

Antenna Measurement Report for BT259

Antenna Type: PCB Antenna

Antenna model: BT259

PCB manufacturer:

Address:

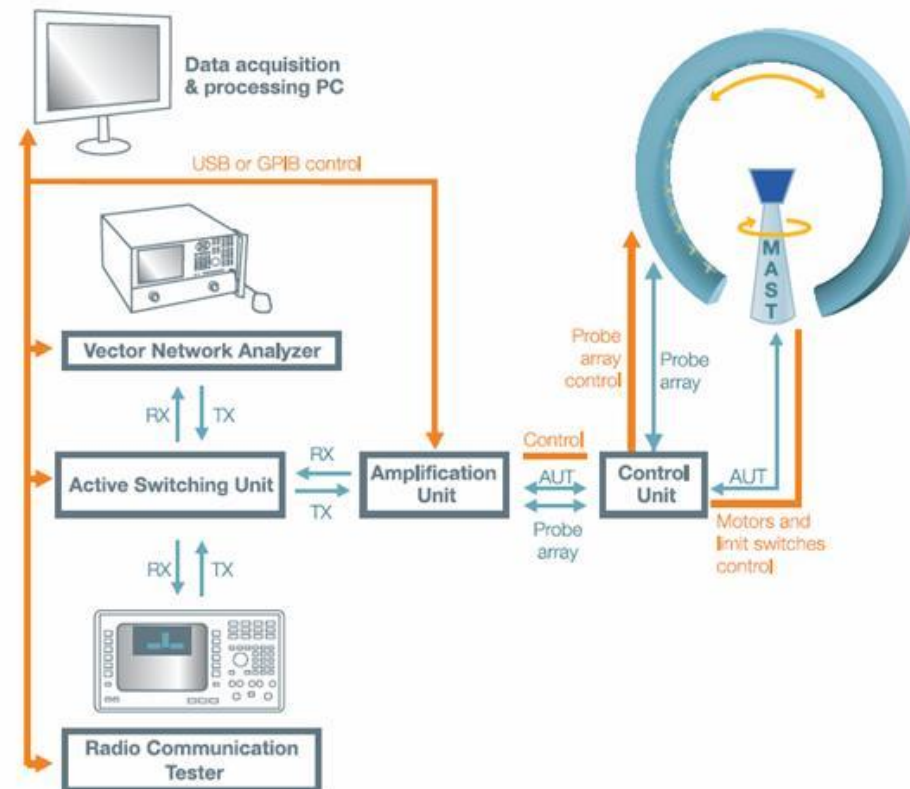
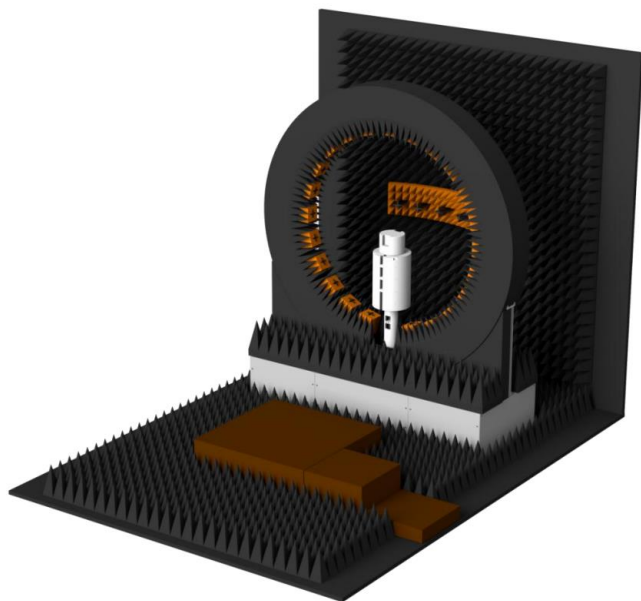
Antenna Measurement Report

Project name:	BT259
Type of antenna:	BT
Frequency range:	2.4-2.5GHz
Redact:	蒋代铭
Approver:	
Version number:	V1.0
Date:	2020307

