



Shenzhen DEWEIMA Communication Equipment Co.,Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	REESTAR INTERNATIONAL LIMITED Shenzhen Ruiyi Business Technology Co.,Ltd
CUSTOMER P/N	ES-CS20M
PART NAME	BT Antenna
DWM NO.	
APPROVAL REV.	DWM-V1.0

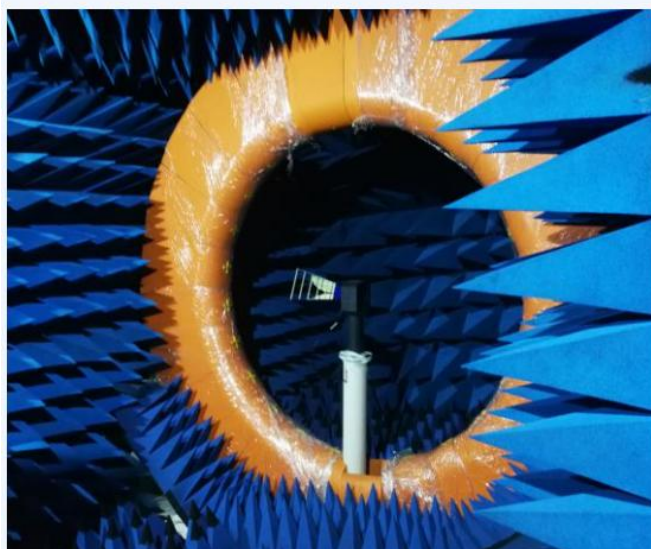
CONTRACTOR			DATE : 2024-07-08
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

CUSTOMER		DATE :
Approved By	Checked By	Prepared By

1. Product Application

Terminal of the antenna products can only be used for BT antenna.

2. The test equipment



A 24-probe microwave chamber



R&S CMW500



Agilent E5515C



Agilent Technologies E5071B

3. BT Antenna description

3.1 BT Technology Parameters

Manufacture: Jiangxi Xinmanda Circuit Co., Ltd

Address: Building B1, Block D11-1-B, Jizhou District industrial park, Ji'an, Jiangxi province

