

	Date06/25/2026	Version No.V1.0
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Shenzhen Rongshengyuan Technology Co., Ltd

PRODUCTSPECIFICATION

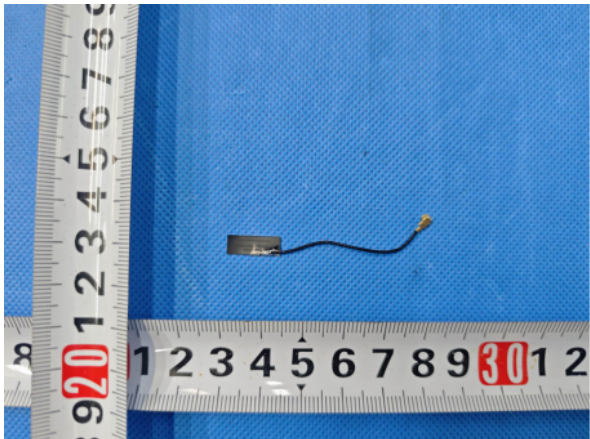
Customer	M5Stack Technology Co., Ltd
Customer’s partnumber	
Product MaterialCode	RSY-Dual E8008
Working Band	2400-5000MHz
IssueDate	2026-06-25
Release Version	V1.0
Author	

1 PRODUCT TECHNICAL SPECIFICATION

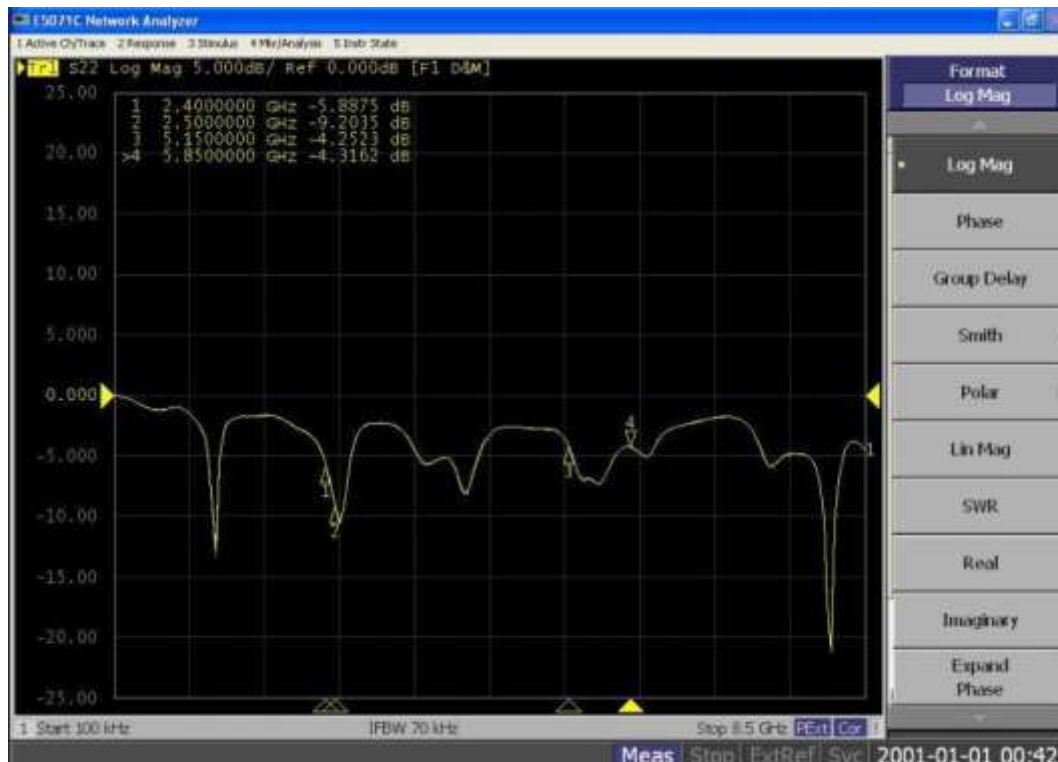
Electrical Specifications	
Frequency Range (MHz)	2400-5000
Bandwidth (MHz)	100
Input Impendence (Ω)	50
VSWR	<2
Gain (dBi)	2.23
Polarization Type	Vertical
Mechanical Specifications	
Antenna Length (mm)	14.3mm*5.3mm
Antenna Type	FPC Antenna
Operatin Temp (℃)	-30~70
Storing Temp(℃)	-30~70

