

# Antenna FLM163D Datasheet

#### **Antenna Services**

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# **About the Document**

# **Revision History**

Version	Date	Author	Note
-	2024-06-25	Damon.Zhang	Creation of the document
1.0	2024-06-25	Damon.Zhang	First official release

## QUECTEL

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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

- WIFI/BT
- High efficiency
- Excellent performance



## **3** Product Specifications

Passive Electrical Specifications		
Frequency Range	2400–2500 MHz	
Input Impedance	50 Ω	
VSWR	≤2	
Gain	≤ -1.85 dBi	
Polarization Type	Linear	
Mechanical Specifications		
Antenna Size(mm)	15× 5	
Material	FR4	
Color	Green	
Working Temperature	-40 °C to +85 °C	



## 4 Overall Performance

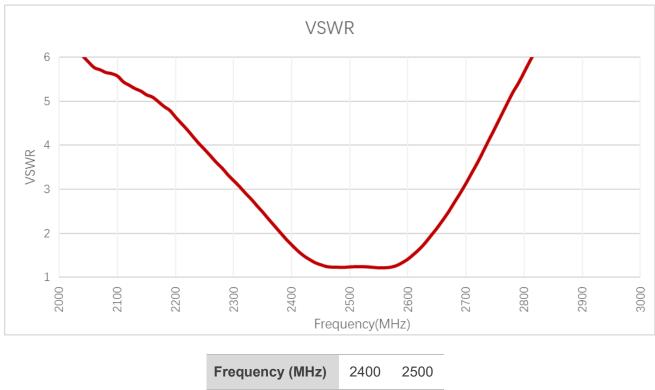
## 4.1. Test Environment

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





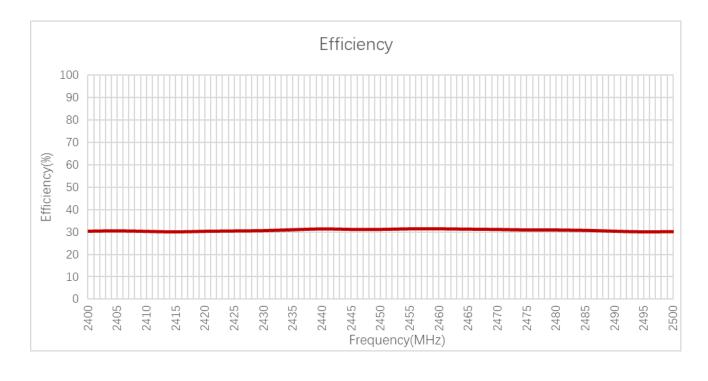
#### 4.2. VSWR



VSWR	1.73	1.24



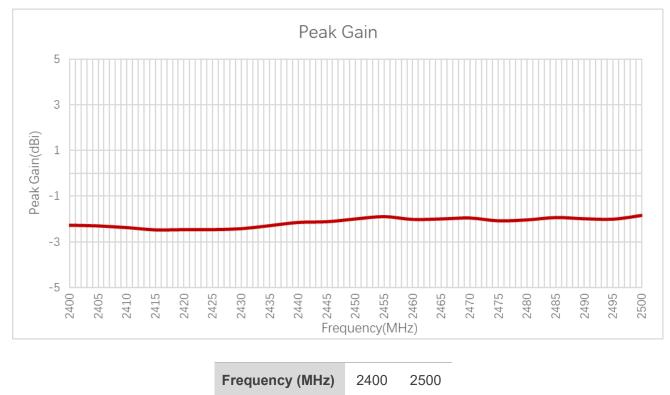
#### 4.3. Efficiency



Frequency (MHz)	2400	2500
Efficiency (%)	30.45	30.28



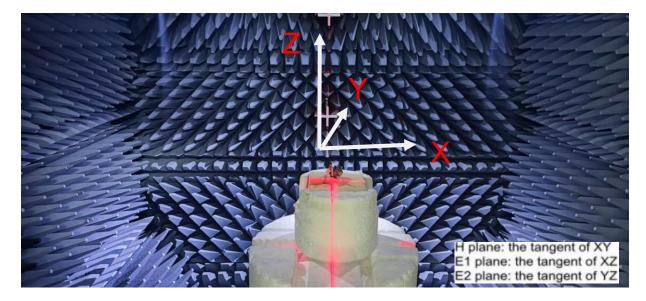
#### 4.4. Gain



Gain (dBi)	-2.27	-1.85

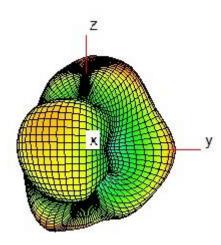


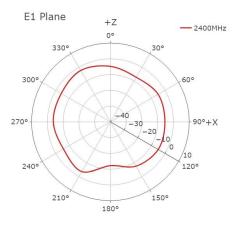
#### 4.5. Radiation Pattern

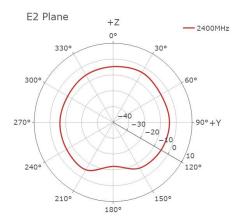


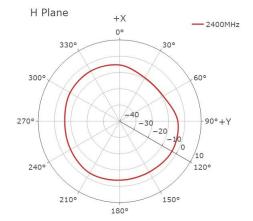


#### 2400MHz

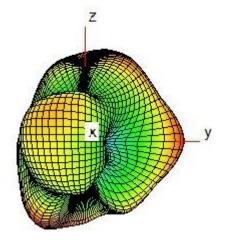


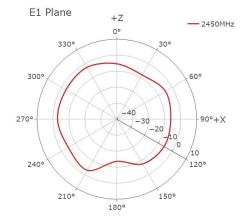




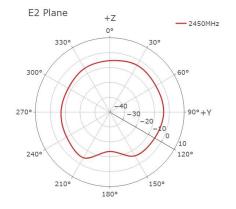


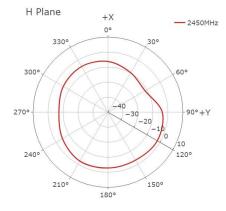




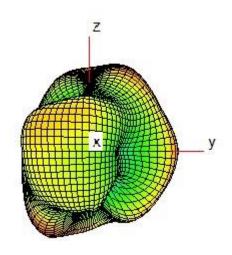


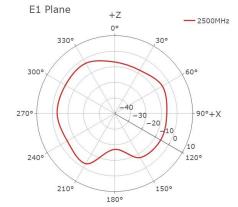


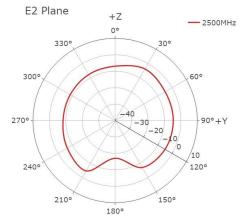


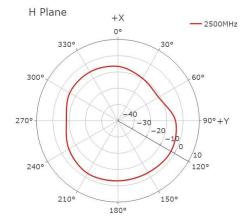


2500MHz









## **5** Product Size

