

Antenna YFCA002AA Datasheet

Antenna Services

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Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Tel: +86 21 5108 6236 Email: info@quectel.com

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Antenna_Datasheet 1 / 16



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Antenna_Datasheet 2 / 16



About the Document

Revision History

Version	Date	Author	Note
-	2021-03-22	Kenny YIN	Creation of the document
1.0	2021-03-22	Kenny YIN	First official release
1.1	2021-05-27	Kenny YIN	Updated working temperature.

Antenna_Datasheet 3 / 16



Contents

Ab	out th	e Document	3
Co	ntents	<u>, , , , , , , , , , , , , , , , , , , </u>	4
1	Prod	uct Description	5
2	Prod	uct Features	5
3	Prod	uct Specifications	6
4	Over	all Performance	7
		Test Environment	
		VSWR	
	4.3.	Efficiency	9
		Gain	
	4.5.	Radiation Patterns	13
5	Prod	uct Size	16



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

- Cellular LTE
- High efficiency
- Excellent performance



Antenna_Datasheet 5 / 16



3 Product Specifications

Passive Electrical Specifications						
Frequency Range	700–2690 MHz					
Input Impendence	50 Ω					
VSWR	≤ 4.0					
Gain	≤ 4.47 dBi					
Polarization Type	Linear					
Mechanical Specifications						
Antenna Size	30 mm × 20 mm					
Casing	FPC					
Connector Type	RF I Generation					
Working Temperature	-40 °C to +85 °C					
Radome Color	Black					

Antenna_Datasheet 6 / 16



4 Overall Performance

4.1. Test Environment

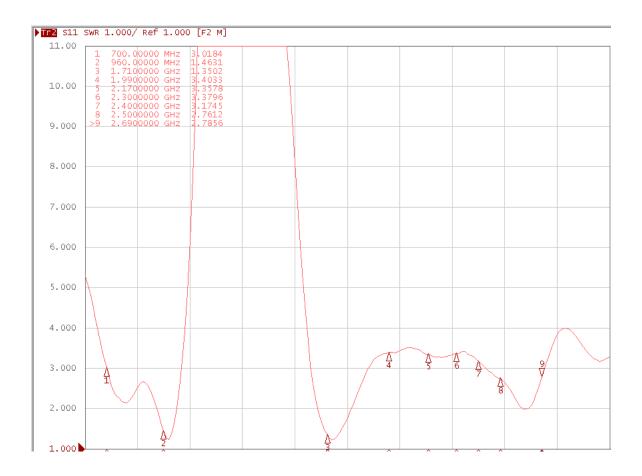
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



Antenna_Datasheet 7 / 16



4.2. **VSWR**

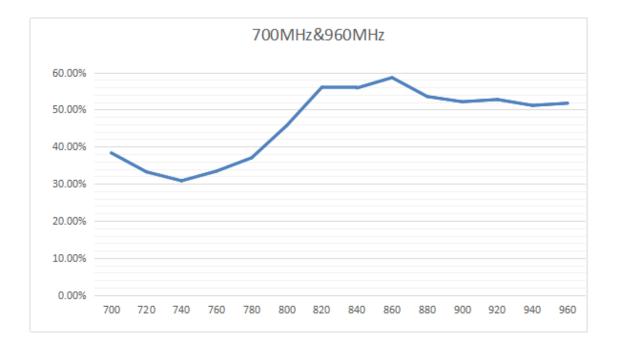


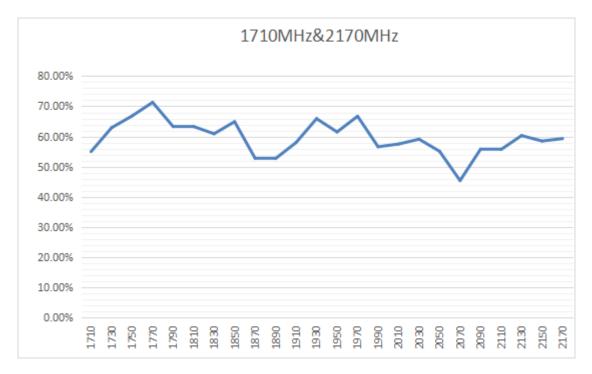
Frequency (MHz)	700	960	1710	1990	2170	2300	2400	2500	2690
VSWR	3.02	1.46	1.35	3.40	3.36	3.38	3.17	2.76	2.78

