

# Antenna

# YME00A0BA Datasheet

## Antenna Services

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# About the Document

## Revision History

Version	Date	Author	Note
-	2022-10-18	Jialin CHEN/ Shea LI	Creation of the document
1.0	2023-01-10	Jialin CHEN/ Shea LI	First official release

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## 1 Product Description

This Quectel embedded 4G FPC antenna covers Div 4G LTE bands and is compatible with 3G/2G/LPWA bands. Featuring high efficiency and gain, it is an ideal antenna for a smooth and stable connection with high-efficiency data transmission even under the influence of the device's internal structure. Ground plane independent, it's designed to be mounted directly to the underside of either a plastic or non-metallic enclosure. Ease of integration with a cable and connector which can be customized to meet your product design and RF module.

## 2 Product Features

- WIFI 2.4G
- High efficiency
- Excellent performance



### 3 Product Specifications

#### Passive Electrical Specifications

Frequency Range(MHz)	2400-2500
Input Impedence	50 Ω
VSWR	≤ 2.0
Gain	≤ 1.1dBi
Polarization Type	Linear

#### Detailed Passive Electrical Specifications

Frequency Range (MHz)	2400-2500
VSWR (Max.)	1.7
Average Efficiency (%)	42.4
Max. Peak Gain (dBi)	1.1

#### Mechanical Specifications

Antenna Size(mm)	21.42*8.42
Material	FPC
Working Temperature	-40 °C to +85 °C
Weight	Typical 0.1g
Color	Black
Mounting Type	Adhesive

