



Shenzhen DEWEIMA Communication Equipment Co.,Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Shenzhen unique Scales Co.,Ltd
CUSTOMER P/N	CF591BLE (R-A017)
PART NAME	BT Antenna
DWM NO.	
APPROVAL REV.	DWM-V1.0

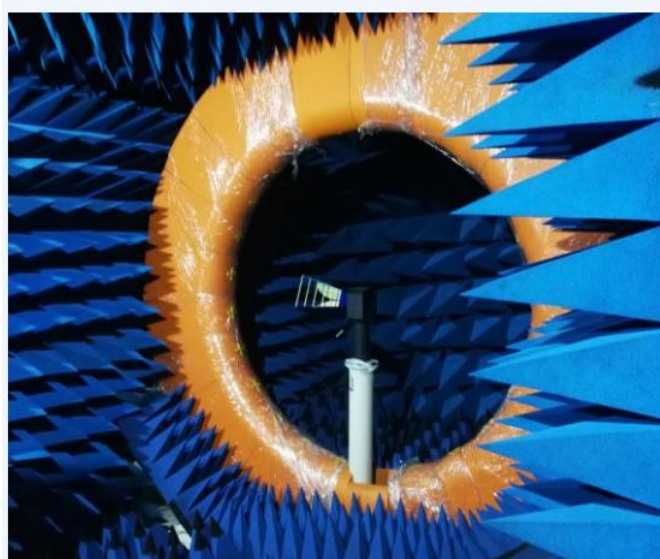
CONTRACTOR			DATE : 2023-09-24
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

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

BT Frequency Range: 2400MHz-2500MHz

BT antenna type: PCB

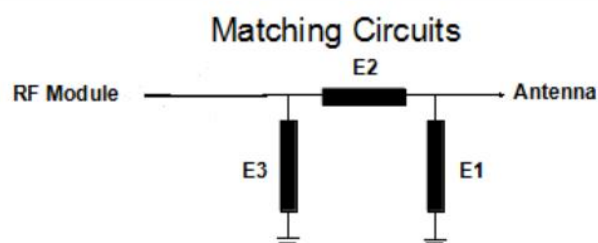
Model: NA

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)	
E2(0402)	4.7PF
E3(0402)	0.5PF



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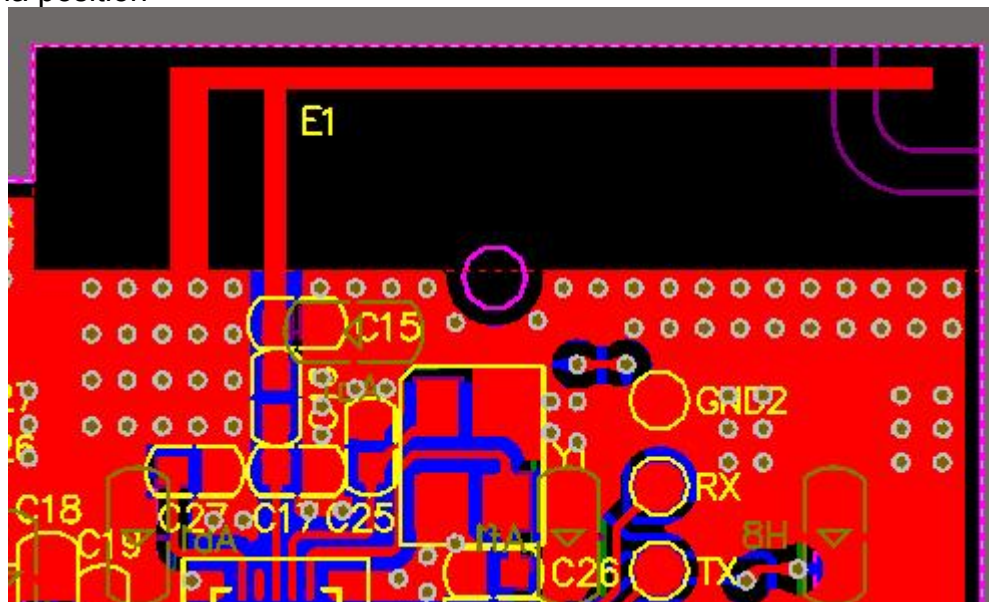
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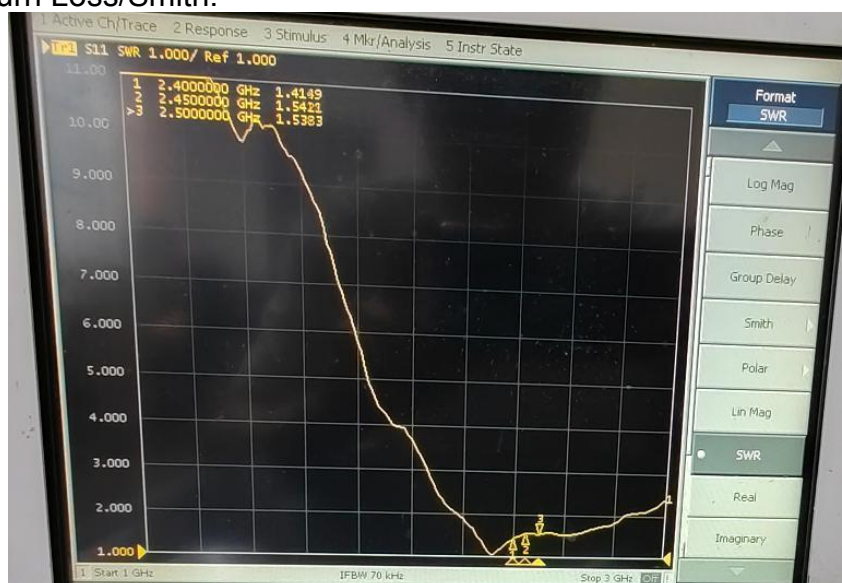
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3.3 BT antenna position