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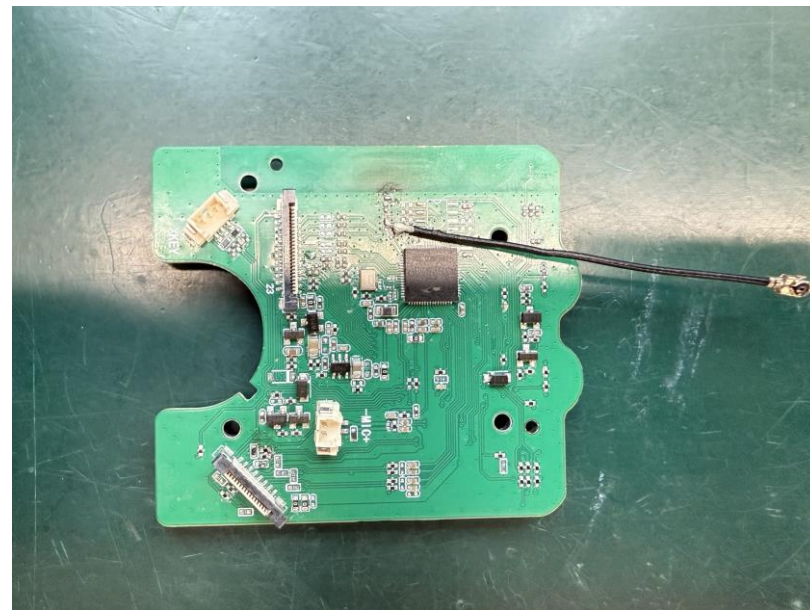
Test Items and Equipment

QUIPMENT	BRAND	MODULE TYPE
Network Analyzer	KEYSIGHT	E5071C 9k~8.5G
Signal Generator	R&S	CMW 500
Microwave anechoic chamber	XH-IOE	ATS-300

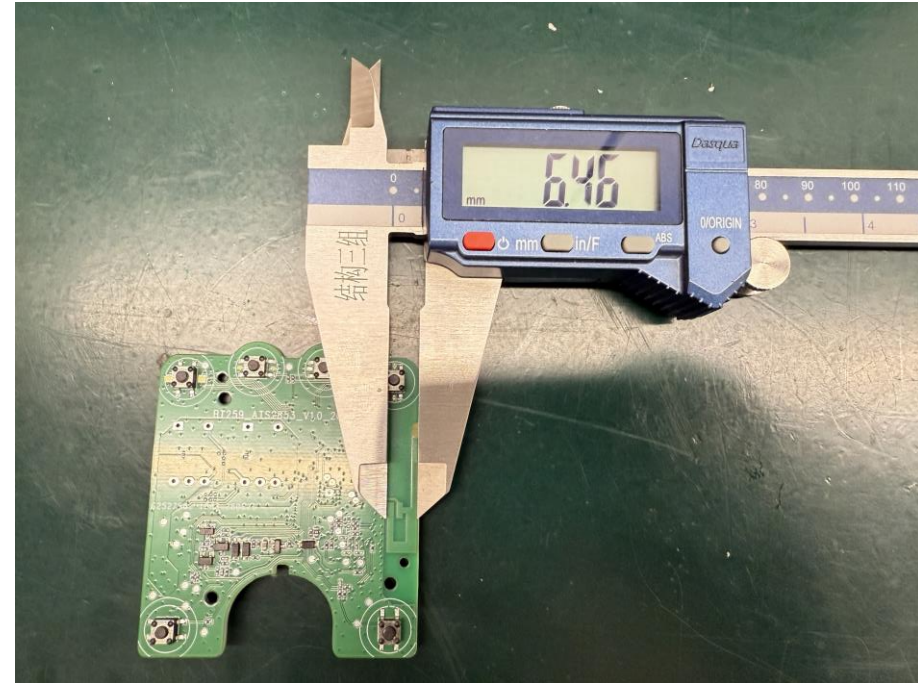
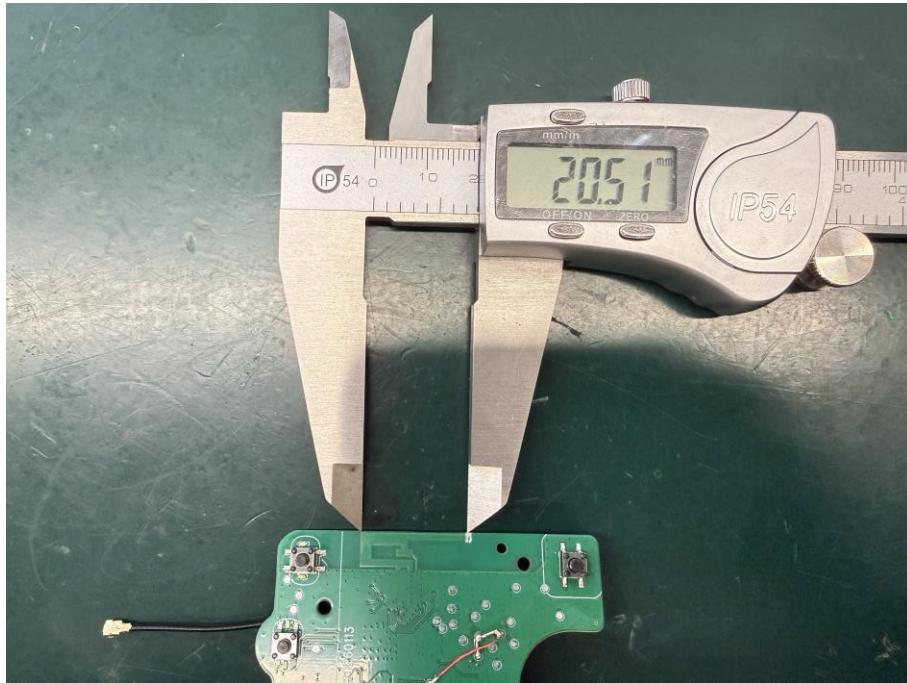


