



Shenzhen DEWEIMA Communication Equipment Co.,Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Shenzhen unique Scales Co.,Ltd
CUSTOMER P/N	CF655BLE (VFS445)
PART NAME	BT Antenna
DWM NO.	
APPROVAL REV.	DWM-V1.0

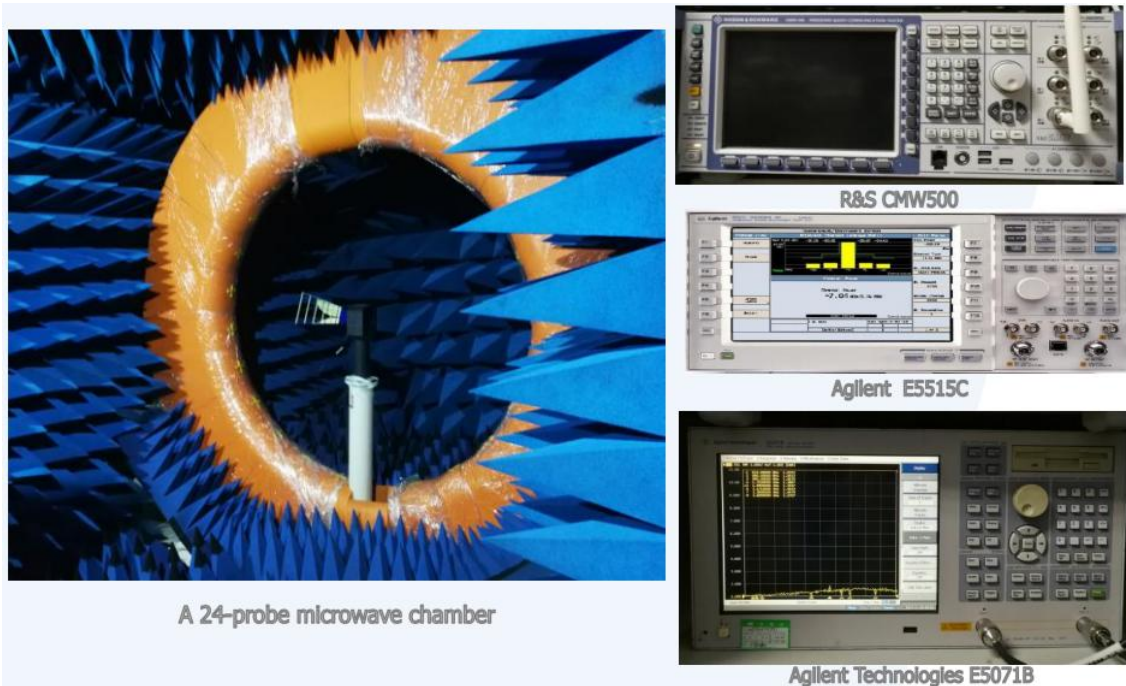
CONTRACTOR			DATE: 2025-03-03
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