Antenna Model: NA

BT antenna type: PCB antenna

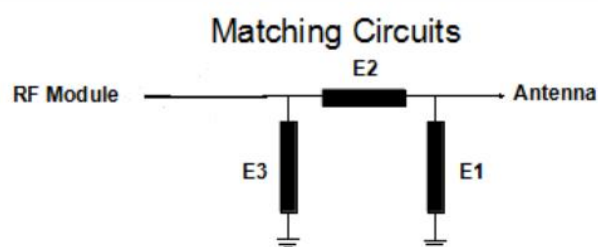
BT Frequency Range: 2400MHz-2500MHz

Maximum antenna gain: 2.65dBi

Operating Humidity: 85% R.H.MAX

Temperature Rating: 5°C ~ +40°C

3.2 BT matching circuit



Element	Value
E1(0402)	1PF
E2(0402)	12PF
E3(0402)	NC



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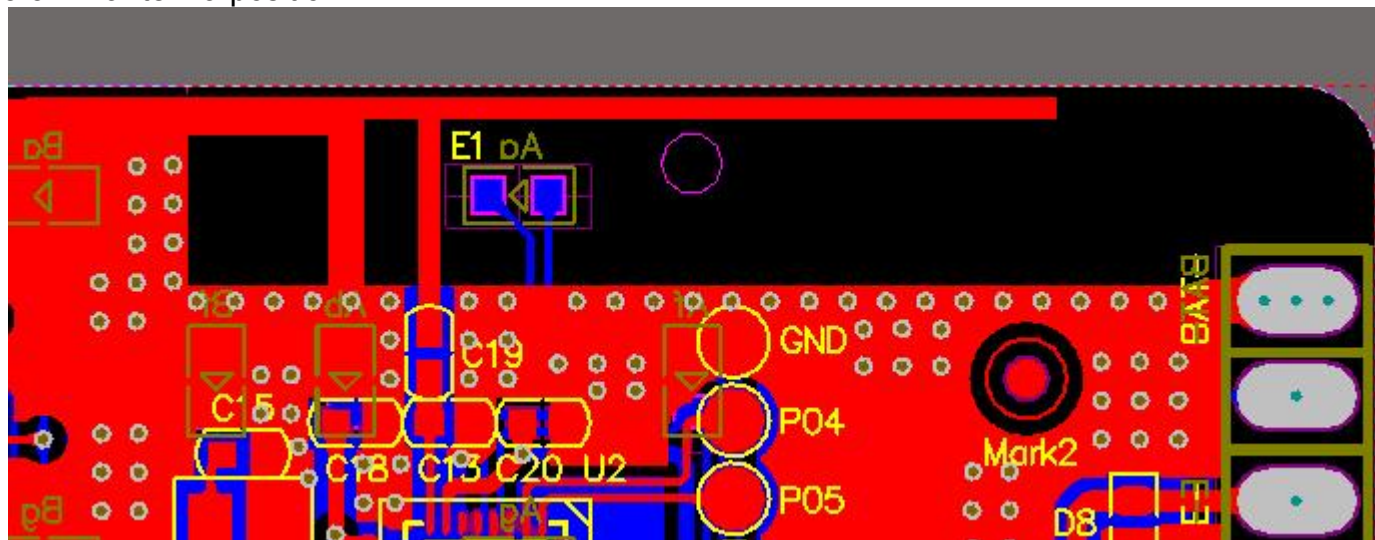
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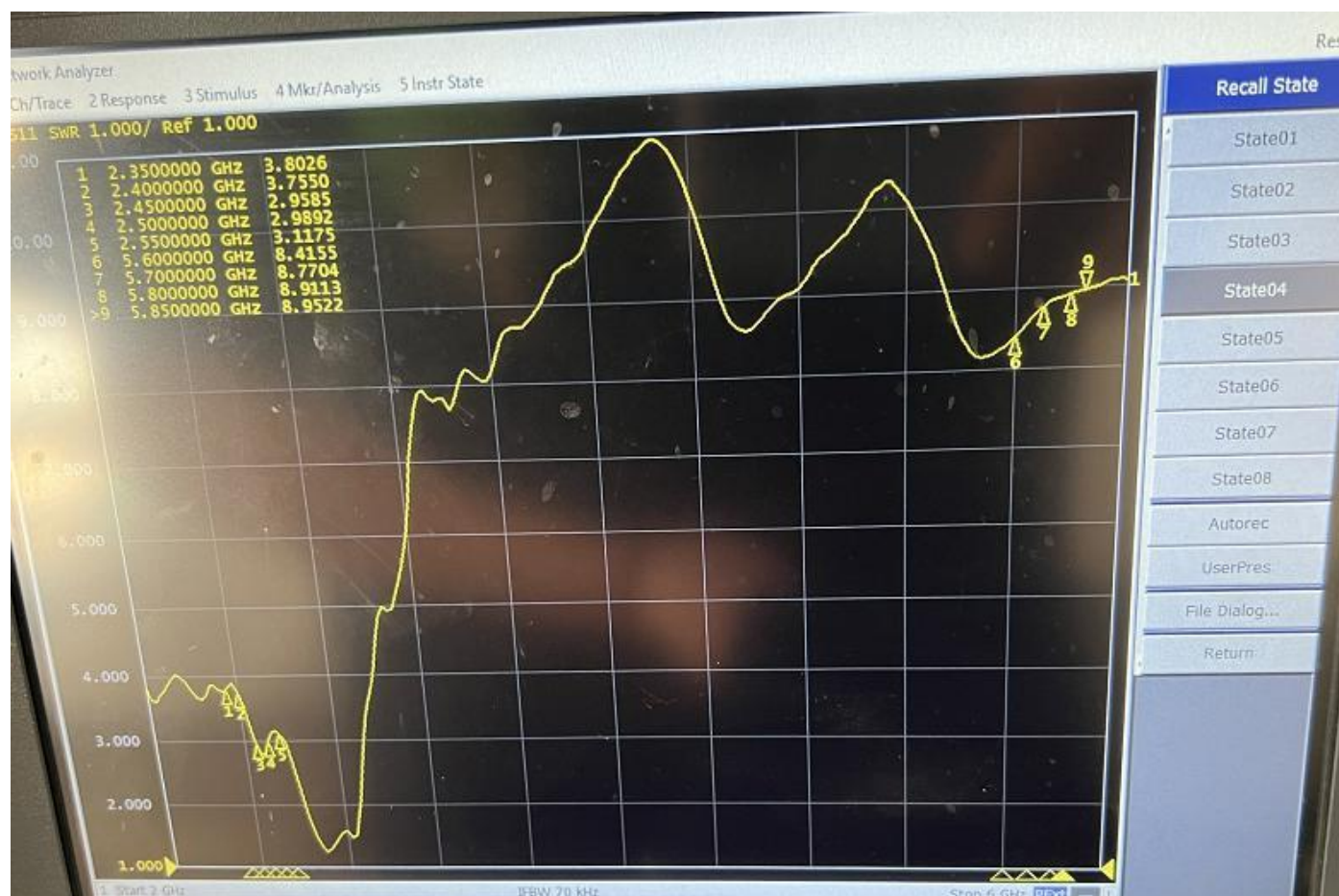
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3.3 BT antenna position