## 4 Overall Performance

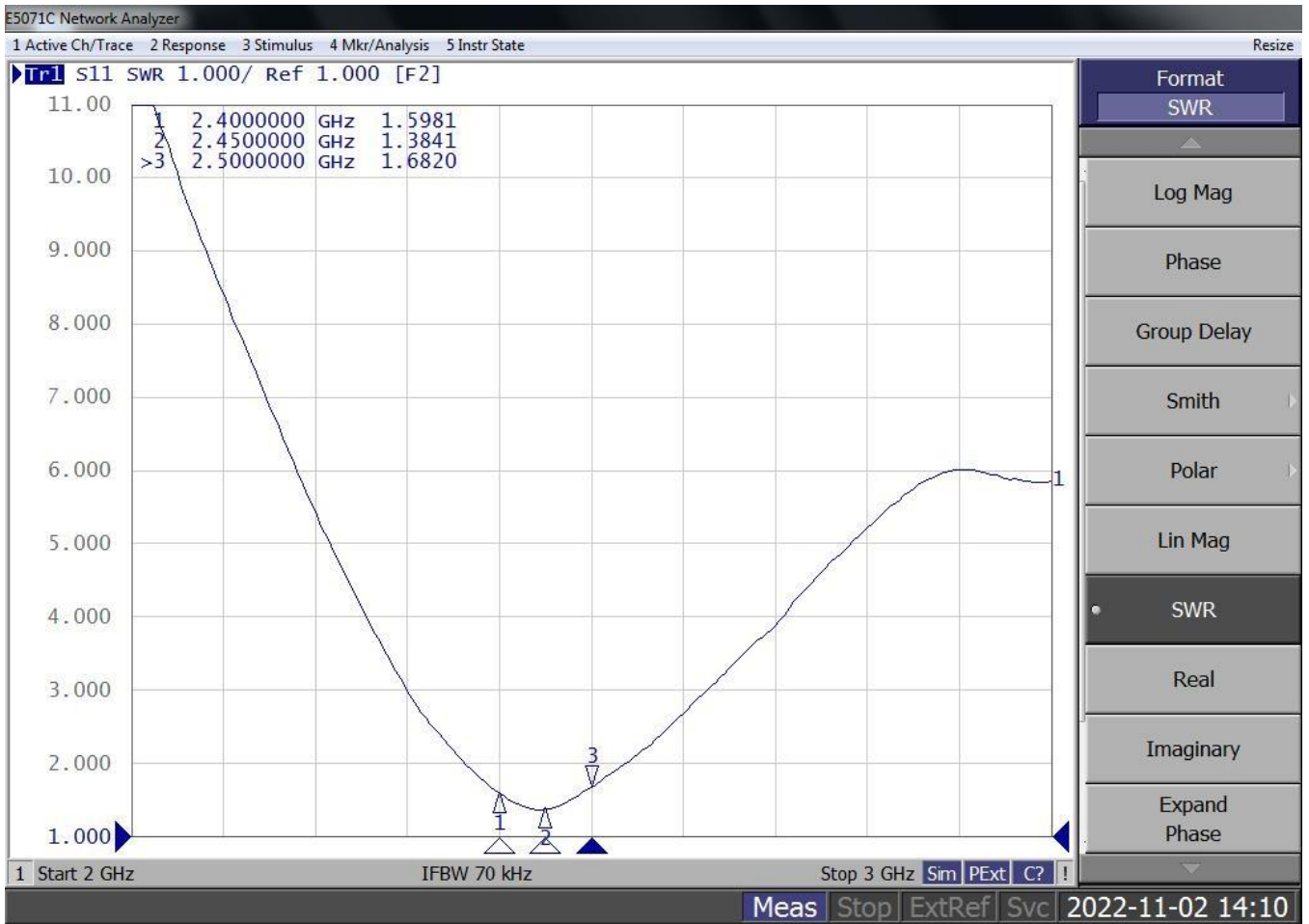
### 4.1. Test Environment

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



