



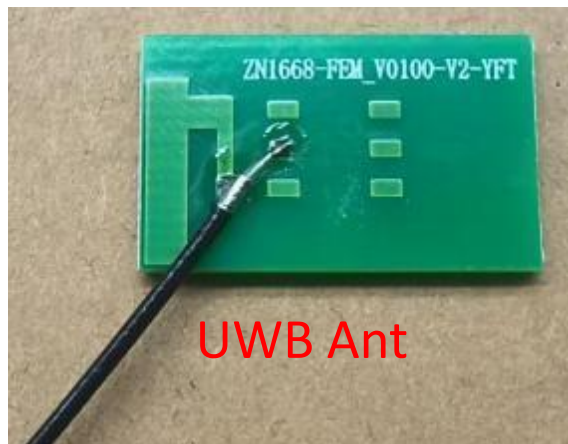
MSU1668 Antenna Specification Document

Project name :	MSU1668 Ant	Frequency range :	6.24GHz-6.74Ghz		
Internal Part Number:	/	Version number :	A.1		
Date :	2026/01/17				
Futen Technology (Shanghai) Co., Ltd.					
Audit	RF	Frank wu		RF	Frank wu
	ME	Zhang Liuyang			ME
	QE	Gao Yu	Design		
	Sales	Wang Qiao			
Date :	2026-01-17				
Affirm	RF				
	ME				
Remarks					

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1. Project Image



Ant Picture

2. Antenna Specifications

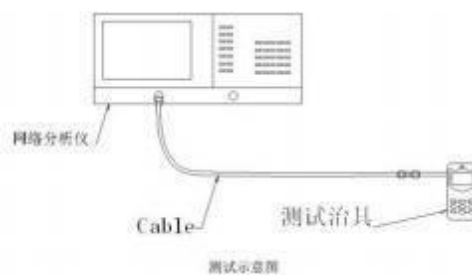
UWB antenna	Specification
Working Frequency Range	CH5:6.24Ghz-6.74Ghz
Working Frequency	
Bandwidth	>500MHz
Impedance	50Ω
Gain (dBi)	2.18
Standing Wave Ratio (VSWR)	<1.6
Working Temperature	-40°C~+85°C
Power Capacity	5W