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



3. BT Antenna description

3.1 BT Technology Parameters

BT Frequency Range: 2400MHz-2500MHz

BT antenna type: PCB

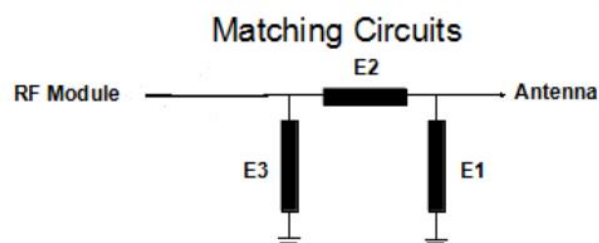
Model: NA

Manufacture: Jiangxi Xinmanda Circuit Co., Ltd

Operating Humidity: 85% R.H.MAX

Temperature Rating: 5°C ~ +40°C

3.2 BT matching circuit



Element	Value
E1(0402)	1.0PF
E2(0402)	0 Ω
E3(0402)	NC



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BT Antenna

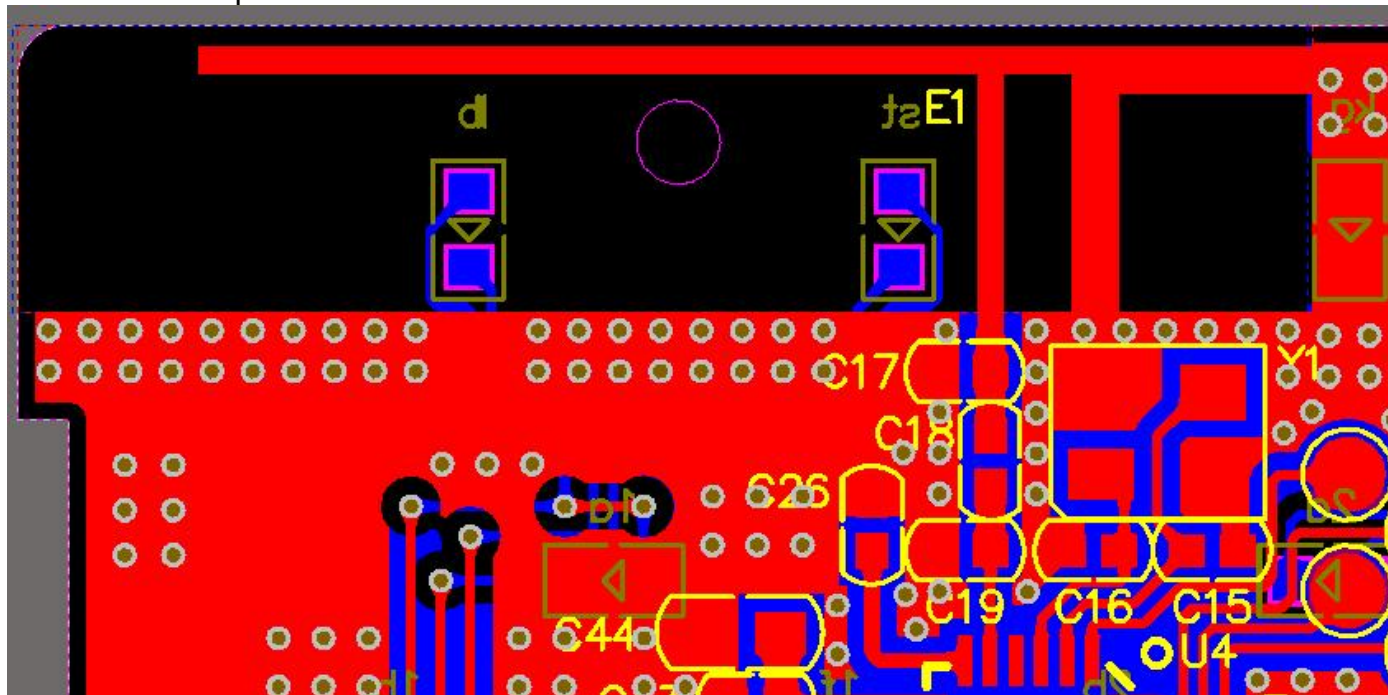
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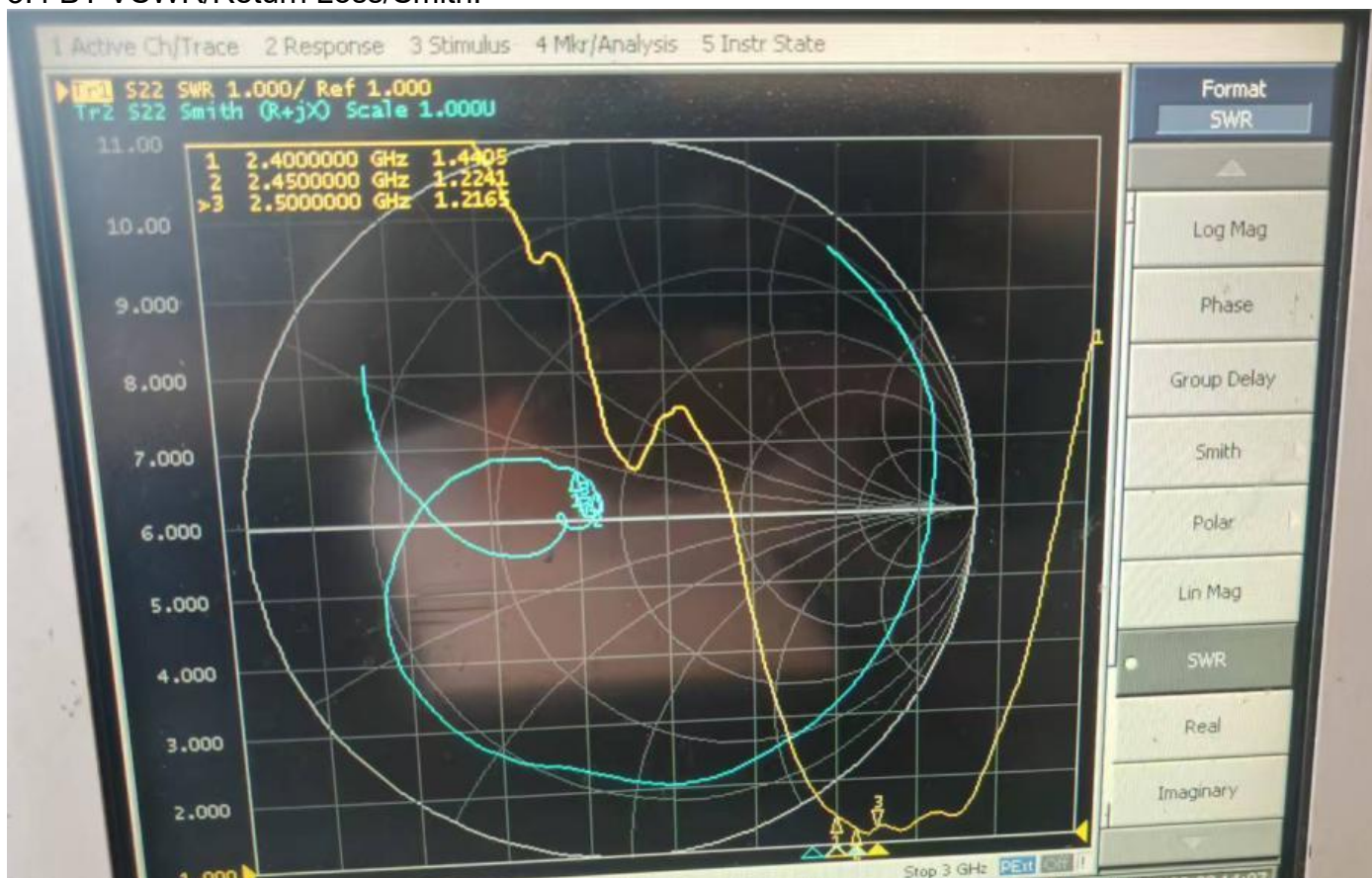
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3.3 BT antenna position