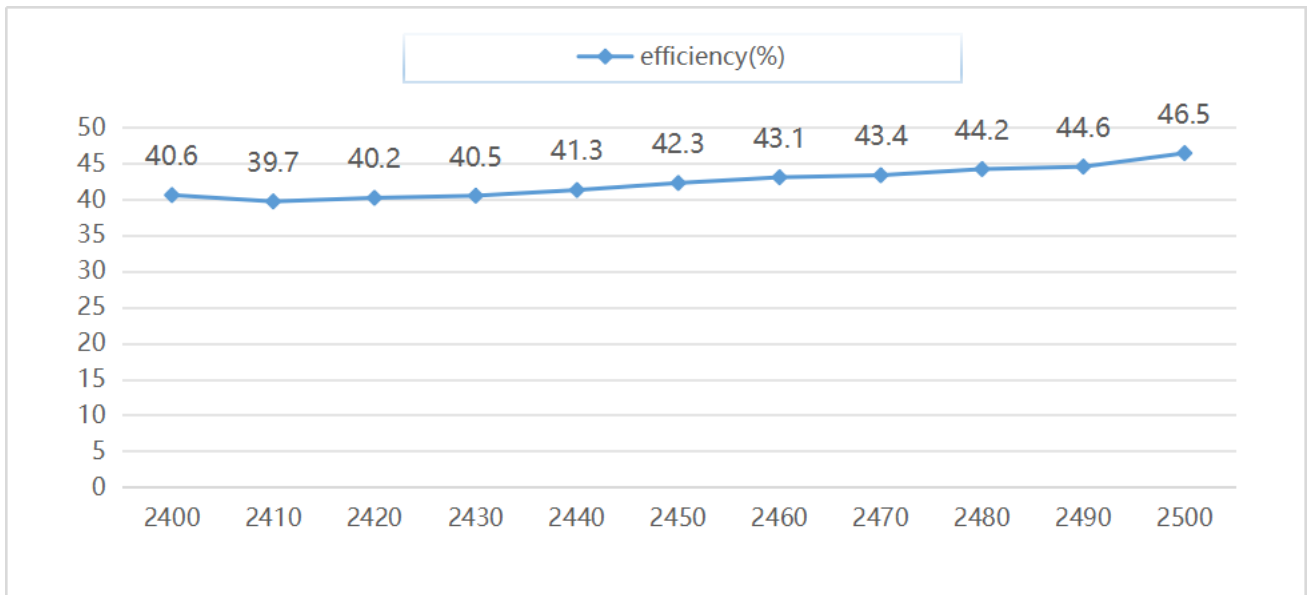


## 4.2. VSWR



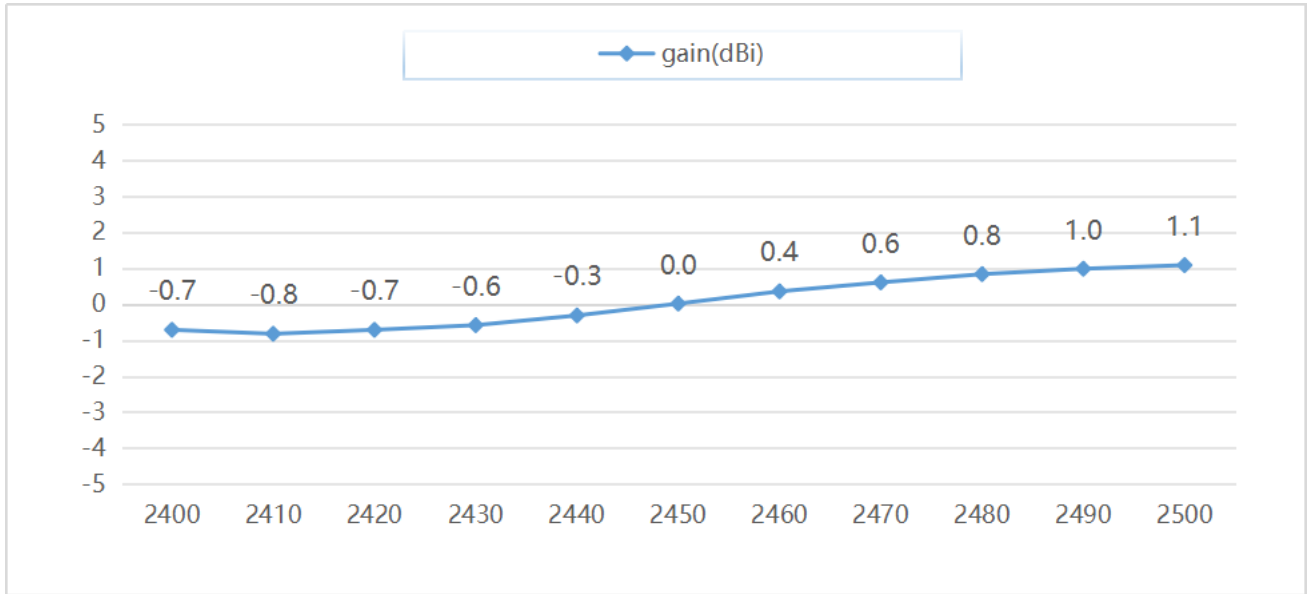
Frequency (MHz)	2400	2450	2500
VSWR	1.6	1.4	1.7