3.4 BT VSWR/Return Loss/Smith:



3.5 BT Efficiency And Gain:



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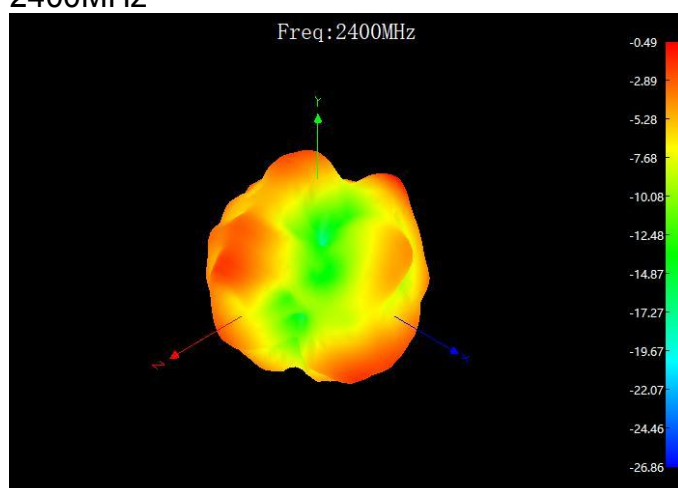
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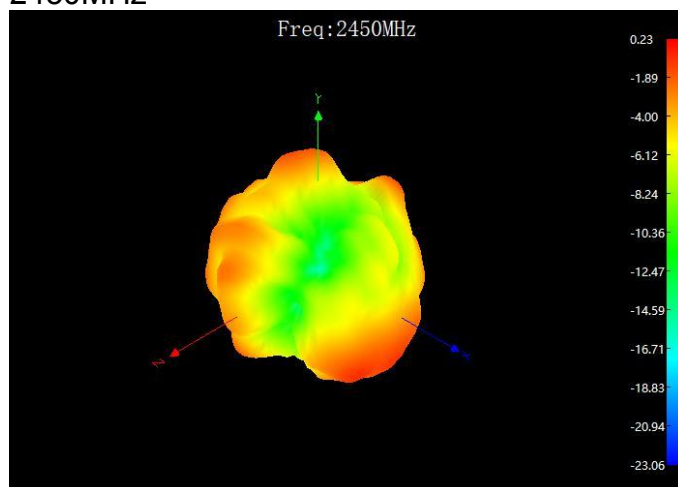
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Frequency/Mhz	Efficiency / dB	Efficiency / %	Frequency/MHz	MaxGain/dBi	AvgGain/dBi
2400	-5.34	29.24	2400	-0.49	-5.34
2410	-5.42	28.71	2410	-0.42	-5.42
2420	-5.16	30.48	2420	-0.09	-5.16
2430	-5.1	30.9	2430	-0.19	-5.1
2440	-5.25	29.85	2440	-0.34	-5.25
2450	-5.02	31.48	2450	0.23	-5.02
2460	-4.98	31.77	2460	0.58	-4.98
2470	-5.21	30.13	2470	0.58	-5.21
2480	-5.19	30.27	2480	0.71	-5.19
2490	-5.01	31.55	2490	0.8	-5.01
2500	-5.15	30.55	2500	0.68	-5.15