3.4 BT VSWR/Return Loss/Smith:





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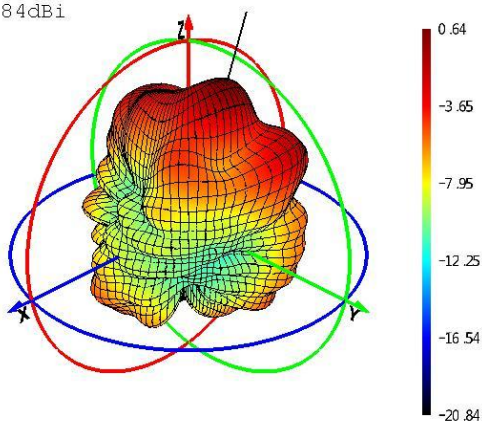
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3.5 BT Efficiency And Gain:

Gain&Efficiency 增益、效率				
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益(dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	0.64	-20.84	-4.94	32.06
2410.00	0.36	-22.45	-4.76	33.42
2420.00	0.16	-24.58	-4.73	33.65
2430.00	-0.50	-25.73	-4.67	34.12
2440.00	-0.21	-23.16	-4.46	35.85
2450.00	-0.08	-21.40	-4.41	36.24
2460.00	0.69	-20.03	-4.18	38.21
2470.00	1.06	-20.84	-4.06	39.24
2480.00	0.95	-22.91	-4.10	38.91
2490.00	1.28	-23.46	-3.87	41.06
2500.00	1.11	-23.97	-4.09	39.04

