

Antenna

YF0026AA Datasheet

Antenna Services

Version: 1.0

Date: 2021-04-01

Status: Released



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About the Document

Revision History

Version	Date	Author	Note
-	2021-04-01	Kenny YIN	Creation of the document
1.0	2021-04-01	Kenny YIN	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

- 2.4G–7.15G WiFi Tri-Band
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range	2400–2500 MHz; 5150–5850 MHz; 5925–7125 MHz
Input Impedence	50 Ω
VSWR	≤ 2.0
Gain	≤ 5.5 dBi
Polarization Type	Linear

Mechanical Specifications

Antenna Size	28.9 mm $\times$ 11 mm
Casing	FPC
Connector Type	IPEX MHF I
Working Temperature	-30 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
Radome Color	Black

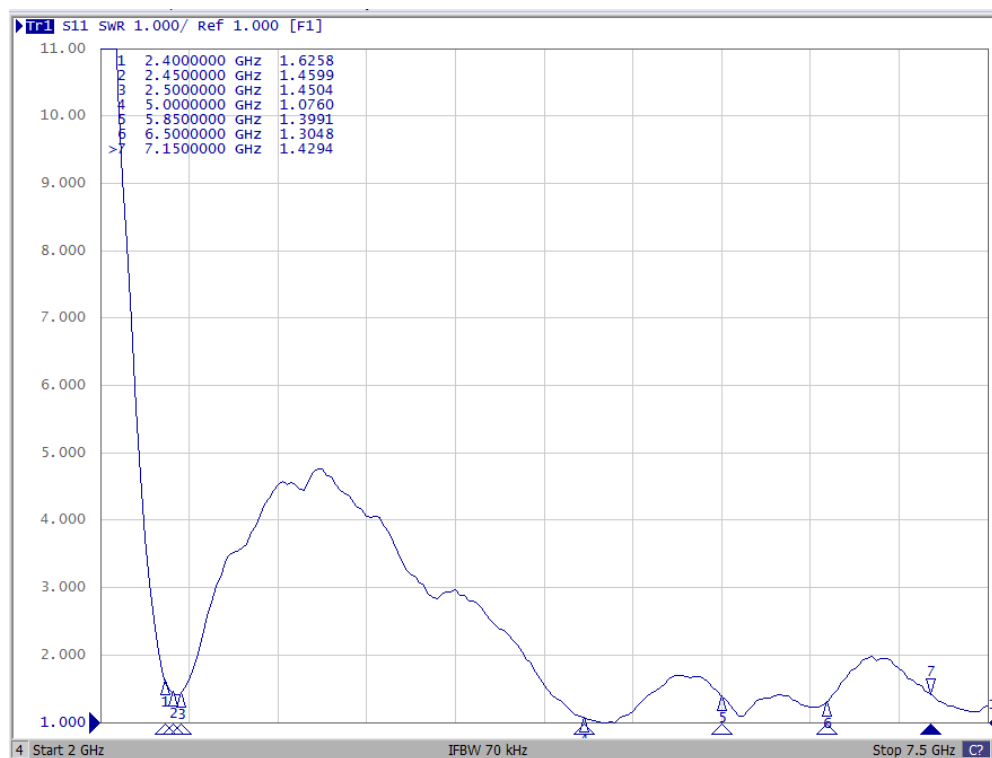
4 Overall Performance

4.1. Test Environment

- KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 8.0 GHz



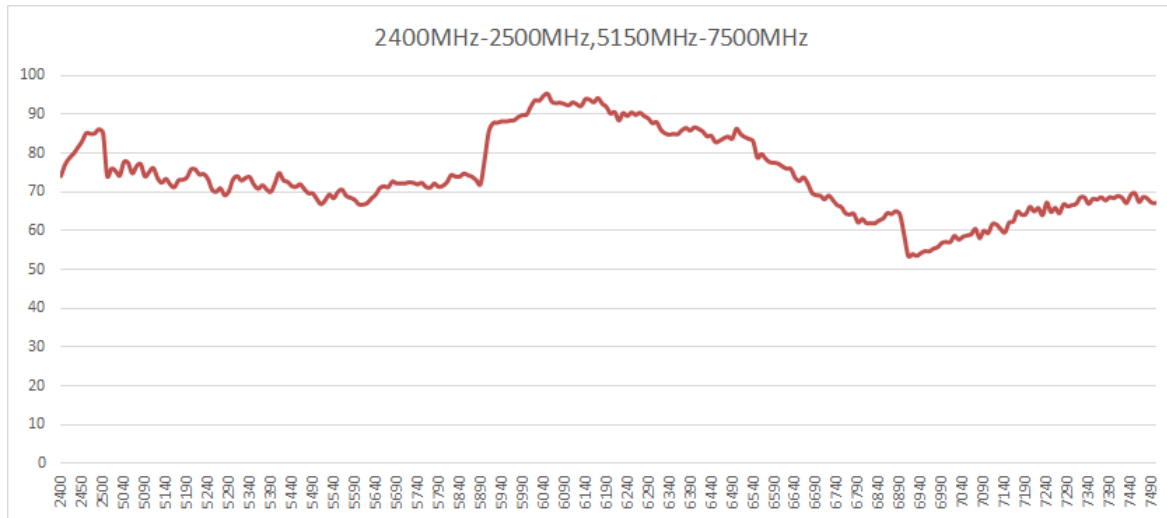
4.2. VSWR



Frequency (MHz)	2400	2450	2500	5000	5850	6500	7150
VSWR	1.62	1.45	1.45	1.07	1.39	1.30	1.42

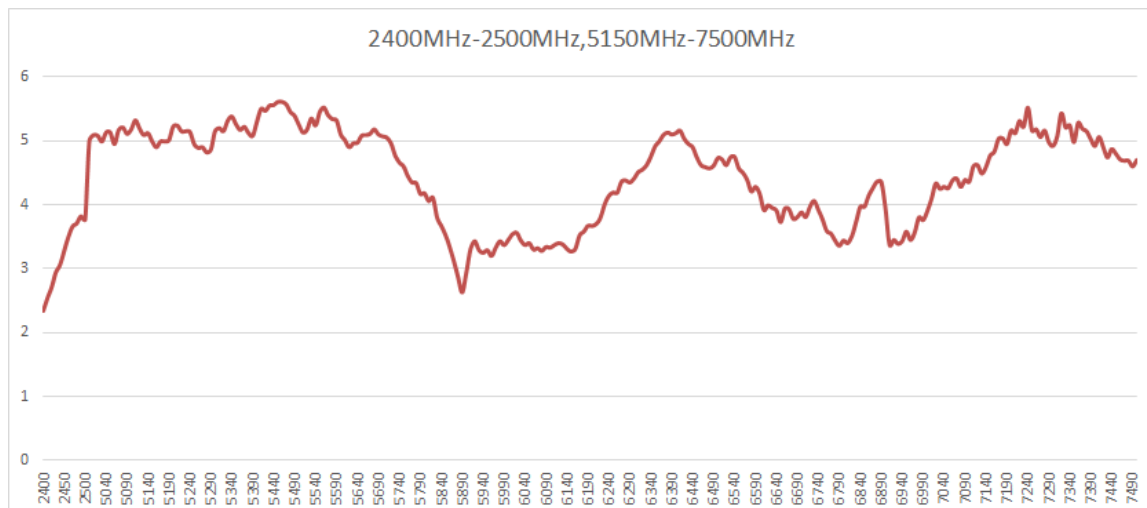
Note: test on 3mm ABS.

