

# Antenna YF0028AA Datasheet

#### **Antenna Services**

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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

- NB-IOT 698–960 MHz, 1700–2700 MHz
- High efficiency
- Excellent performance



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# 3 Product Specifications

Passive Electrical Specifications						
Frequency Range	698–960 MHz; 1710–2690 MHz					
Input Impendence	50 Ω					
VSWR	≤ 4.0					
Gain	≤ 4.84 dBi					
Polarization Type	Linear					
Mechanical Specifications						
Antenna Size	94 mm × 21 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

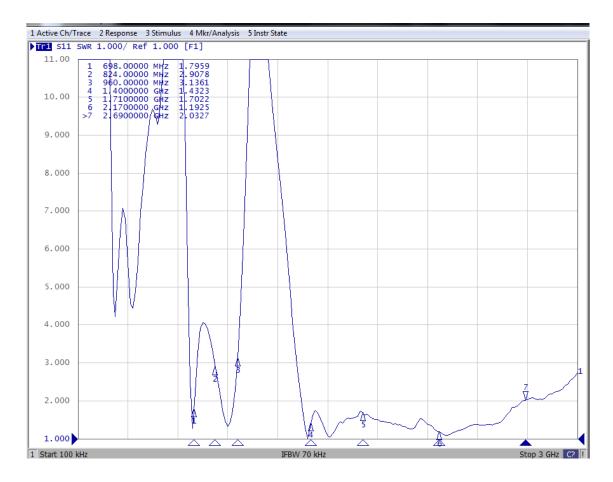
- KEYSIGHT VNA Network Analyzer E5063A 100 KHz 8.5 GHz
- RayZone<sup>®</sup>2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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## 4.2. **VSWR**



Frequency (MHz)	698	824	960	1400	1710	2170	2690
VSWR	1.79	2.90	3.13	1.43	1.70	1.19	2.09

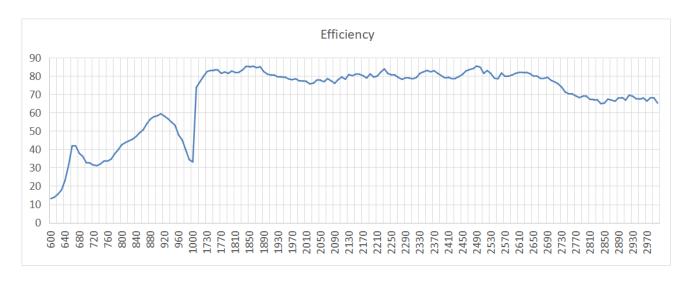
Note: test on 3mm ABS.

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# 4.3. Efficiency

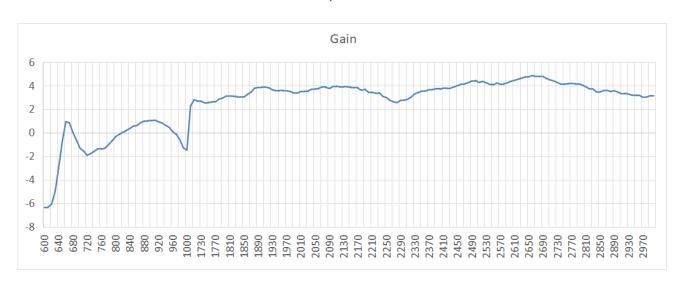
#### 700-960 MHz; 1710-2690 MHz



Frequency (MHz)	700	850	950	1700	2100	2300	2700
Efficiency (%)	32.48	48.99	53.05	73.69	77.47	78.56	77.22

#### 4.4. Gain

#### 700-960 MHz; 1710-2690 MHz

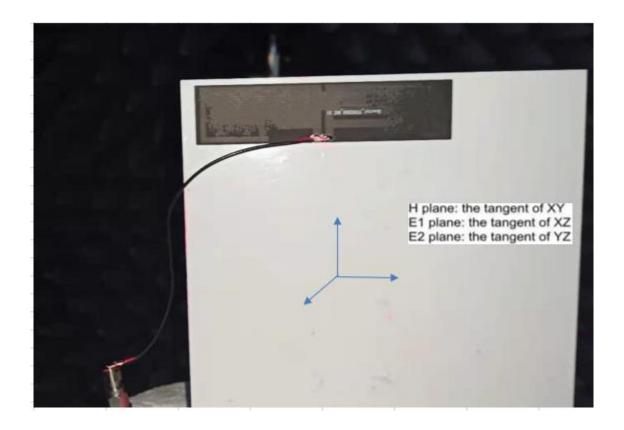


Frequency (MHz)	700	850	950	1700	2100	2300	2700
Gain (dBi)	-1.34	0.55	0.45	2.25	3.91	2.76	4.54