3.6. BT 3D Pattern 2400MHz

MAX: 0.64dBi
MIN: -20.84dBi





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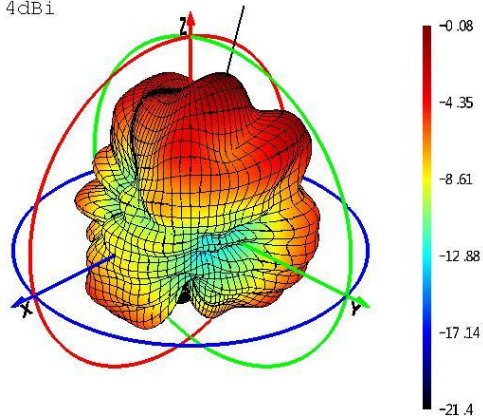
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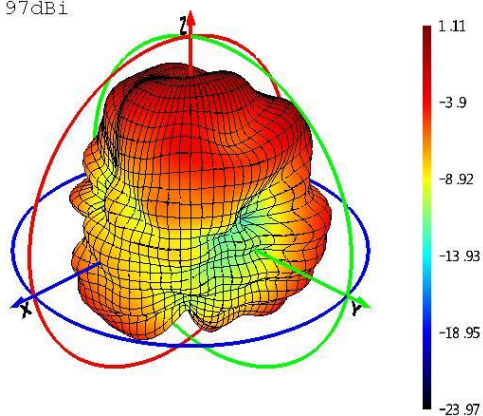
2450MHz

MAX: -0.08dBi
MIN: -21.4dBi

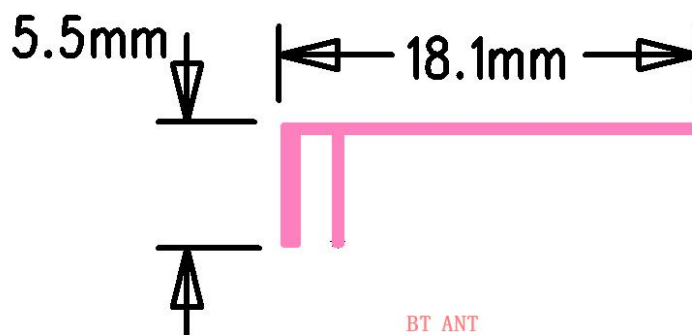


2500MHz

MAX: 1.11dBi
MIN: -23.97dBi

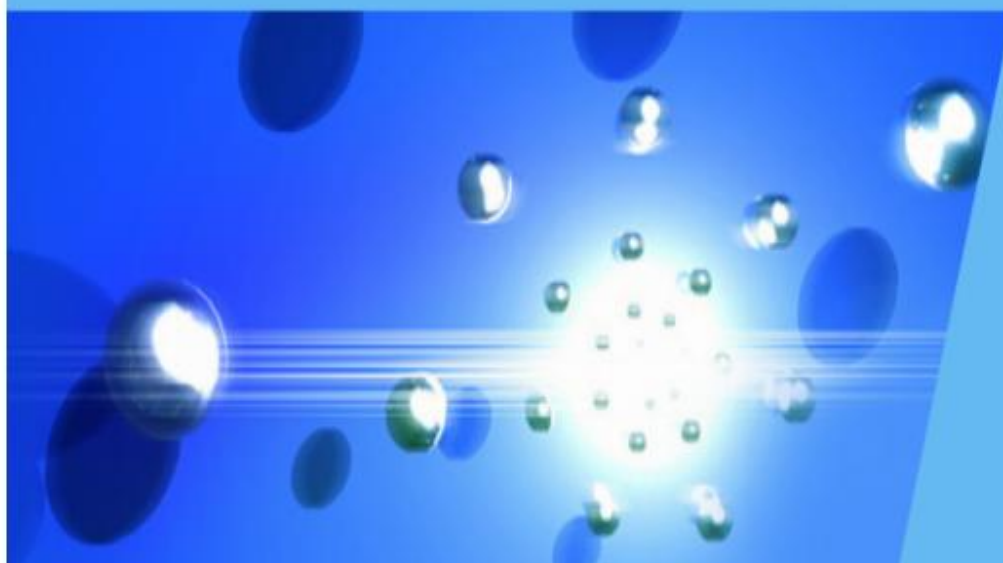


3.7 BT Engineering drawings:



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