2 PRODUCT ELECTRICAL PERFORMANCE PARAMETER

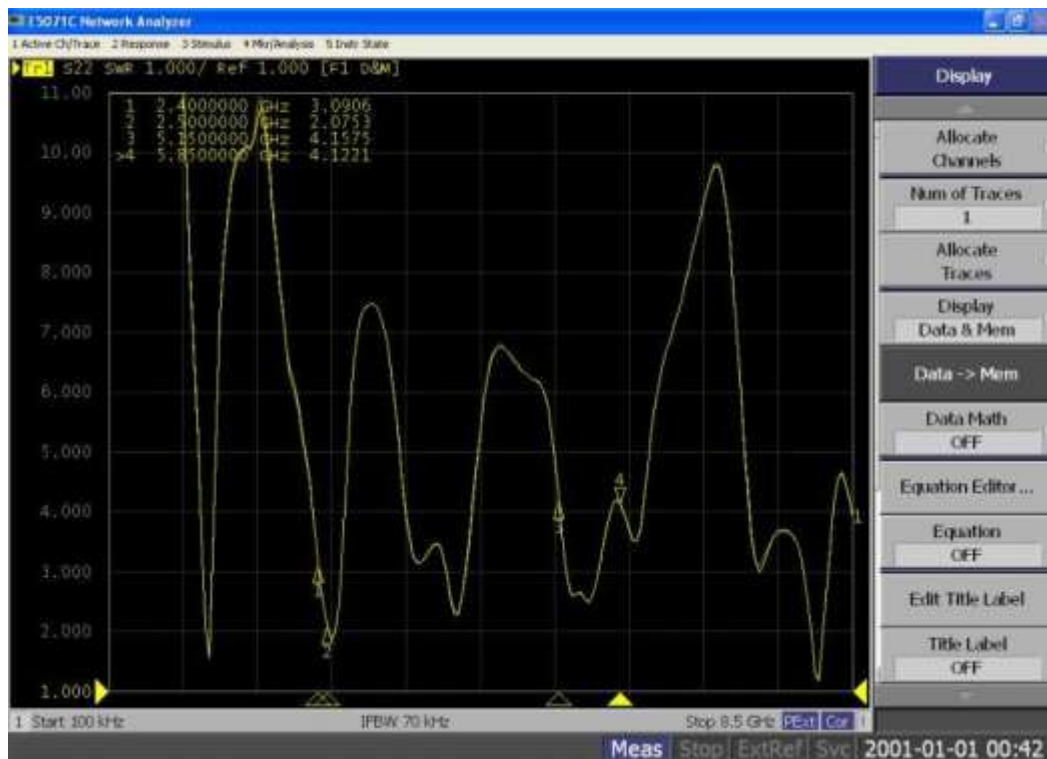
1. Product picture



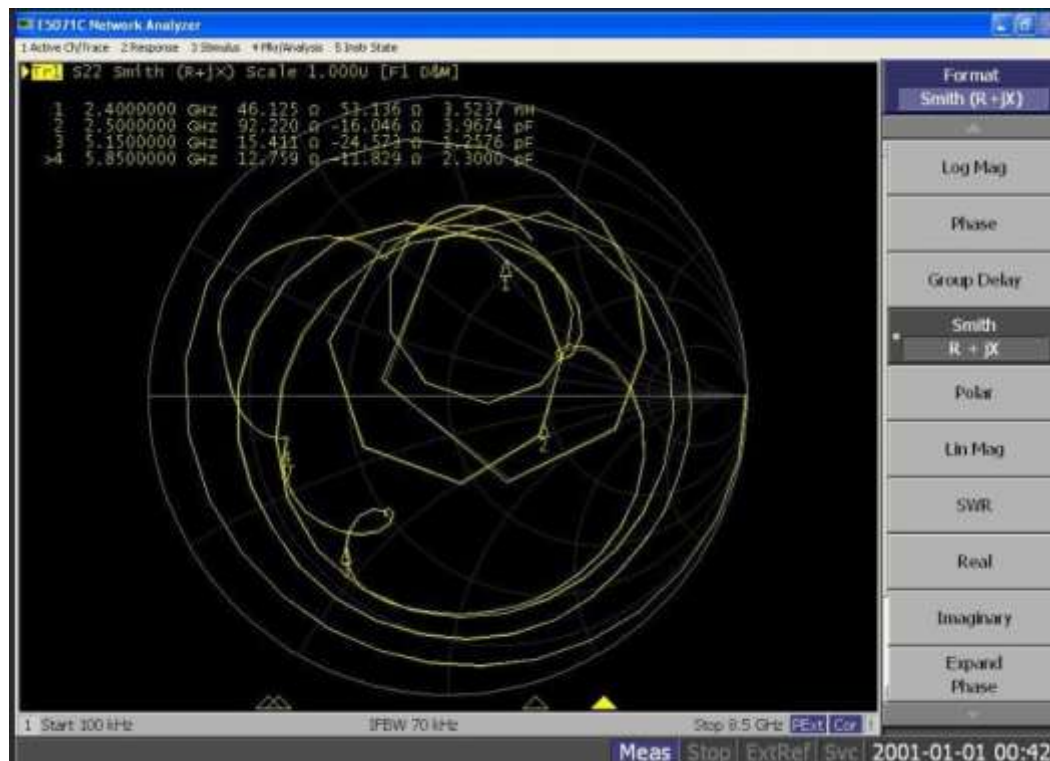
2.2 S11



2.3 VSWR



2.4 Smith Chart



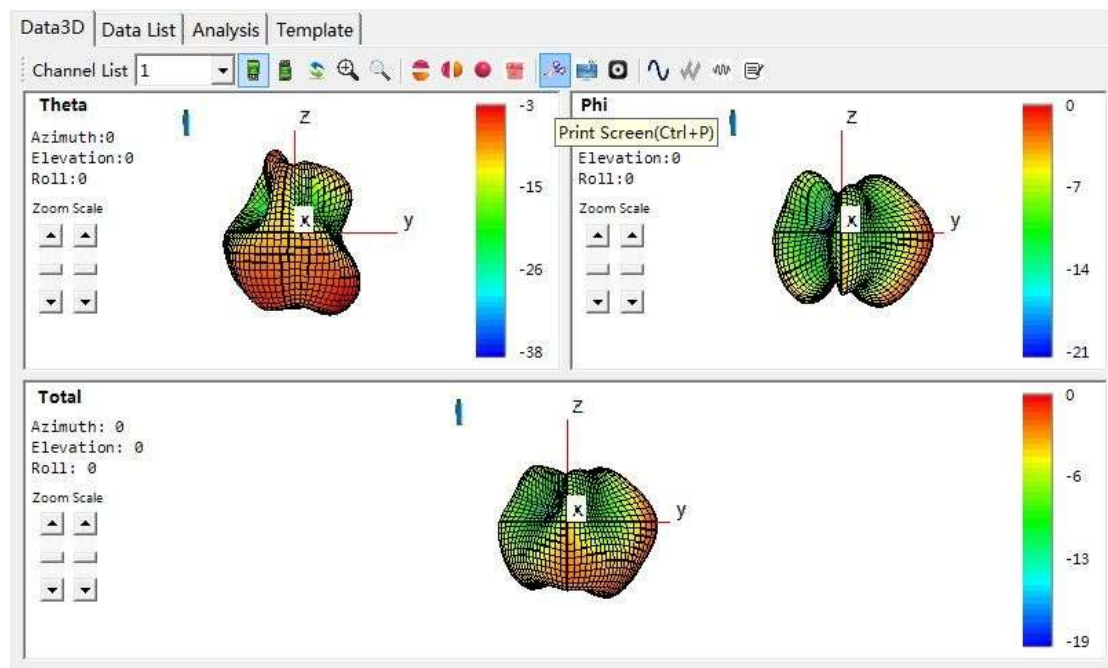
2.5 Efficiency/Gain

Freq	Gain	Efficiency_dB	Efficiency_Pcent
2410	0.56	-6.19	24.03
2430	0.32	-6.49	22.43
2450	1.10	-5.78	26.42
2470	1.76	-5.51	28.12
2490	2.23	-5.07	31.14
5150	-2.01	-8.15	15.30
5200	-1.45	-8.59	13.83
5250	-1.75	-9.20	12.01
5300	-2.75	-9.07	12.39
5350	-1.41	-8.64	13.69
5400	-1.03	-7.92	16.16
5450	-1.79	-7.70	16.99
5500	-3.37	-8.14	15.35
5550	-1.67	-7.86	16.36
5600	-2.34	-8.26	14.92
5650	-1.60	-7.68	17.05
5700	-1.80	-7.26	18.78
5750	-2.10	-8.01	15.83
5800	-1.99	-7.28	18.71
5850	-1.44	-6.74	21.18