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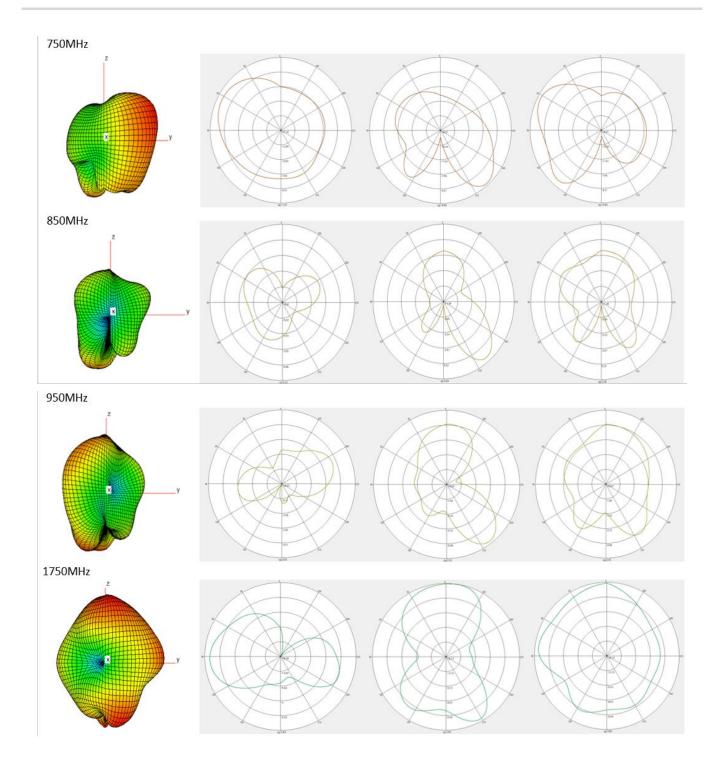


## 4.5. Radiation Patterns



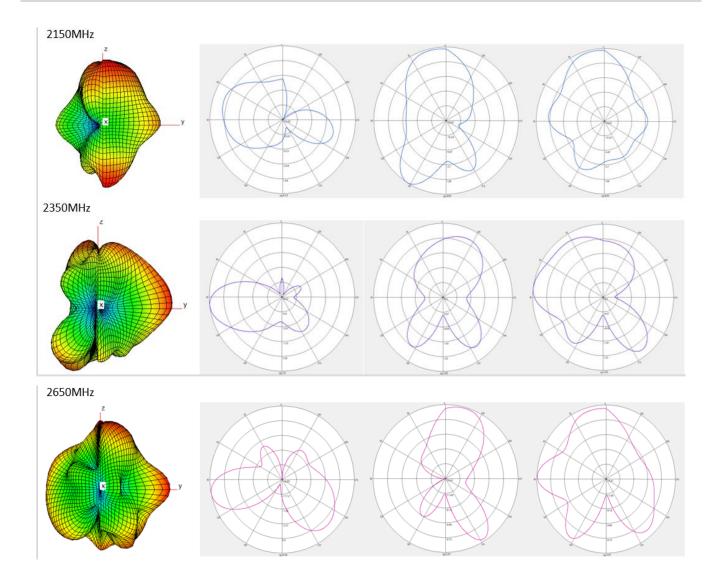
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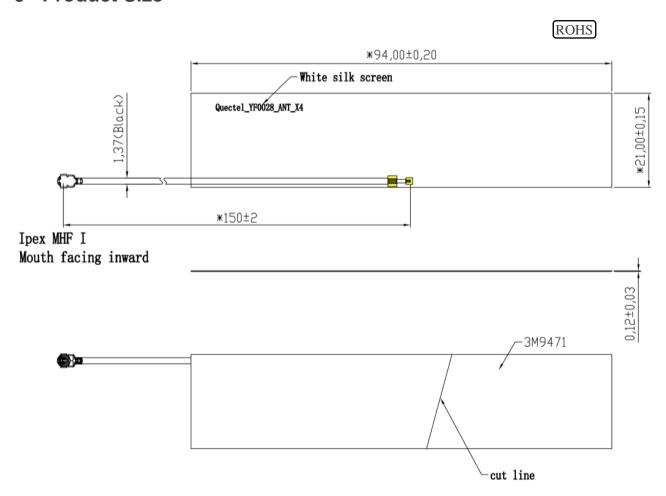




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# 5 Product Size



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