

Antenna YF0029AA 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

- 2.4–7.15 GHz Wi-Fi Tri-Band
- High efficiency
- Excellent performance



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3 Product Specifications

Passive Electrical Specifications							
Frequency Range	2400–2500 MHz; 5150–5850 MHz; 5925–7125 MHz						
Input Impendence	50 Ω						
VSWR	≤ 2.3						
Gain	≤ 6.64 dBi						
Polarization Type	Linear						
Mechanical Specifications							
Antenna Size	29.98 mm × 30.85 mm						
Casing	FPC						
Connector Type	IPEX MHF I						
Working Temperature	-40 °C to +85 °C						
Radome Color	Black						

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4 Overall Performance

4.1. Test Environment

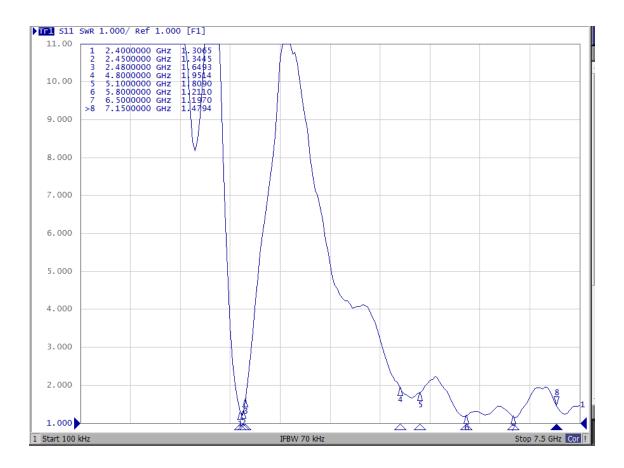
- KEYSIGHT VNA Network Analyzer E5063A 100 KHz 8.5 GHz
- RayZone[®]2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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4.2. **VSWR**



Frequency (MHz)	2400	2450	2480	4800	5100	5800	6500	7150
VSWR	1.55	1.25	1.64	1.95	1.80	1.21	1.19	1.27

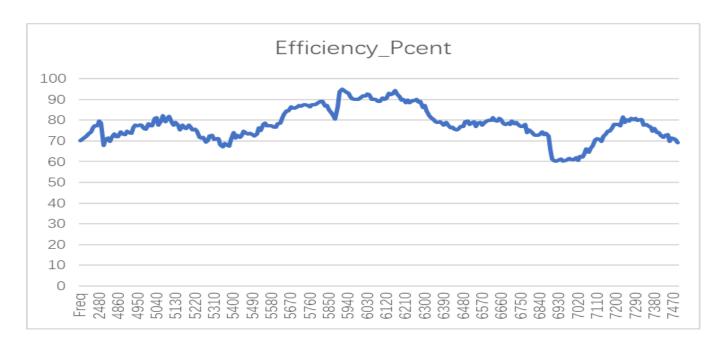
Note: test on 3mm ABS.

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4.3. Efficiency

2400-2500 MHz; 5150-5850 MHz; 5925-7125 MHz



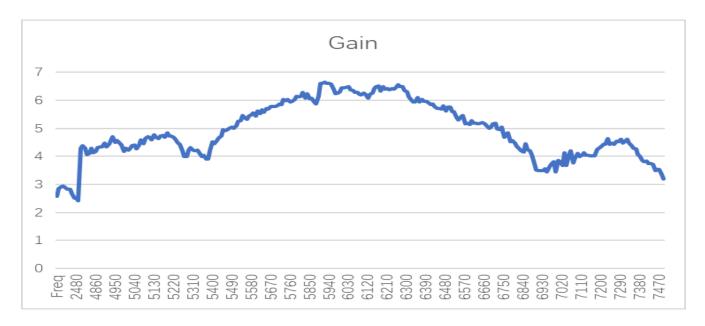
Frequency (MHz)	2400	2450	2500	5150	5550	5850	6500	7150
Efficiency (%)	70.14	74.49	79.34	77.73	77.94	87.23	76.84	72.24

