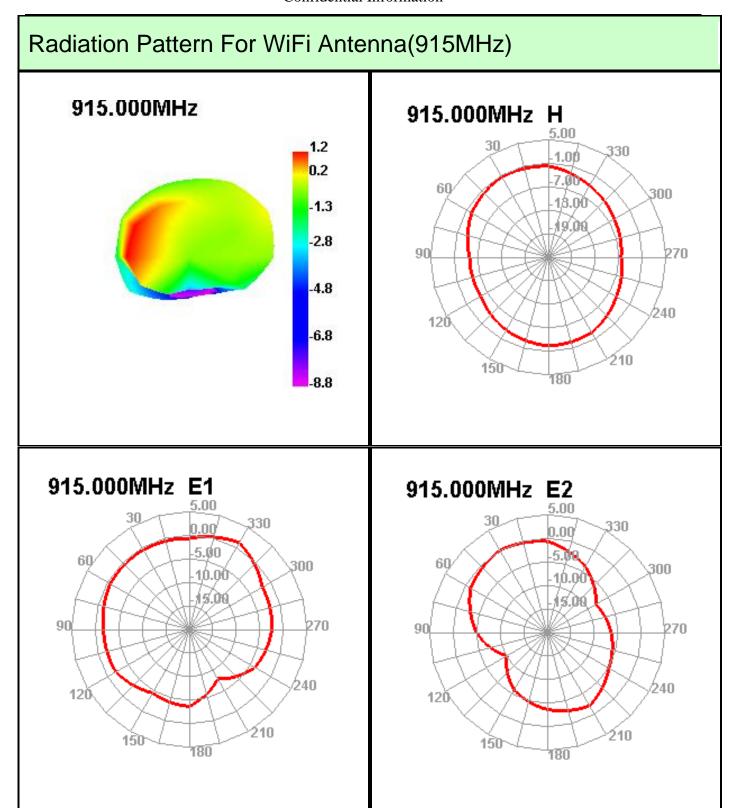
1.2.1.2. Antenna gain and efficiency

Passive Test For WiFi Antenna(2.4G)					
Freq	Effi	Effi	Gain		
(MHz)	(%)	(dB)	(dBi)		
900	38.8	-4. 11	0. 16		
905	44. 52	-3. 51	0. 79		
910	46. 19	-3. 35	0.93		
915	49. 79	-3.03	1. 25		
920	47. 48	-3. 23	1. 07		
925	46. 7	-3. 31	0. 98		
930	43. 1	-3.66	0. 55		

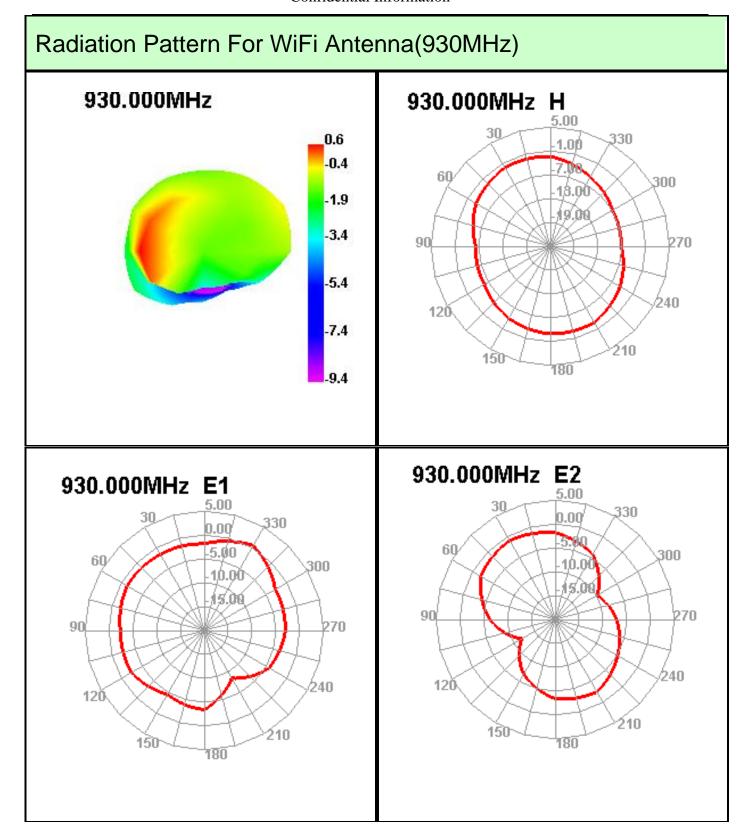
1.2.1.3. Antenna pattern



Confidentiality requirements



Confidentiality requirements



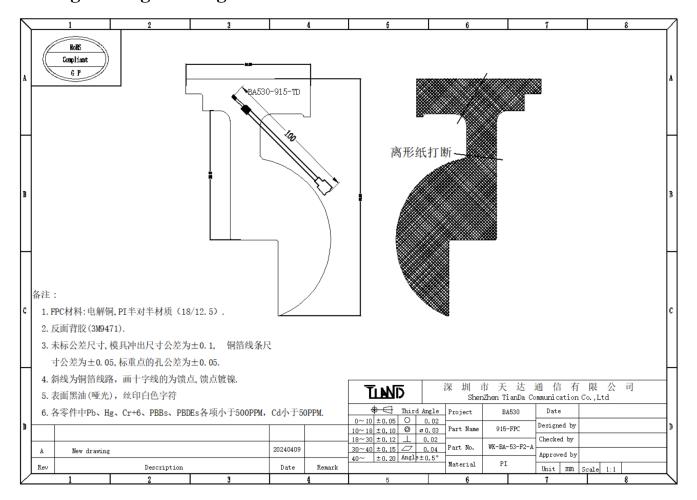
Confidentiality requirements

2. Structural specifications

2.1. Antenna composition

The 915MHZ antenna is mainly composed of Cable line + FPC.

2.2. Engineering drawings



III. Conclusion

This antenna is designed on the prototype provided by the customer, and the electrical parameters and structural dimensions have met the technical requirements, please confirm!

Fourth, packaging

Packed in plastic bags.

Confidentiality requirements