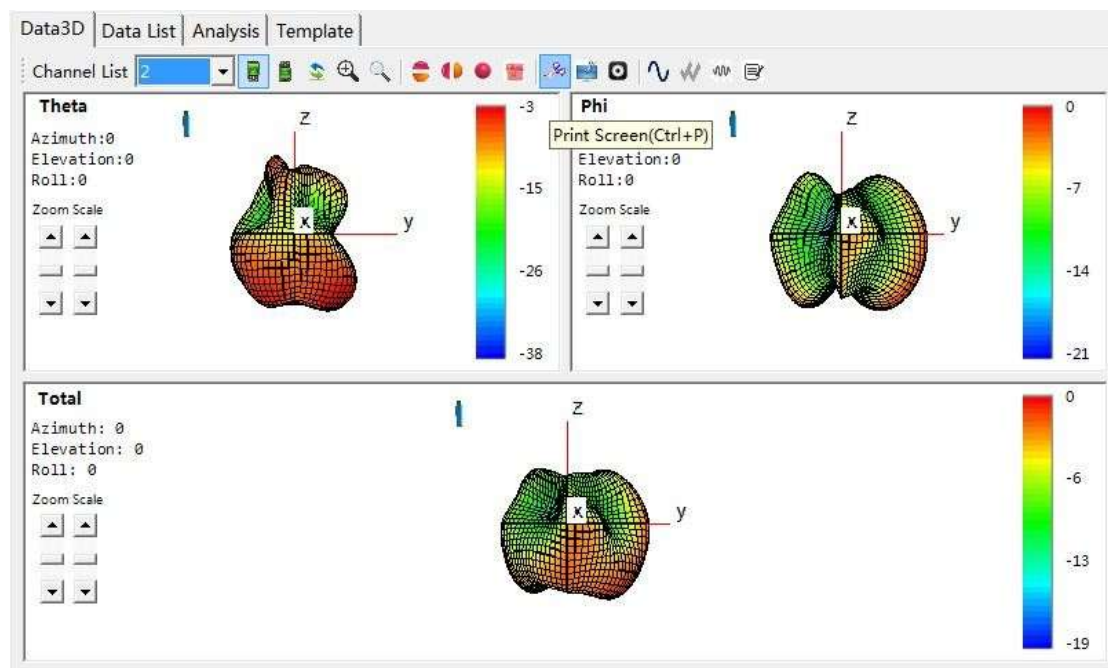
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2.6 Radiation Pattern