### 4.3. Efficiency



<b>Frequency (MHz)</b>	2400	2450	2500
<b>Efficiency (%)</b>	40.6	42.3	46.5

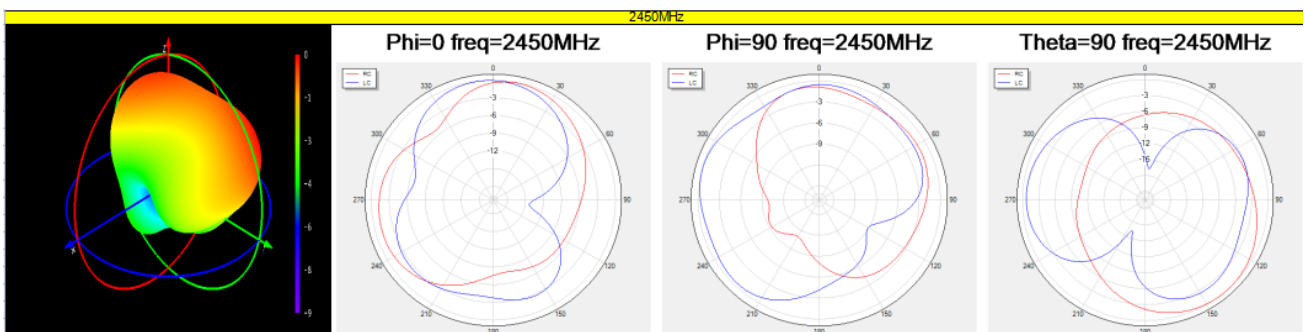
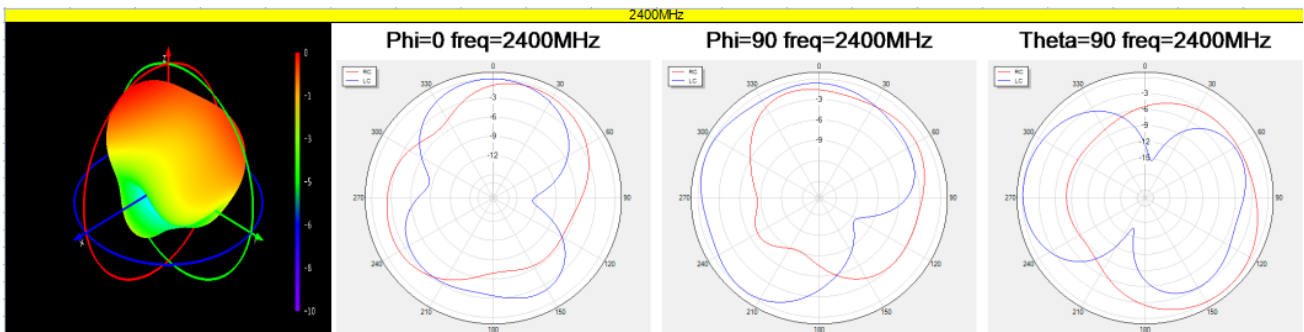
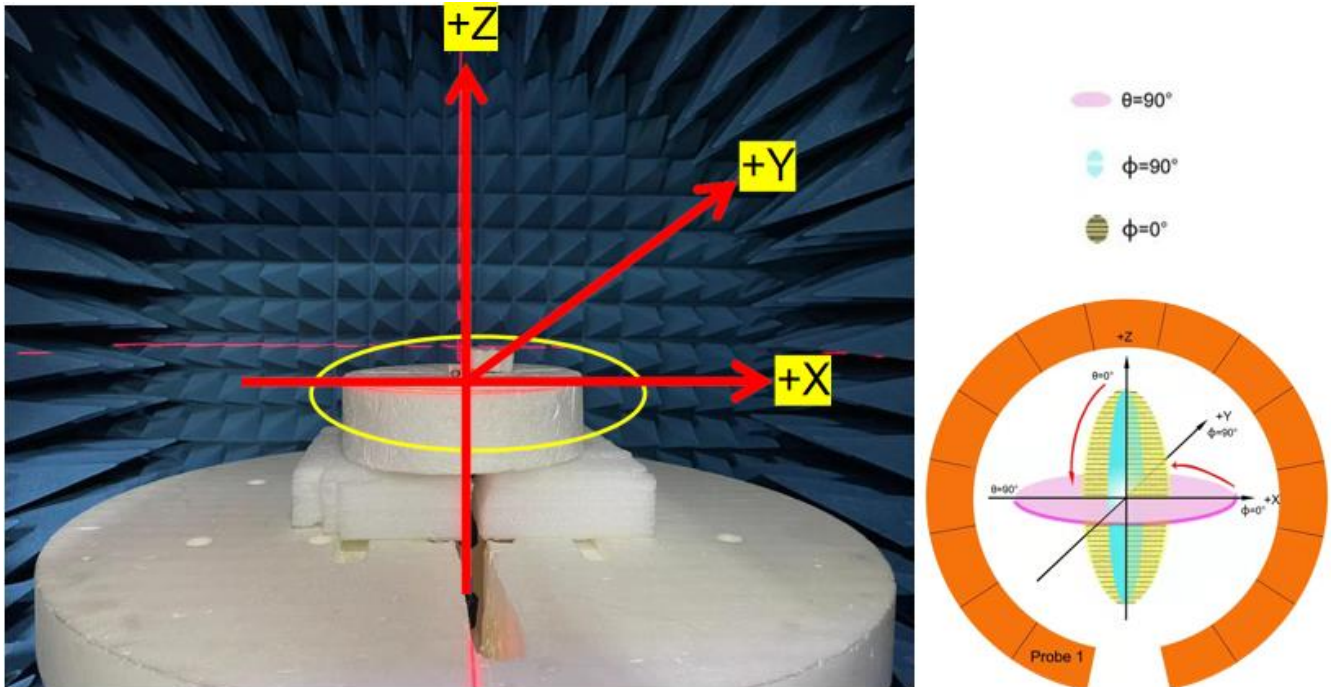
### 4.4. Gain



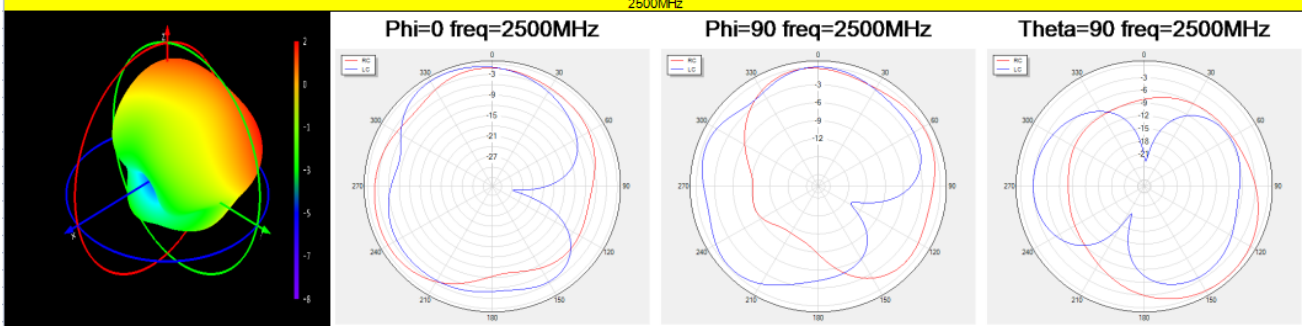
<b>Frequency (MHz)</b>	2400	2450	2500
<b>Gain (dBi)</b>	-0.7	0.0	1.1

### 4.5. Radiation Pattern

- Test condition: free space



2500MHz



## 5 Product Size

ROHS