3.4 BT VSWR/Return Loss/Smith:





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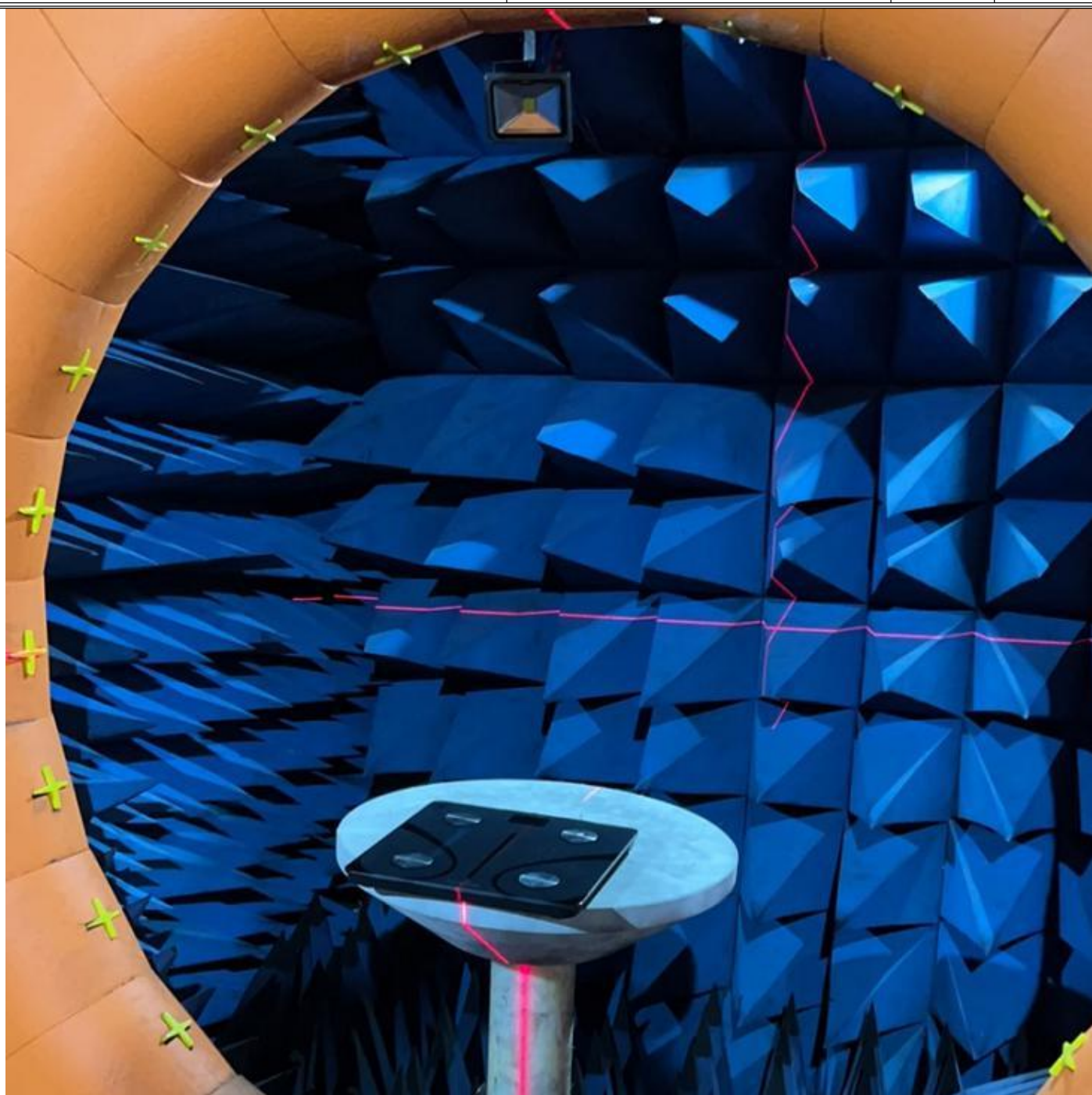
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3.5 BT Efficiency And Gain:

