

Antenna FLM142D Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2024-12-27	Damon.Zhang	Creation of the document
1.0	2024-12-27	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
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications				
Frequency Range	WIFI: 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

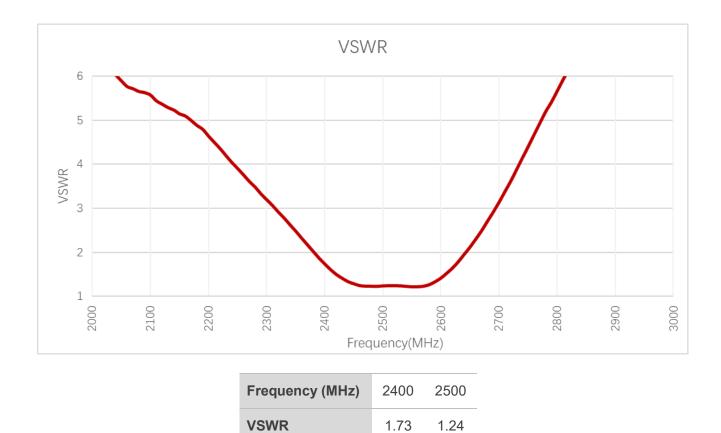
4.1. Test Environment

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



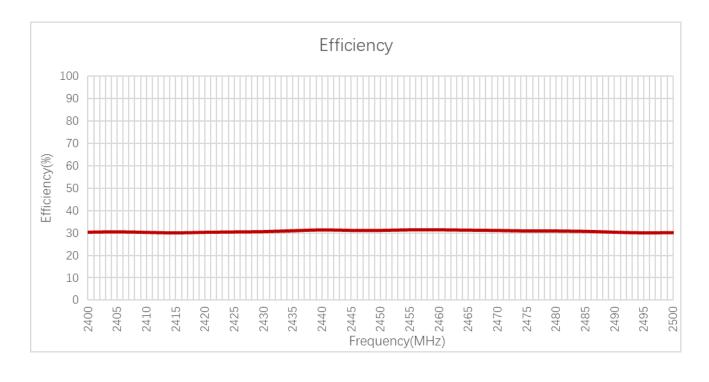


4.2. VSWR





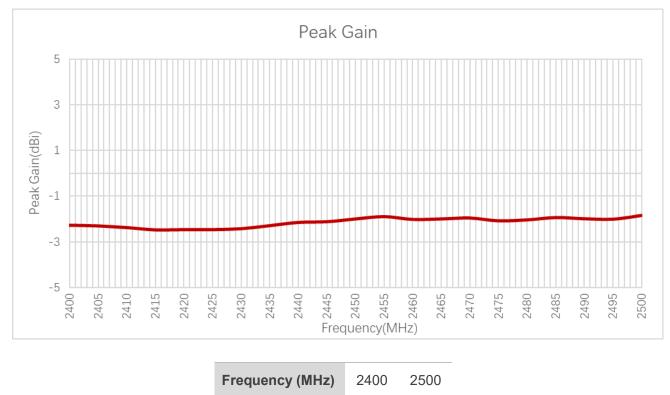
4.3. Efficiency



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



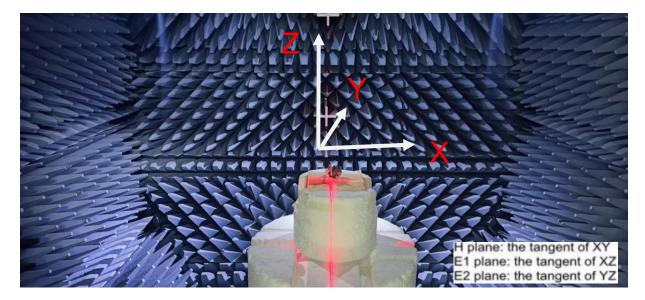
4.4. Gain



Gain (dBi)	-2.27	-1.85

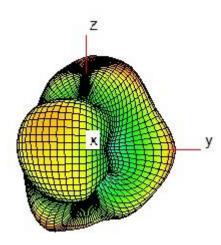


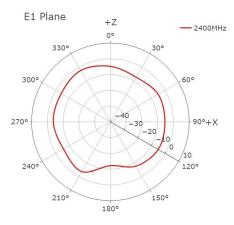
4.5. Radiation Pattern

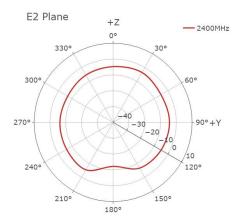


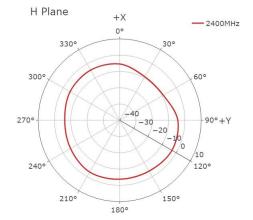


2400MHz

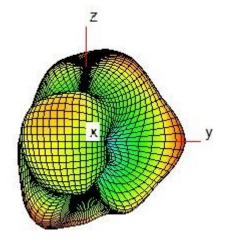


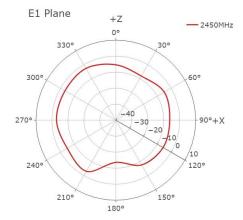




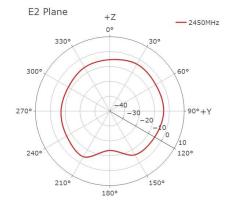


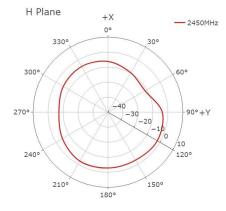




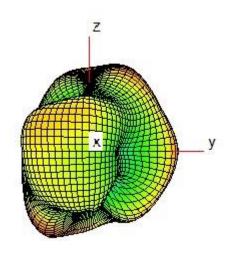


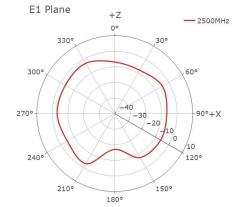


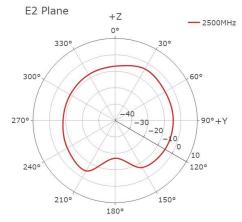


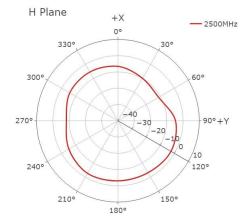


2500MHz









5 Product Size

