

Antenna HCM010S Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2023-08-09	Damon Zhang	Creation of the document
1.0	2023-08-09	Damon Zhang	First official release

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1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for

custom antenna solutions to meet your specific application needs.

2 Product Features

- BT
- High efficiency
- Excellent performance

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3 Product Specifications

Passive Electrical Specifications		
Frequency Range	Bluetooth: 2400-2500 MHz	
Input Impedance	50 Ω	
VSWR	≤ 4	
Gain	≤ -1.8 dBi	
Polarization Type	Linear	
Mechanical Specifications		
Antenna Size(mm)	15.1 * 5.5	
Material	FR4	
Color	White	
Working Temperature	-40 °C to +105 °C	

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4 Overall Performance

4.1. Test Environment

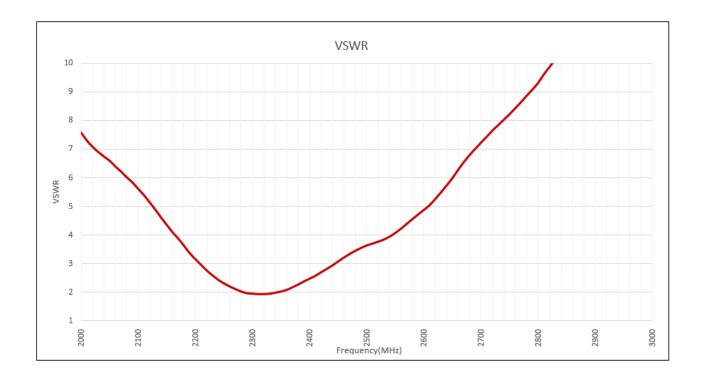
- KEYSIGHT ENA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 600 MHz 8.5 GHz



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4.2. **VSWR**



Frequency (MHz)	2400	2500
VSWR	2.5	3.6

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4.3. Efficiency

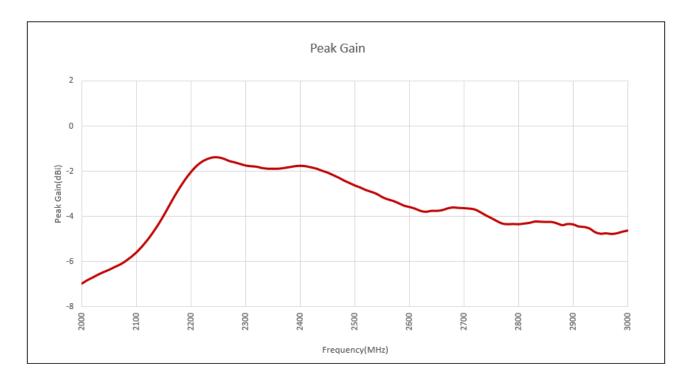


Frequency (MHz)	2400	2500
Efficiency (%)	36.4	29.5

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4.4. Gain

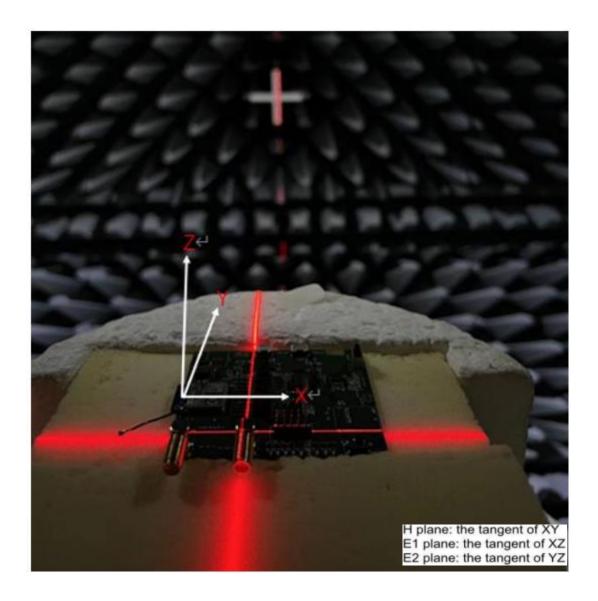


Frequency (MHz)	2400	2500
Gain (dBi)	-1.8	-2.6

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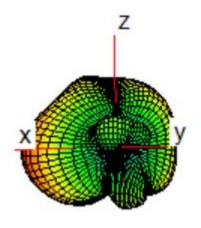
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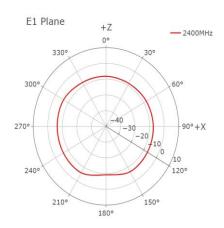


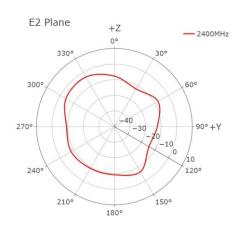
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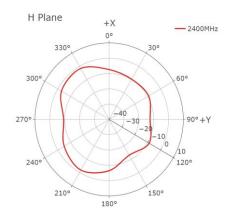


2400MHz

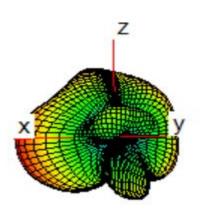


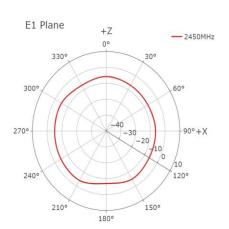






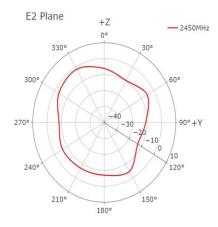
2450MHz

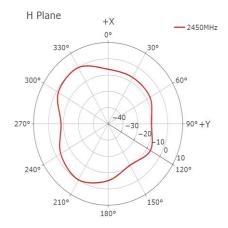




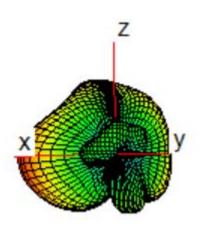
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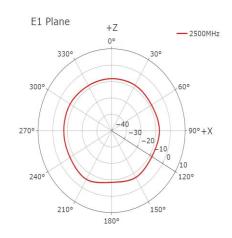


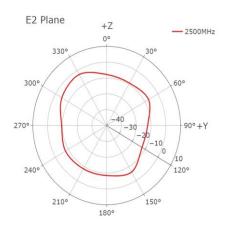


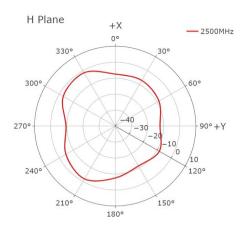


2500MHz





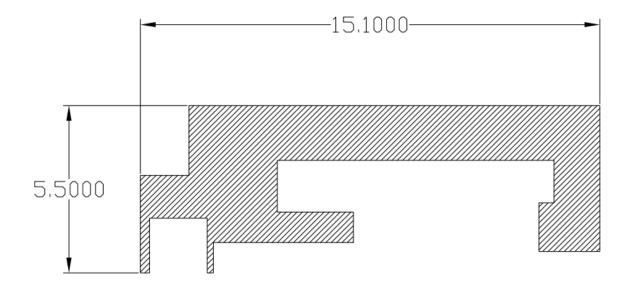




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5 Product Size (mm)



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