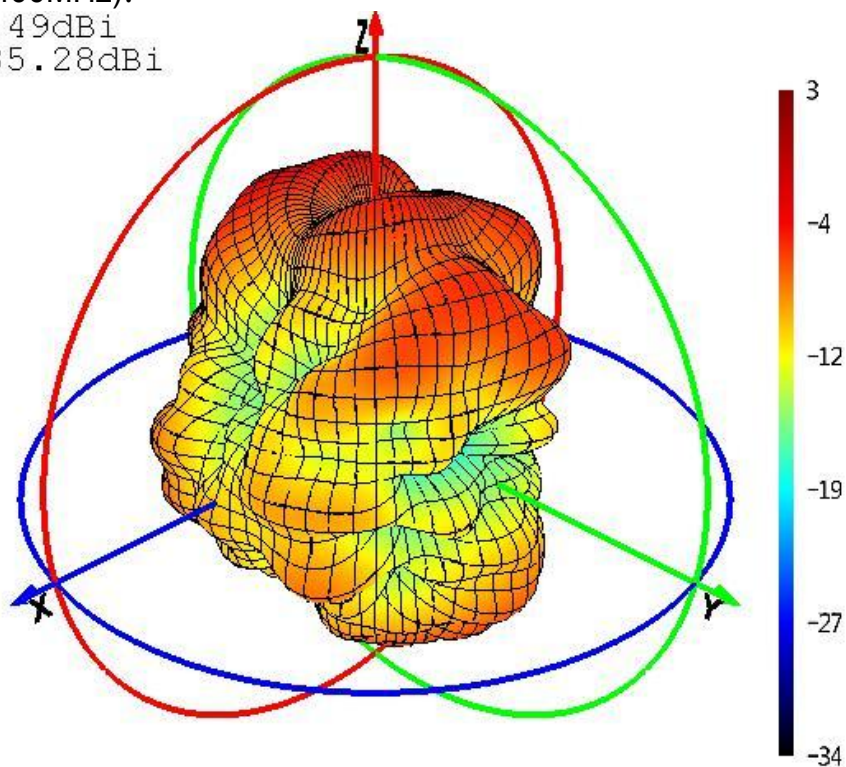
Gain&Efficiency 增益、效率				
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	2.49	-35.28	-5.89	25.78
2410.00	2.35	-34.79	-5.90	25.70
2420.00	2.65	-33.18	-5.67	27.11
2430.00	2.62	-37.35	-5.48	28.32
2440.00	1.93	-33.45	-6.22	23.88
2450.00	1.90	-37.23	-6.24	23.79
2460.00	1.67	-35.25	-6.29	23.49
2470.00	1.99	-39.87	-6.00	25.10
2480.00	2.03	-33.73	-5.62	27.43
2490.00	2.18	-29.17	-5.34	29.27
2500.00	2.65	-26.84	-4.78	33.24