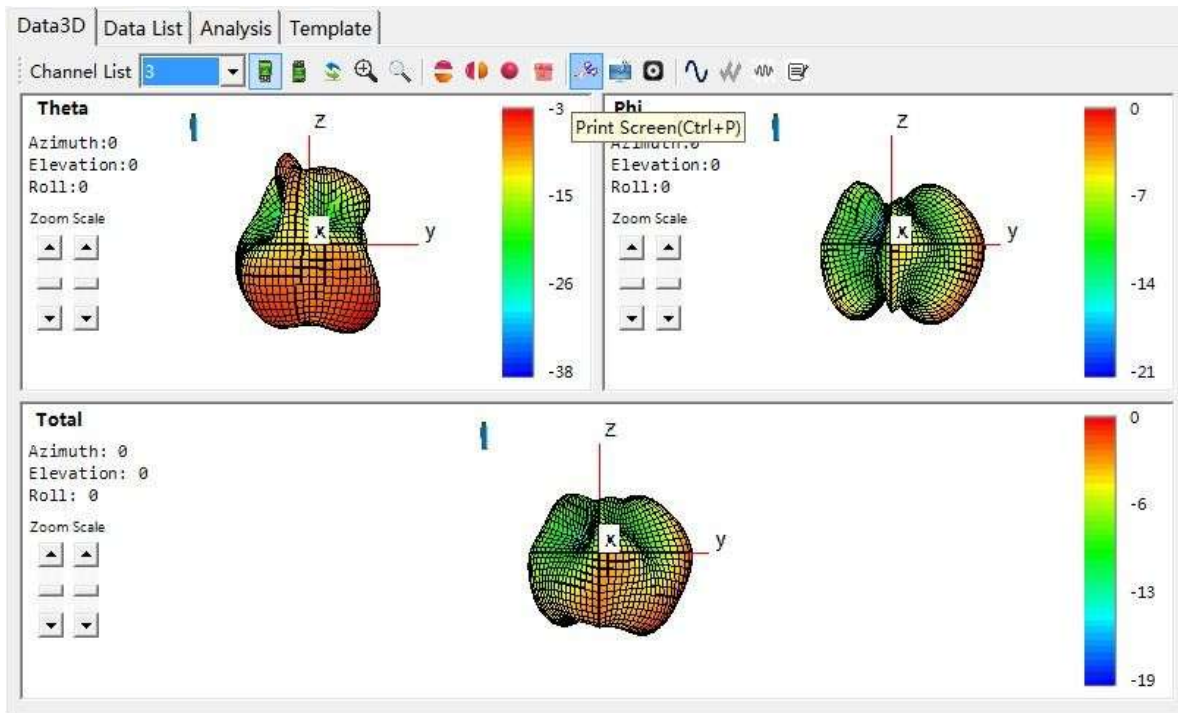
2400MHz



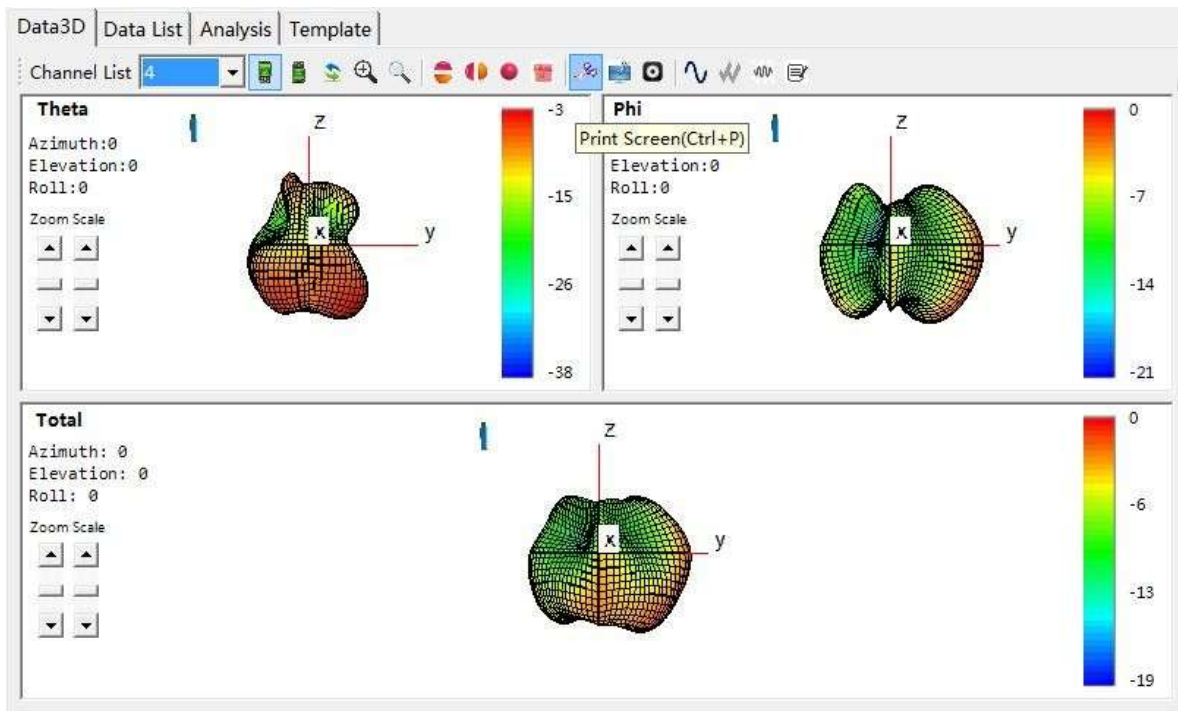
2410MHz



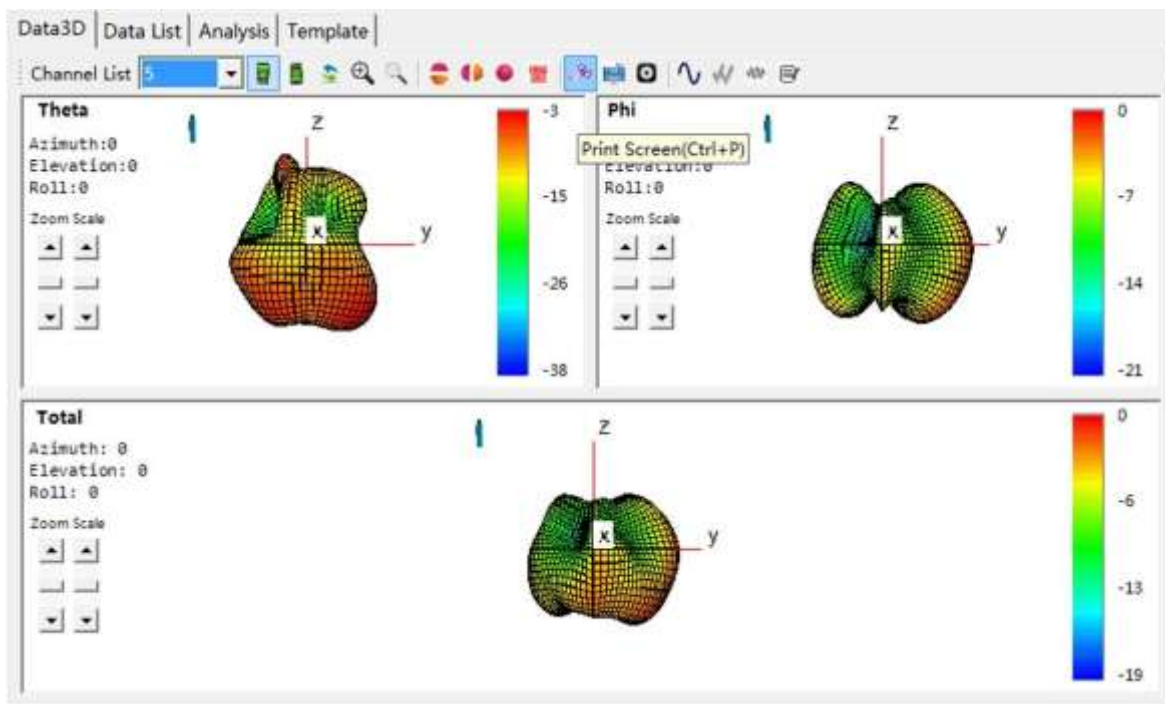
2430MHz



