

ANTENNA SPECIFICATION

Project:	CH6370B-ANT1
Version:	V1.0
Issued Date:	2025.08.19
Tested by:	Lite.Mo
Check by:	Xun.Li
Manufacturer:	Sunitec Enterprise Co., LTD.

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1.Revision History

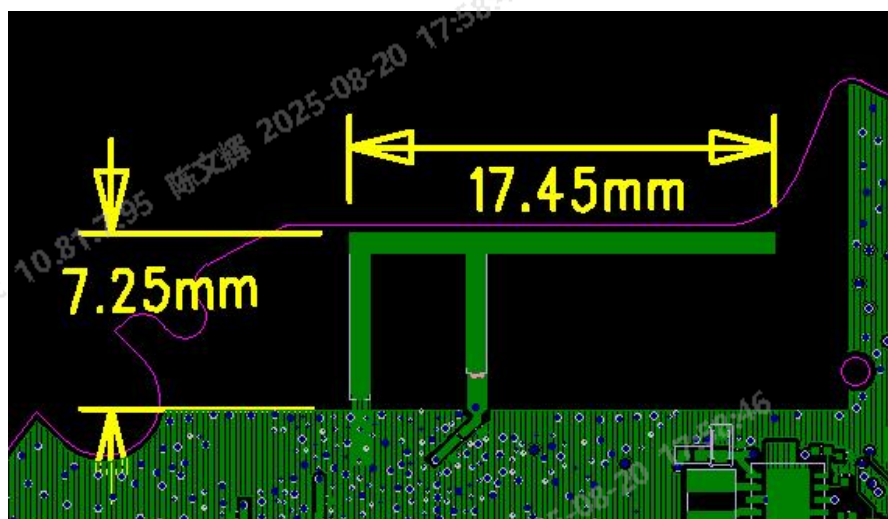
Rev.No	Issued Date	Description	Summary
V1.0	2025.08.19	initial release	

2. Introduction

2.1 Introduction of Product

This product is a Bluetooth antenna with Layout on PCB

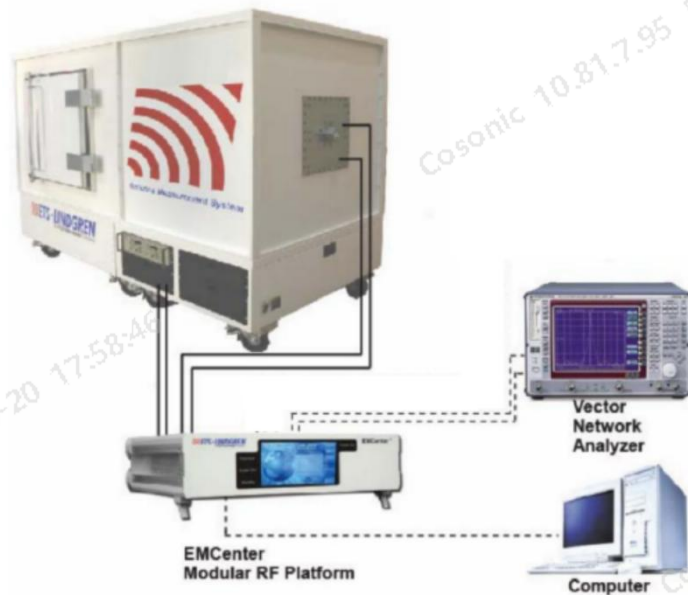
2.2 Dimension



3. Electrical Characteristics

3.1 Test equipment:

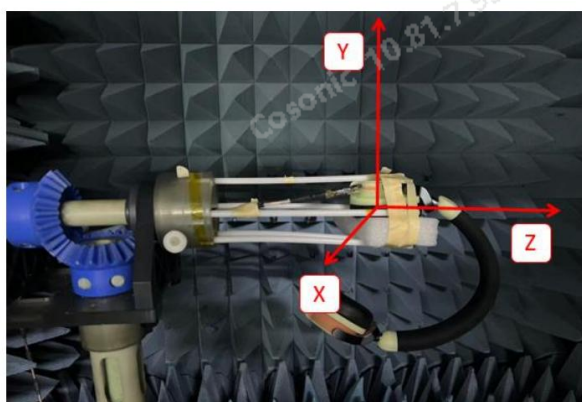
Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
VECTOR NETWORK ANALYZER	Agilent	E5071C		2024.10.23	2025.10.22
Antenna Measurement System	ETS-Lindgren	AMS-8050		2024.10.23	2025.10.22
	ETS-Lindgren	EMCenter Modular RF Platform		2024.10.23	2025.10.22



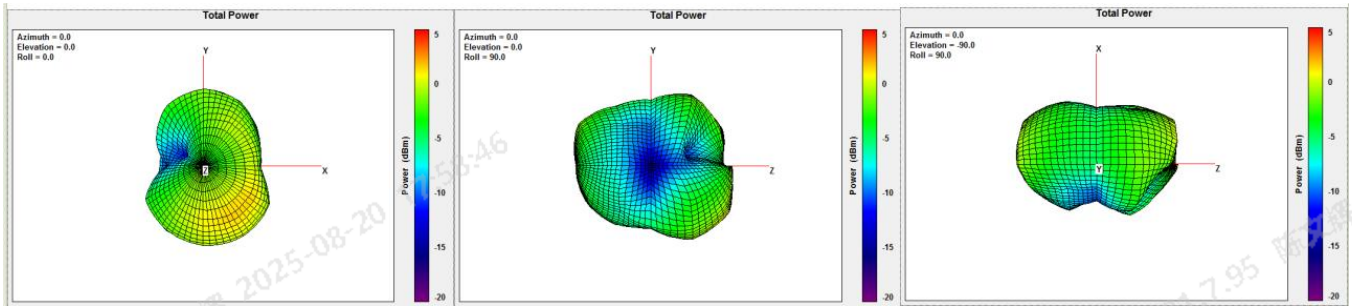
3.2 Antenna S11 parameters



3.3 Antenna Test Settings:



3.4 3D Radiation Pattern :



3.5 Electrical Characteristics:

Antenna type	PCB Layout Antenna
Working Frequency Range	2450 ± 50MHz
Impedance	50Ω
VSWR	<2
Max Efficiency(%)	48.7%@2430MHz
Max peak Gain(dBi)	2.38dBi@2420MHz
Polarization	Linear

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-3.80	43.1	1.38
2410	-3.66	46.1	2.08
2420	-3.36	48.6	2.38
2430	-3.13	48.7	2.07
2440	-3.12	48.4	1.73
2450	-3.15	48.5	1.97
2460	-3.14	47.3	2.34
2470	-3.25	46.1	2.32
2480	-3.36	45.2	2.01