3.7. BT 3D Pattern

Antenna 3D Pattern(2400MHz):

MAX: 2.49dBi

MIN: -35.28dBi





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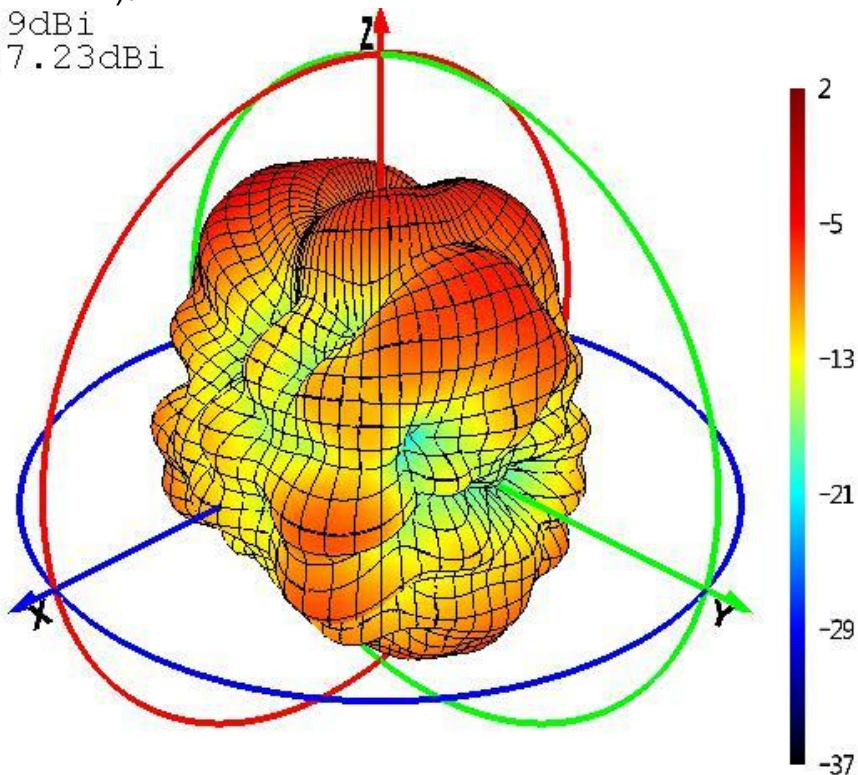
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Antenna 3D Pattern(2450MHz):