Product Information &Solution

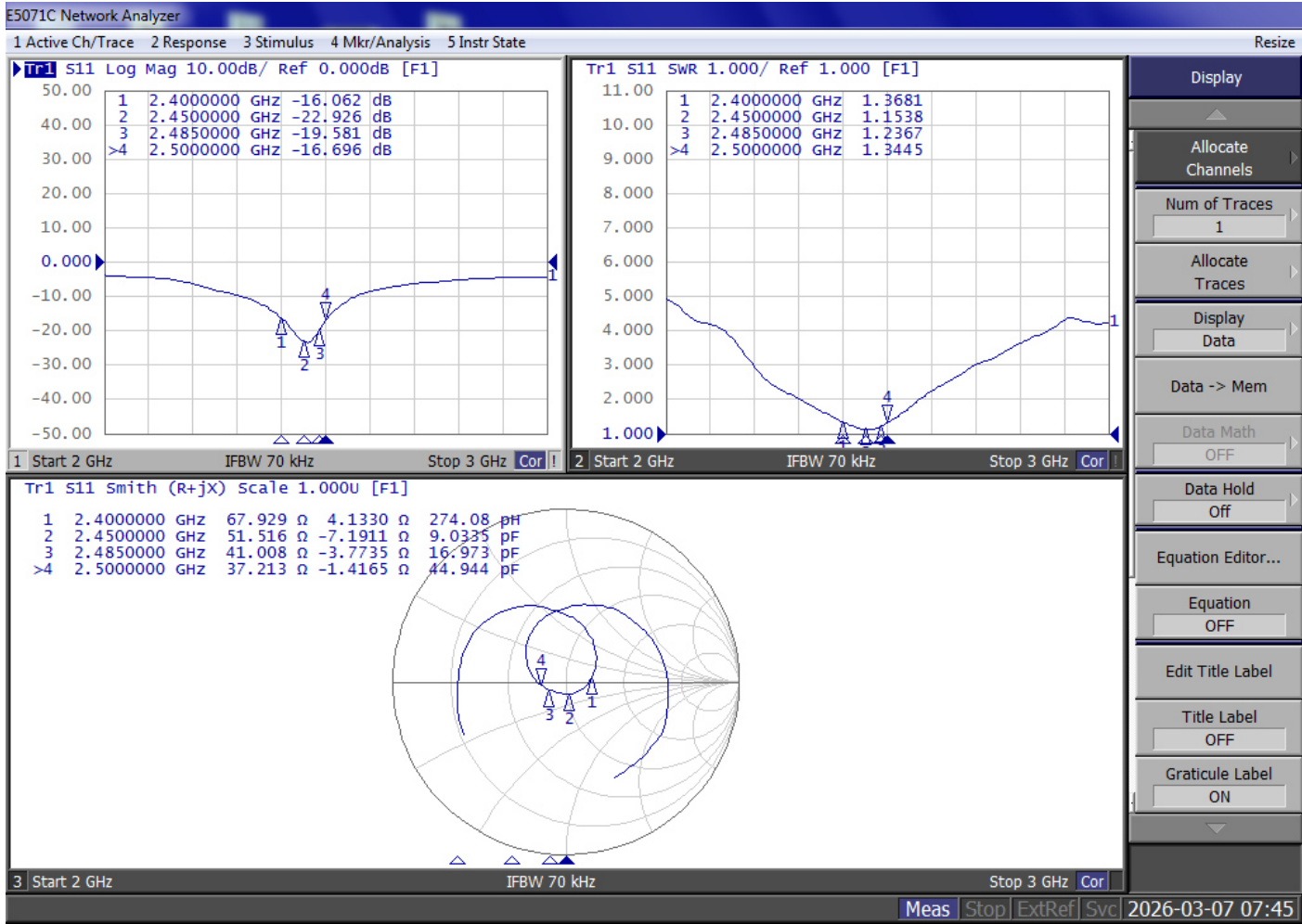
产品名称:	BT259
测试频段:	2.4-2.5GHz



Antenna size

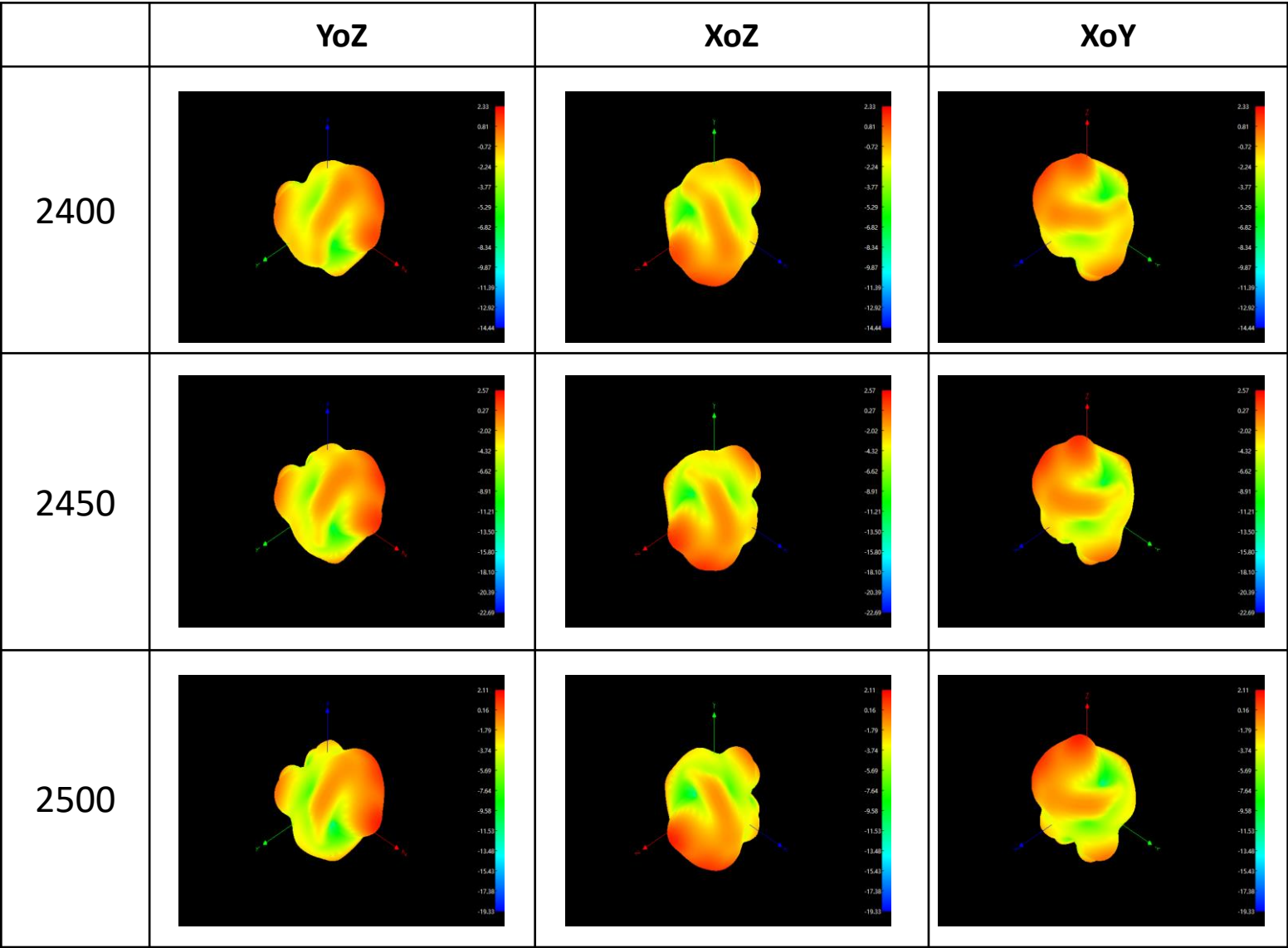


Rough description	BT ANT	Dimensions	20.50mm*6.46mm