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4.4. Gain

2400-2500 MHz; 5150-5850 MHz; 5925-7125 MHz

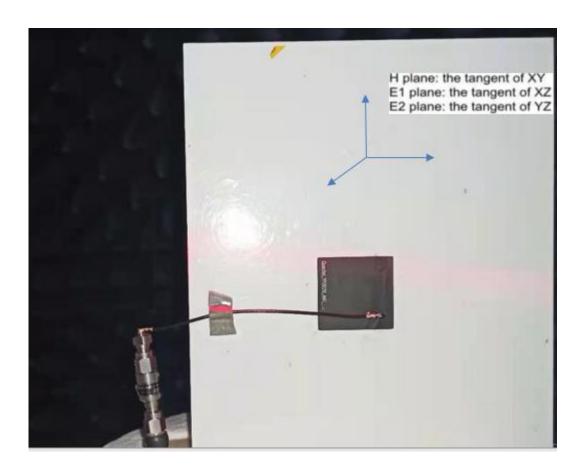


Frequency (MHz)	2400	2450	2500	5150	5550	5850	6500	7150
Gain (dBi)	2.57	2.82	2.42	4.68	5.45	6.23	5.30	4.04

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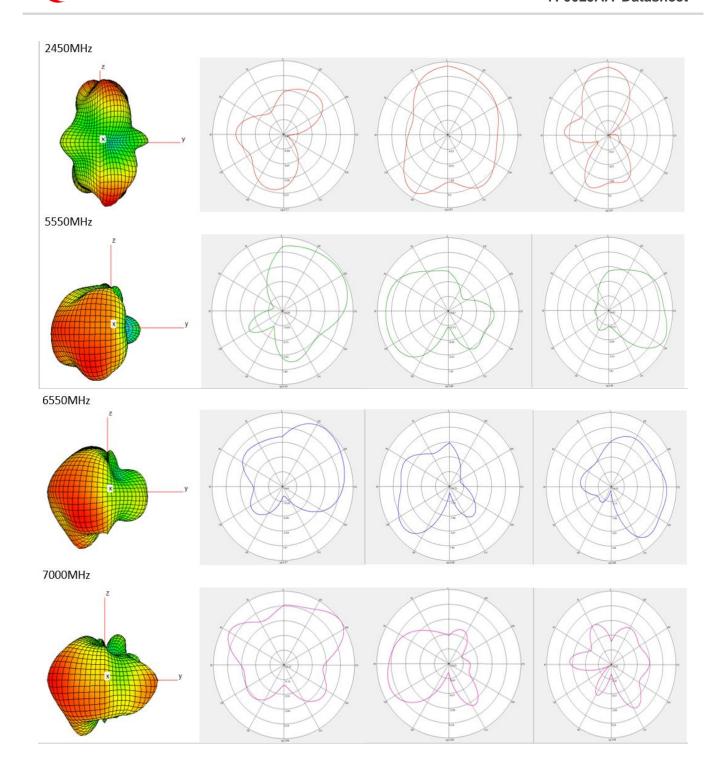


4.5. Radiation Patterns



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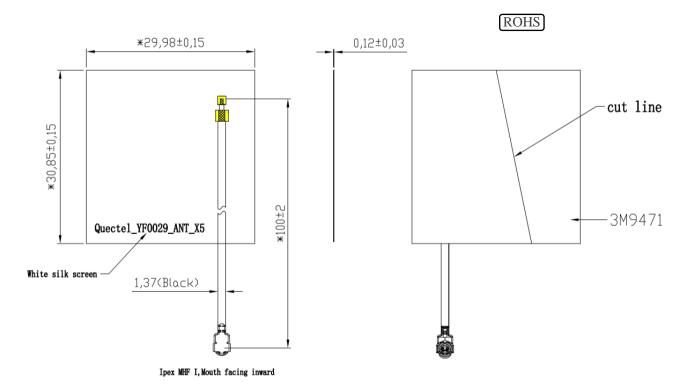




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5 Product Size



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