3.6. BT 3D Pattern 2400MHz



2450MHz



2500MHz



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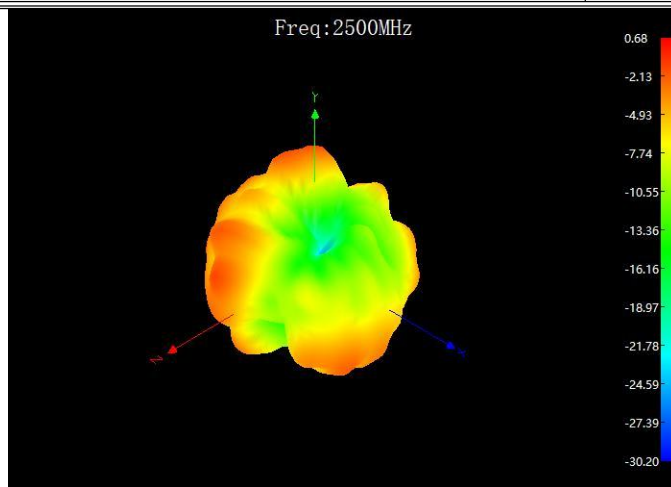
BT Antenna

Rev.:

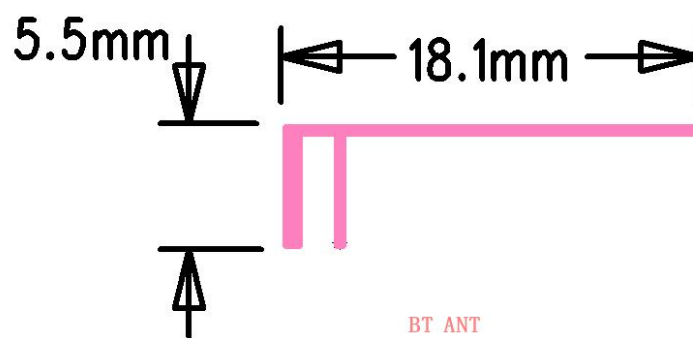
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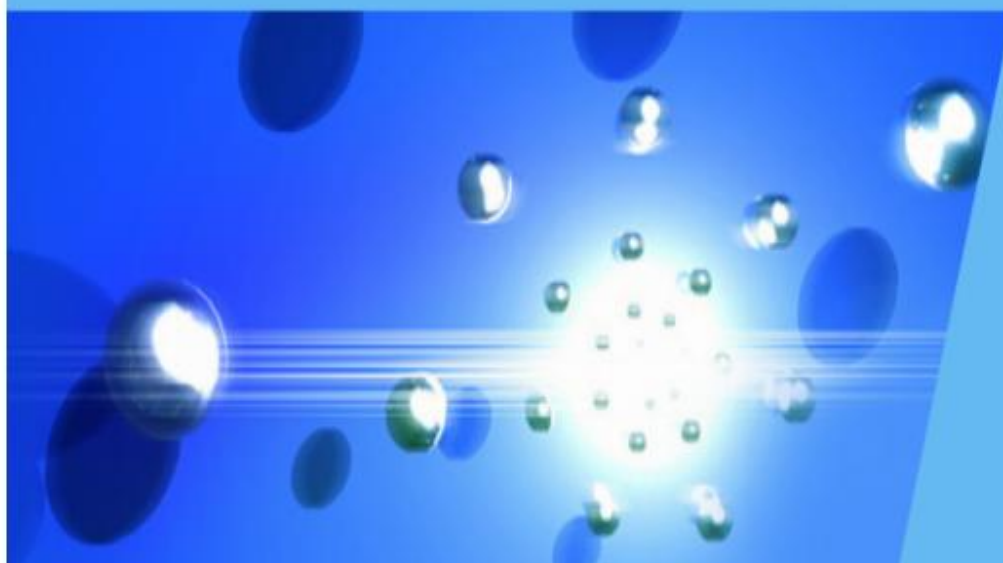


3.7 BT Engineering drawings:



PCB on-board antenna

Professional RF R&D institutions



Thank You !

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