Impedance	50Ω	Test environment	None
Freq. Range	2.4-2.5GHz	VSWR	1.92:1
Antenna type	Bluetooth	Polarization	linear
Polar / H	None	Polar / V	None
Maximum Gain	2.72	Maximum Efficiency	56.1%
Connector type	None	Cable type	None
Isolation	None	Special request	None

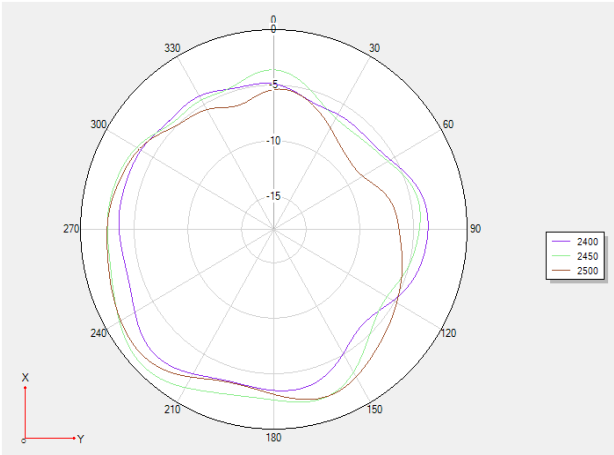
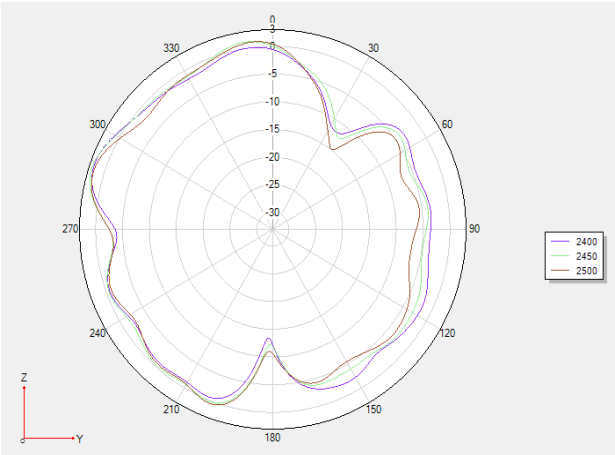
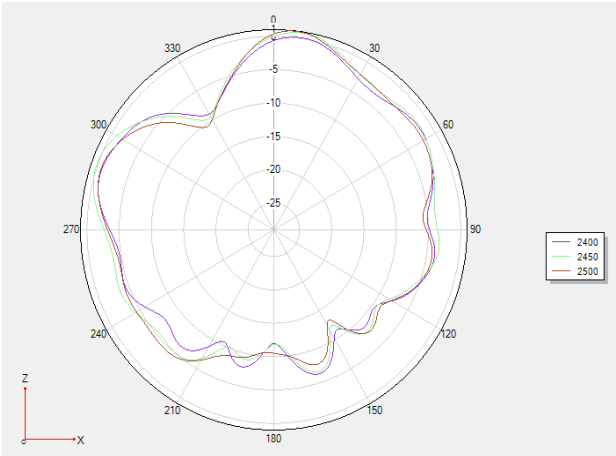