MAX:1.9dBi

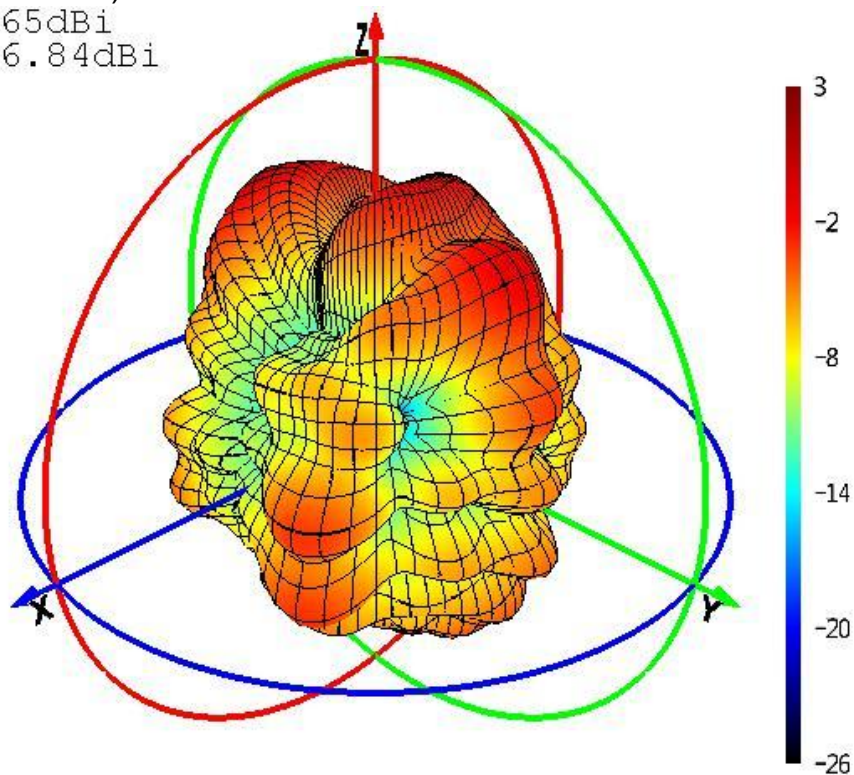
MIN:-37.23dBi



Antenna 3D Pattern(2500MHz):

MAX:2.65dBi

MIN:-26.84dBi





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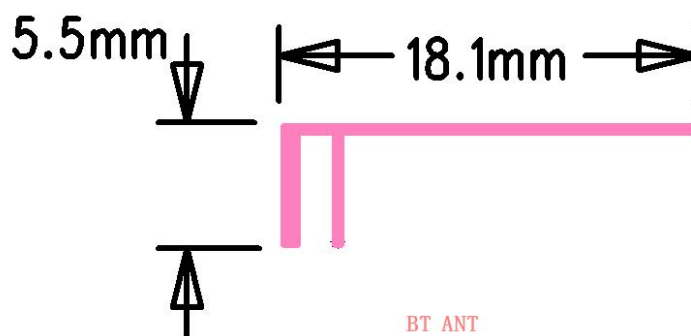
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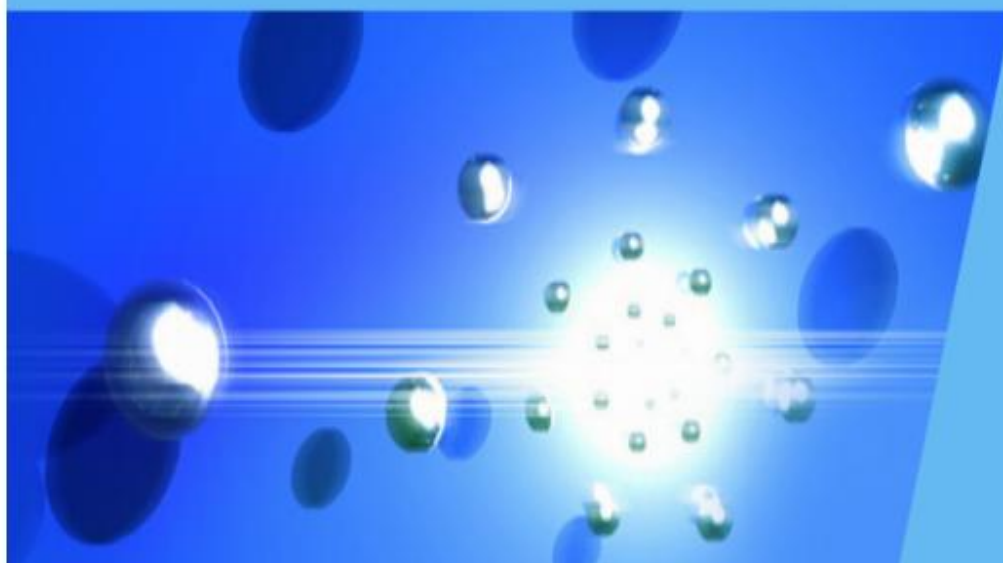
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3.7 BT Engineering drawings:



PCB on-board antenna

Professional RF R&D institutions



Thank You !

公司地址: 深圳市宝安23区创业二路友谊大厦1栋3楼 邮编: 518101
3rd Floor,first unit,Friendships Building,Chuangye 2rd Road,Baoan
23 district,Shenzhen,China Post NO:518101
TEL: 0755-27885759 FAX: 0755-27885739
E-mail: 2880181958@qq.com