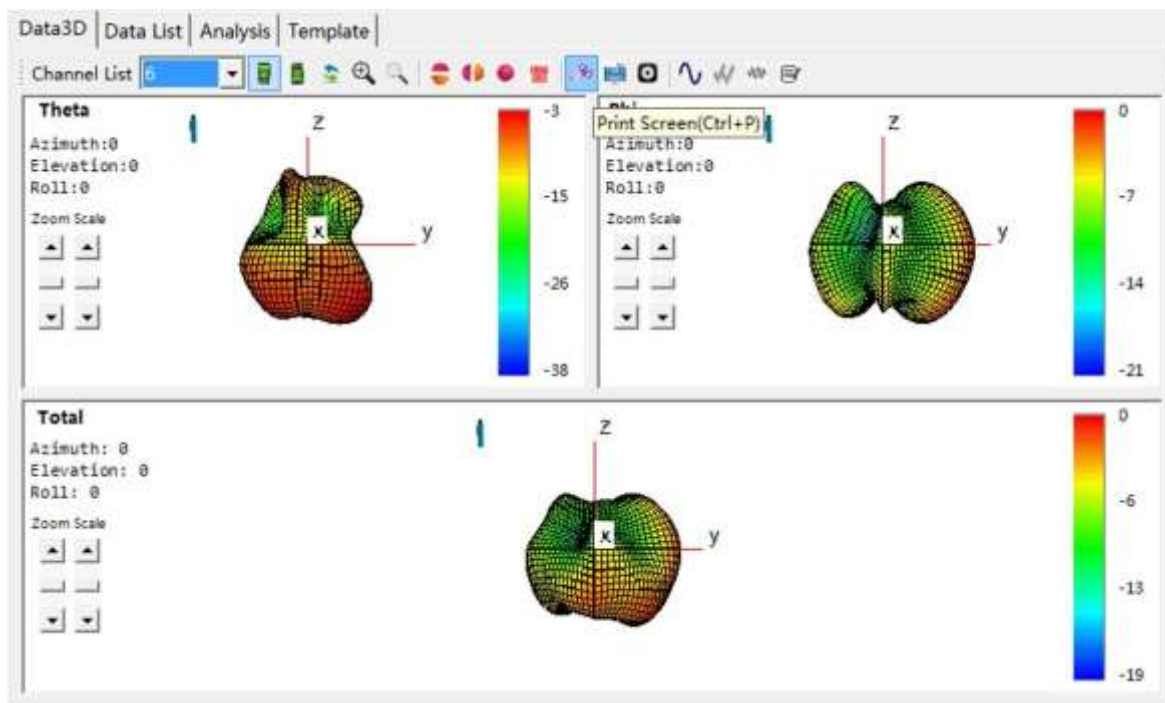
2440MHz



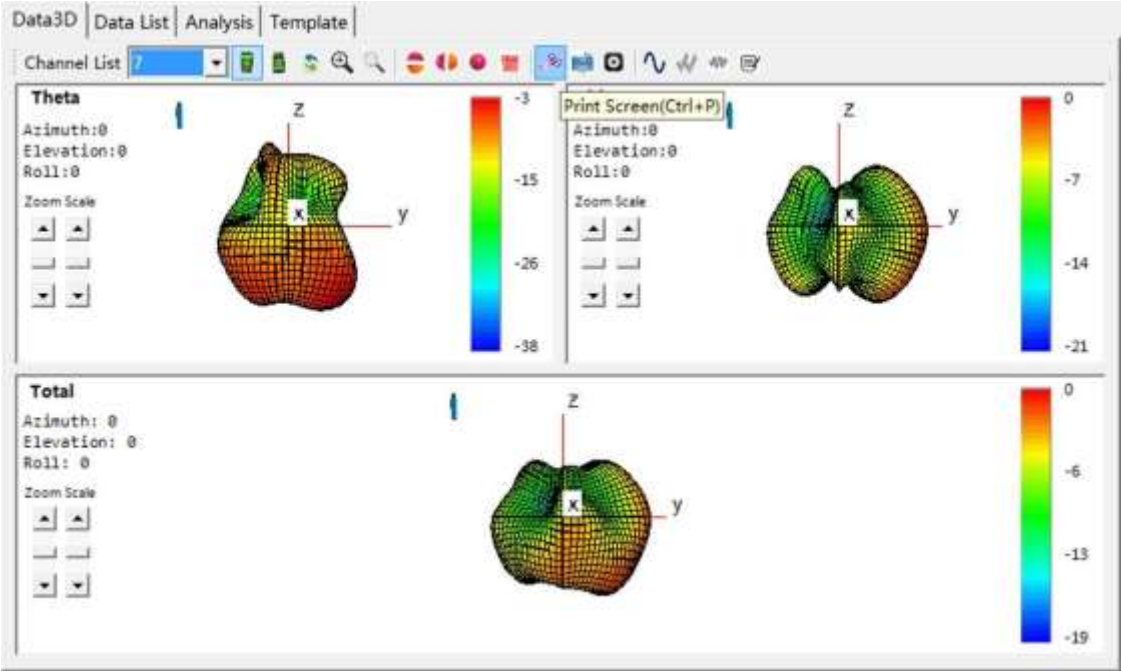
2450MHz



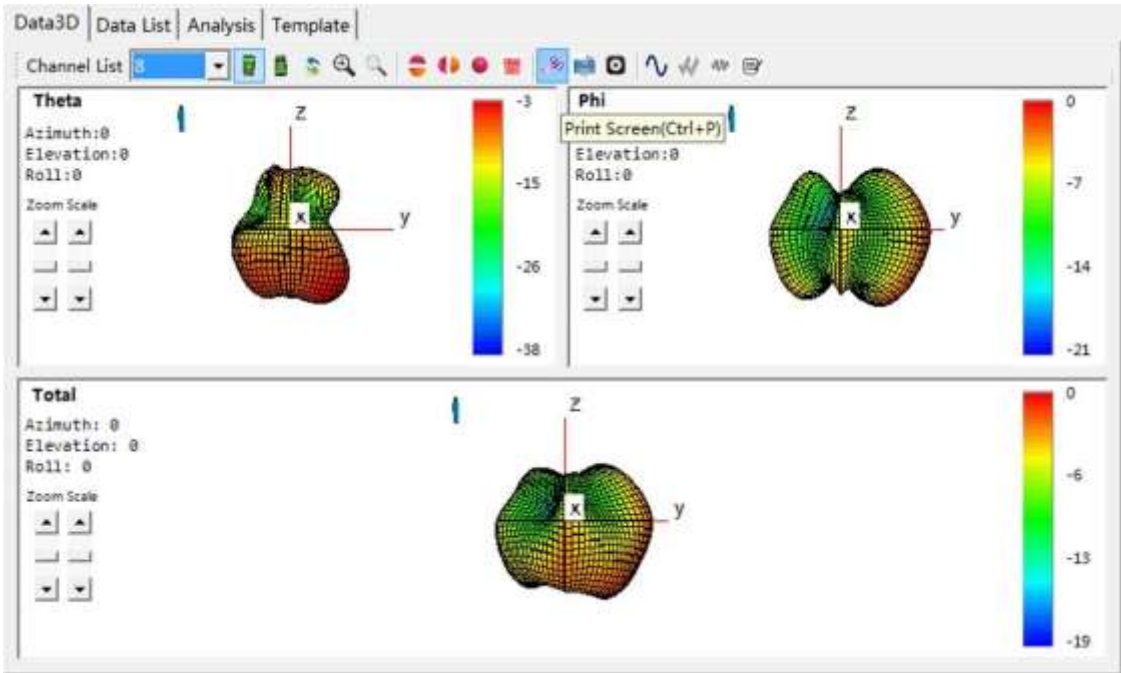
2460MHz



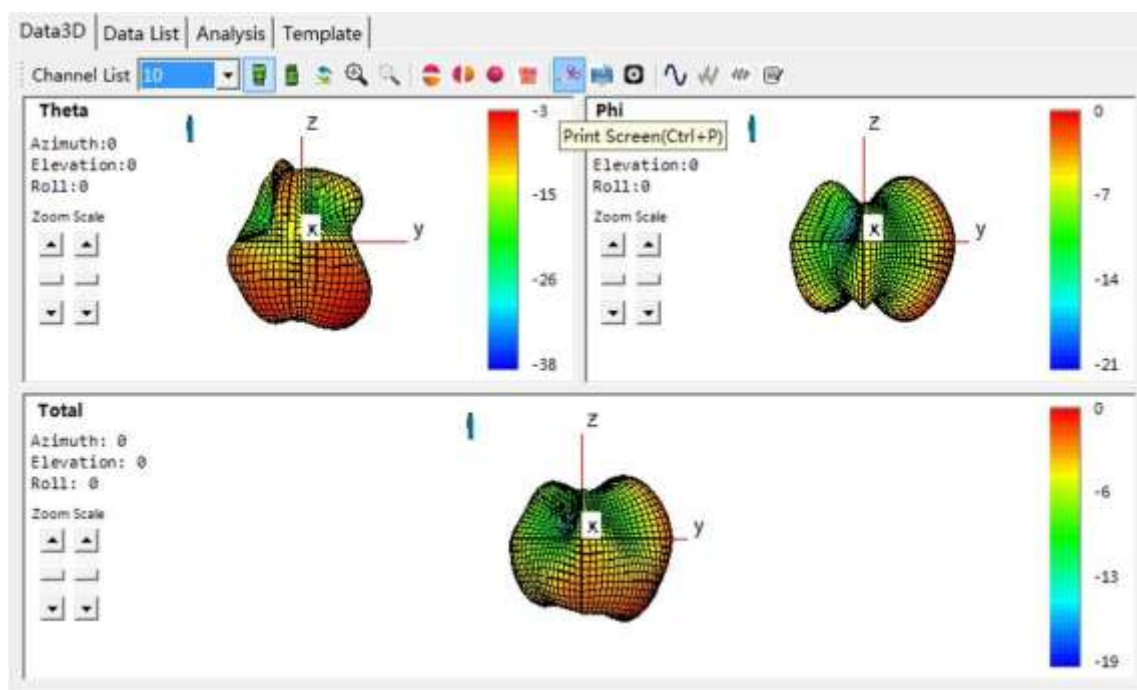