4.3. Efficiency



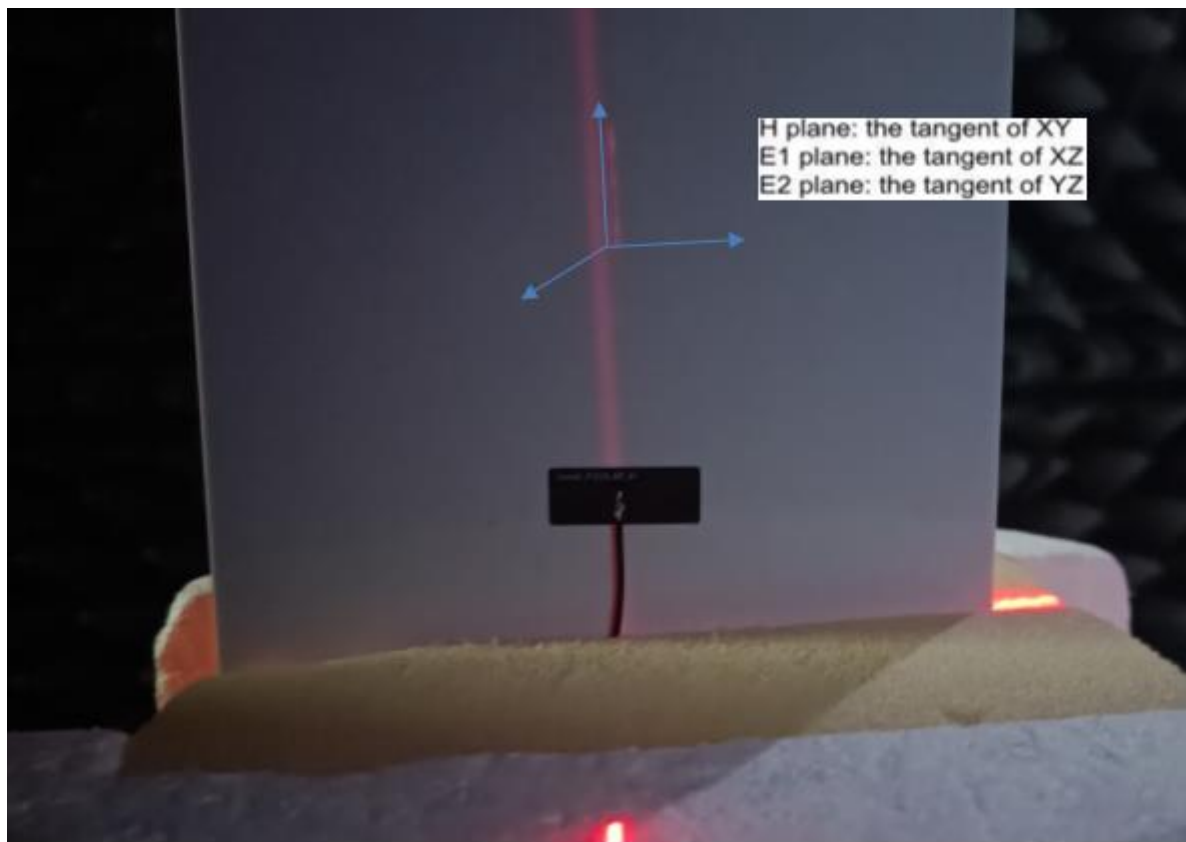
Frequency (MHz)	2400	2450	2500	5000	5850	6500	7150
Efficiency (%)	74.1	83.1	85.3	74.1	74.8	86.4	62.1

4.4. Gain

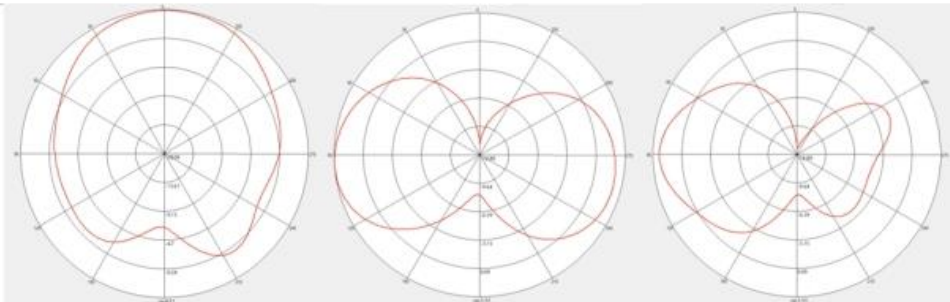
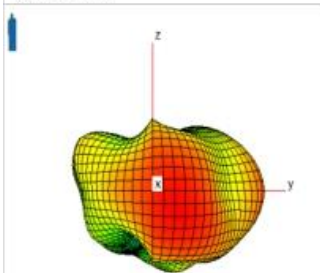