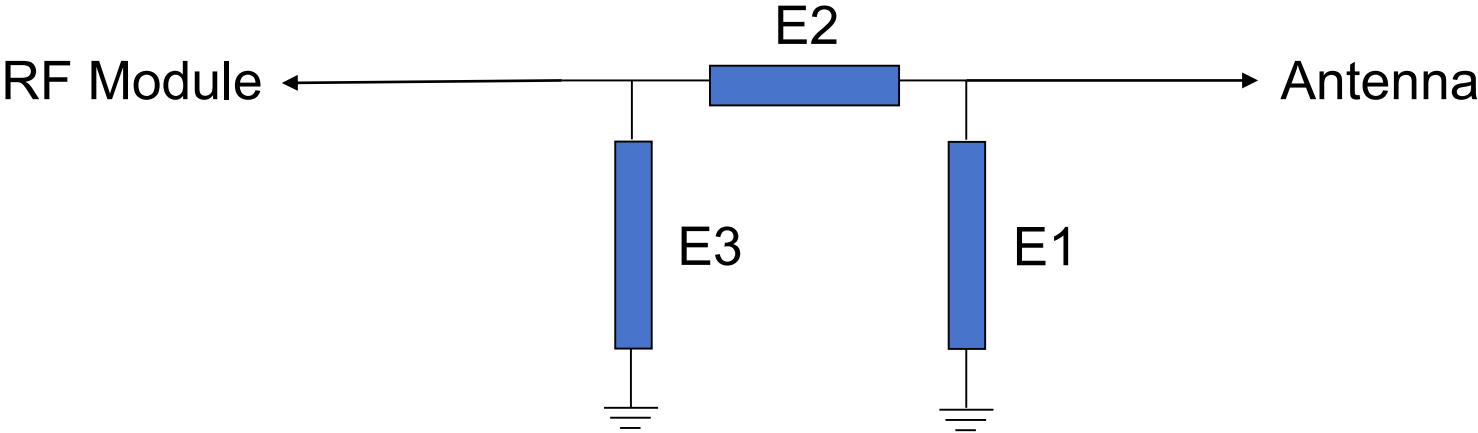
Frequency/Mhz	Efficiency / dB	Efficiency / %	MaxGain/dBi	AvgGain/dBi
2400	-2.88	51.52	2.33	-2.88
2410	-2.93	50.93	2.35	-2.93
2420	-2.58	55.21	2.21	-2.58
2430	-2.68	53.95	2.48	-2.68
2440	-2.51	56.1	2.4	-2.51
2450	-2.62	55.6	2.57	-2.62
2460	-2.67	54.08	2.42	-2.67
2470	-2.65	54.33	2.72	-2.65
2480	-2.73	53.33	2.39	-2.73
2490	-2.76	52.97	2.49	-2.76
2500	-2.71	53.58	2.11	-2.71

3D Radiation Pattern Results (unit: dBi)



2D Radiation Pattern Results (unit: dB)





Element	Value
E1	4.7nH
E2	0Ω
E3	NC

- Average efficiency 53.50%, Meet preset standards。

Item	
Max gain	2.72dBi
Polarization	Linear—Polarized Antenna
Impedance	50Ω
Antenna Size	20.50mm*6.46mm
Antenna Type	PCB Antenna