2470MHz



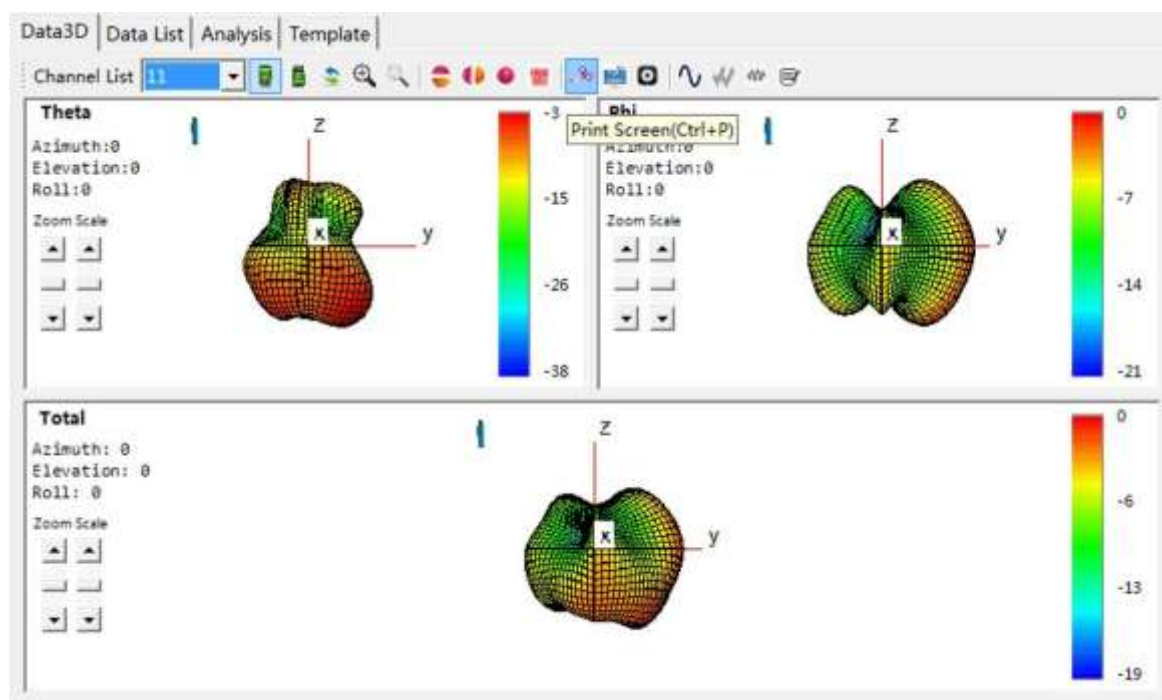
2480MHz



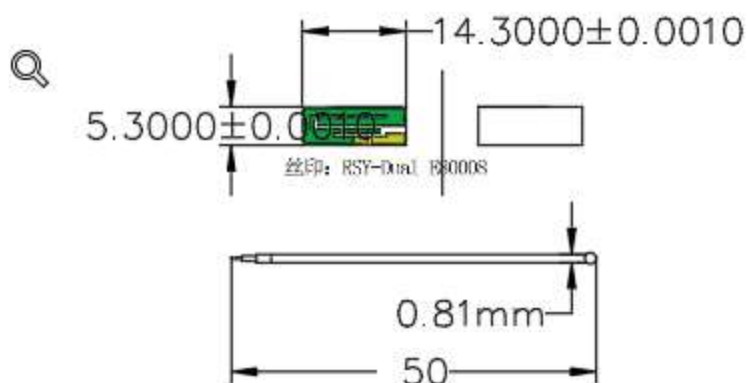
2490MHz



2500MHz



3 Product dimensions



U注:

1. “*” 尺寸为重点管控尺寸。
2. 未注尺寸以图形为准，未注公差参考公差表，
3. 所有产品均需满足客户样可靠性测试，
4. 外形冲切平顺，不可伤到内部线路，铜箔走线公差 ± 0.05 以内。
5. 金手指06P 电解制
6. 半切出货
7. 单面面板，金手指通孔正反面金手指导通，一对半
8. 丝印白色 “RSY-D111 E80008

Unit : mm