Frequency (MHz)	2400	2450	2500	5000	5850	6500	7150
Gain (dBi)	2.3	3.2	3.8	5.0	3.5	4.7	4.8

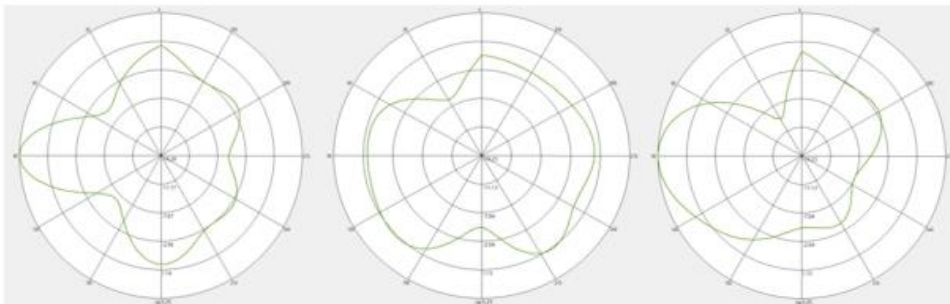
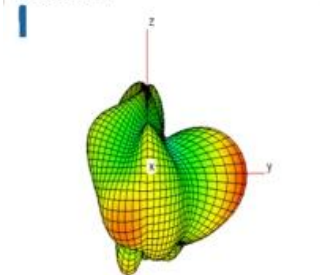
4.5. Radiation Patterns



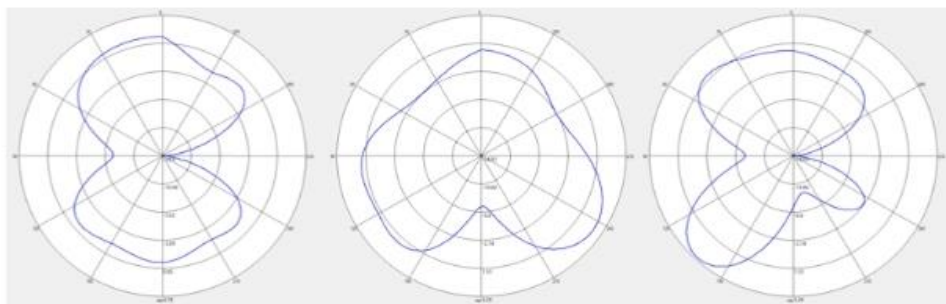
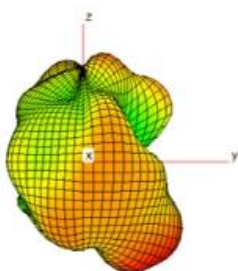
2450MHz



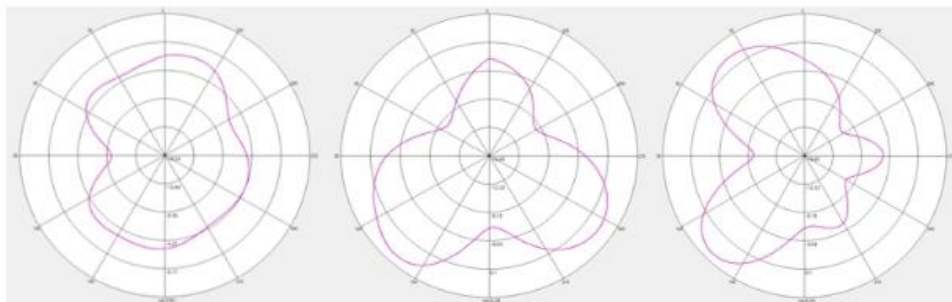
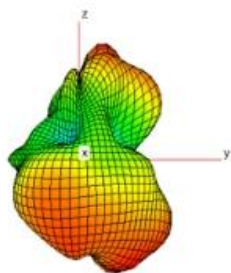
5500MHz



6500MHz



7000MHz



5 Product Size

ROHS