3. Matching Circuit

NO Matching

4. S11 Test

4.0 S11 Testing Method

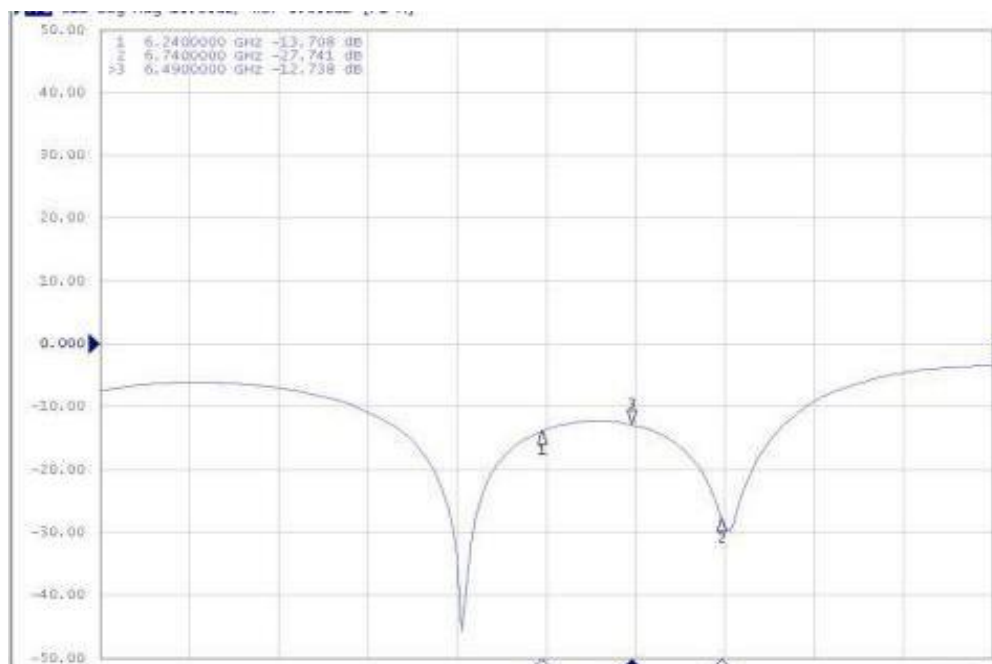


4.1 S11 Parameters

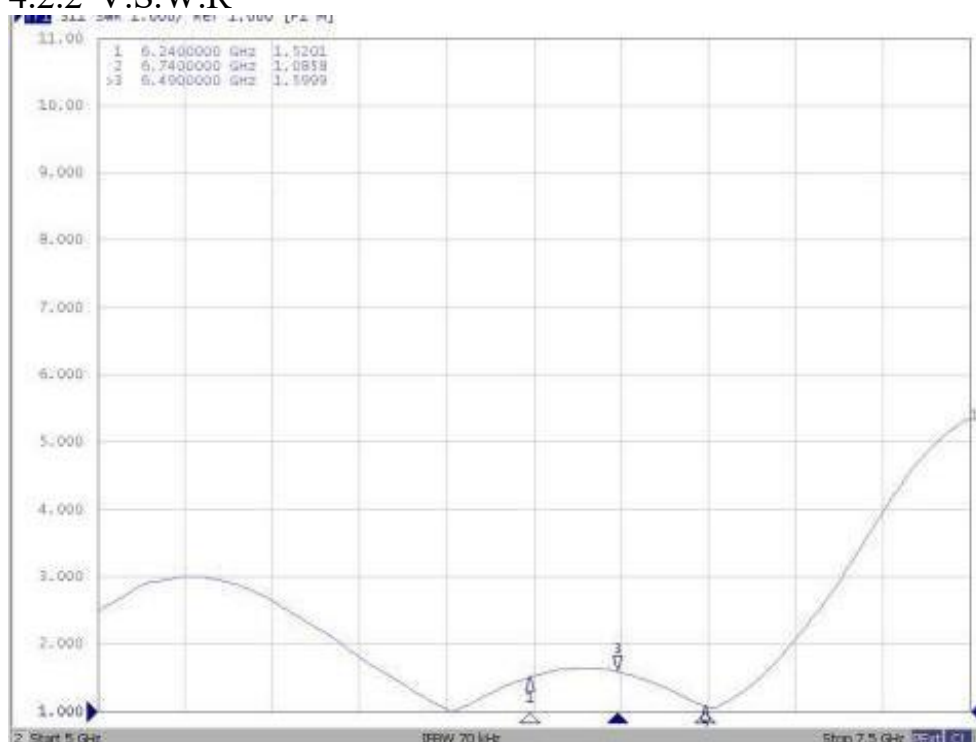
Frequency (MHZ)	6240	6540	6740
VSWR	1.52	1.59	1.08
RL	-13.7	-12.73	-27.74

4.2 Parameter Image

4.2.1 Return loss



4.2.2 V.S.W.R



5. Darkroom Test Data

5.0 Testing equipment

Testing System: Shielded Chamber

Test Environment: Temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, Humidity $50\% \pm 15\%$

Testing equipment: For testing passive data, use the Agilent E5071C network analyzer.

5.1 Active Data

NG

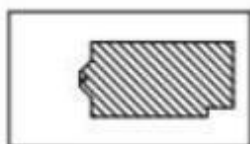
5.2 Passive Data

Passive Test For UWB(CH5)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
6240	61.37	-2.12	2.08
6290	57.49	-2.4	2.18
6340	47.07	-3.27	1.26
6390	56.61	-2.47	2.01
6440	60.22	-2.2	1.64
6490	58.56	-2.32	1.37
6540	58.05	-2.36	1.87
6590	55.64	-2.55	1.94
6640	47.86	-3.2	1.34
6690	48.62	-3.13	1.95
6740	46.25	-3.35	1.45

6. Grounding Treatment for the Prototype

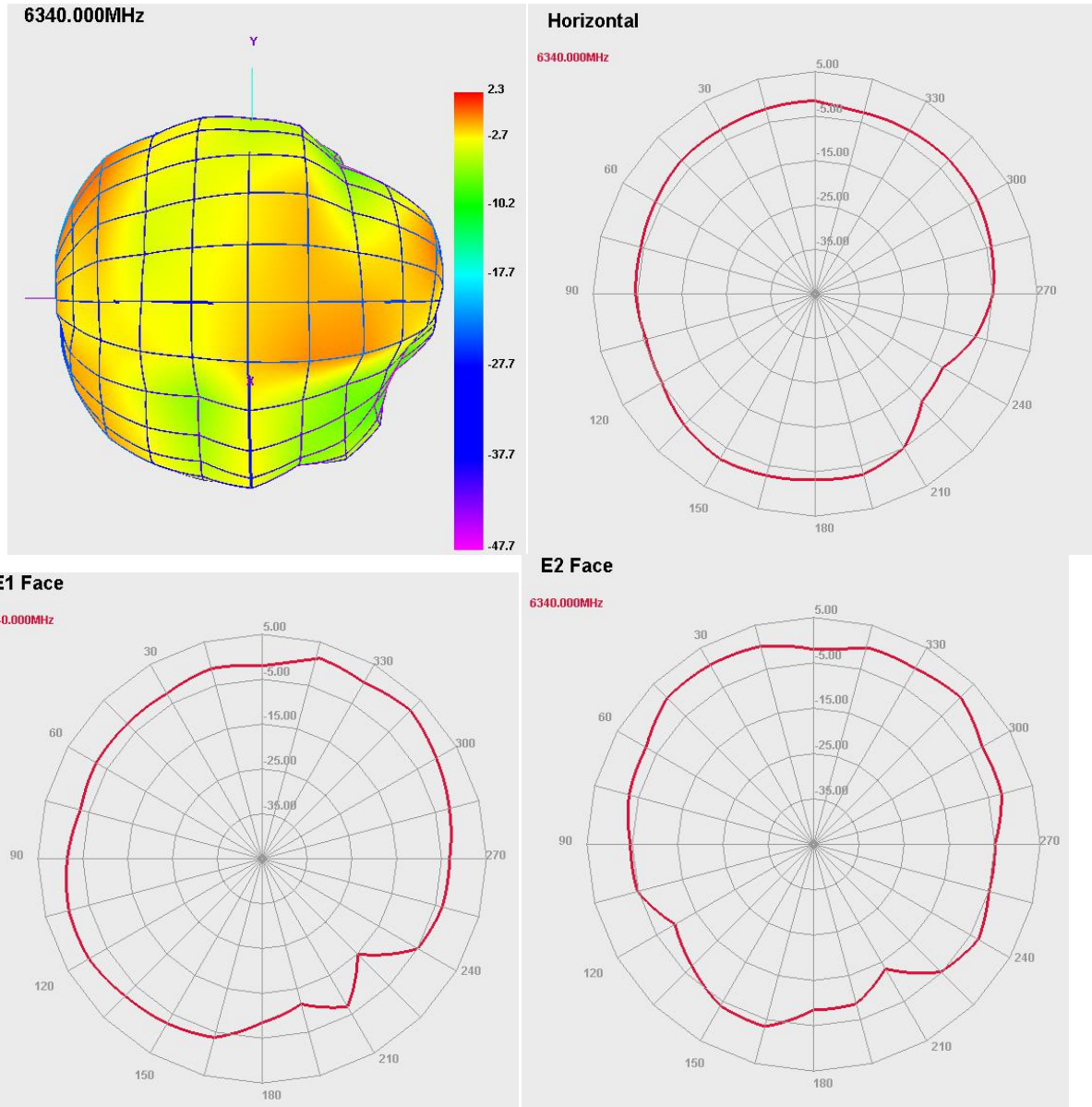
No processing

7. Antenna Diagram

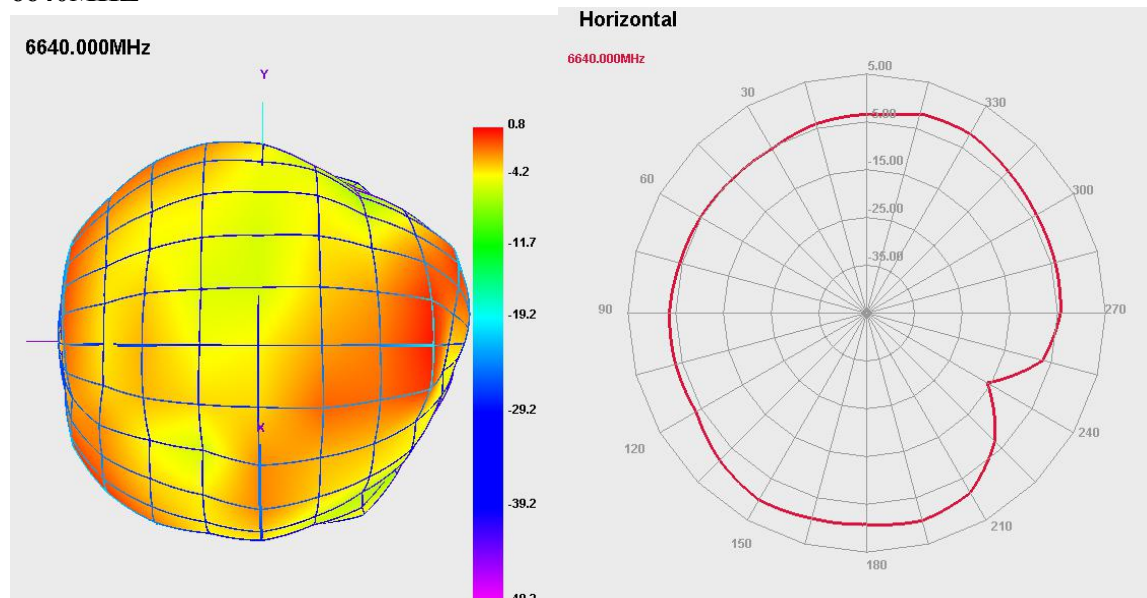
[illegible]

8. Radiation Pattern (3D/2D)

6340MHZ

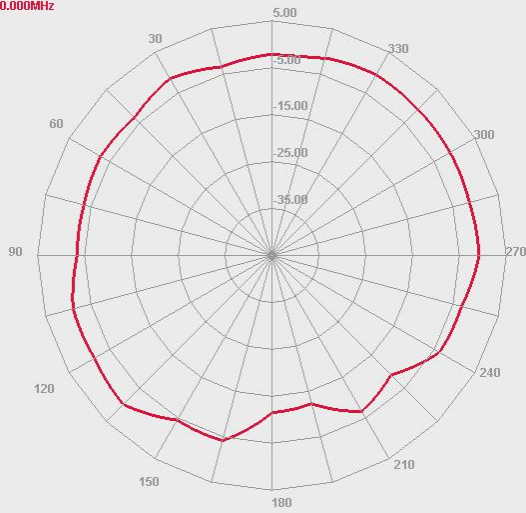


6640MHZ



E1 Face

6640.000MHz



E2 Face

6640.000MHz