Antenna_Datasheet 8 / 16



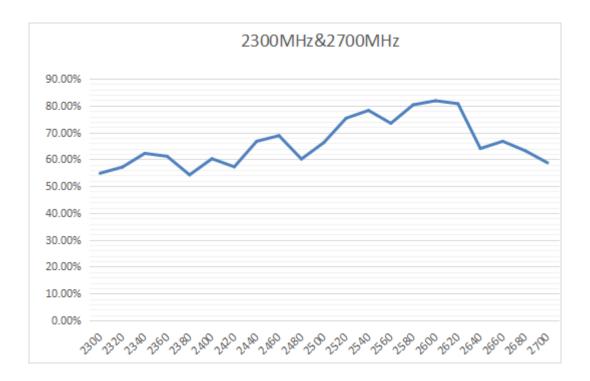
4.3. Efficiency





Antenna_Datasheet 9 / 16



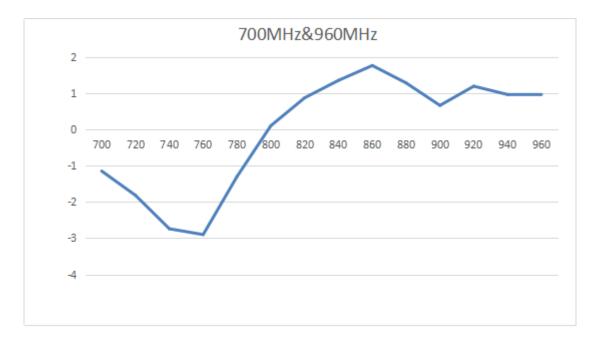


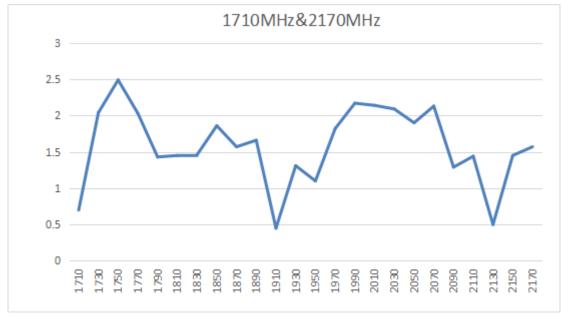
Frequency (MHz)	700	960	1710	1990	2170	2300	2400	2500	2680
Efficiency (%)	38.3	51.7	55	56.6	59.3	54.8	60.2	66.2	63.2

Antenna_Datasheet 10 / 16



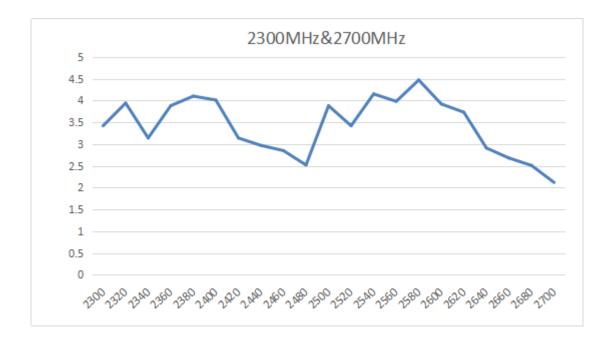
4.4. Gain





Antenna_Datasheet 11 / 16



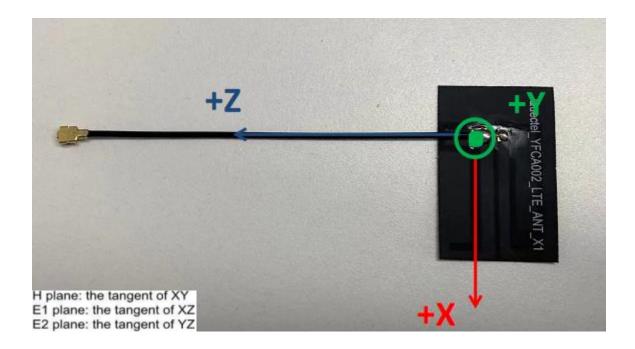


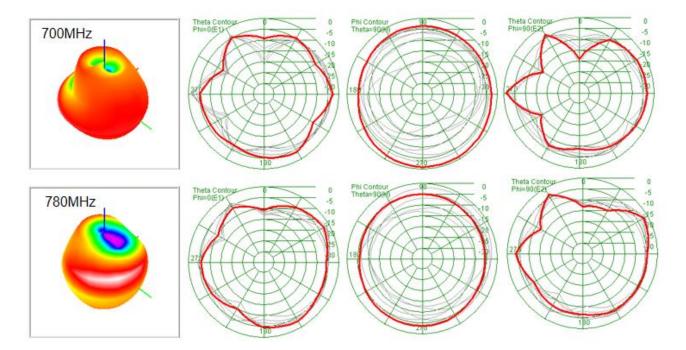
Frequency (MHz)	700	960	1710	1990	2170	2300	2400	2500	2680
Gain (dBi)	-1.15	0.97	0.7	2.17	1.57	3.42	4.01	3.88	2.51

Antenna_Datasheet 12 / 16



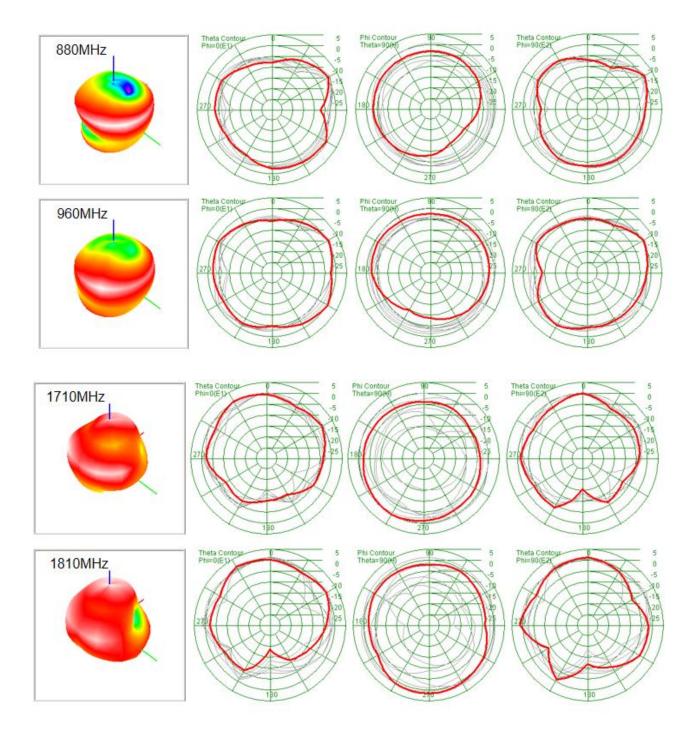
4.5. Radiation Patterns





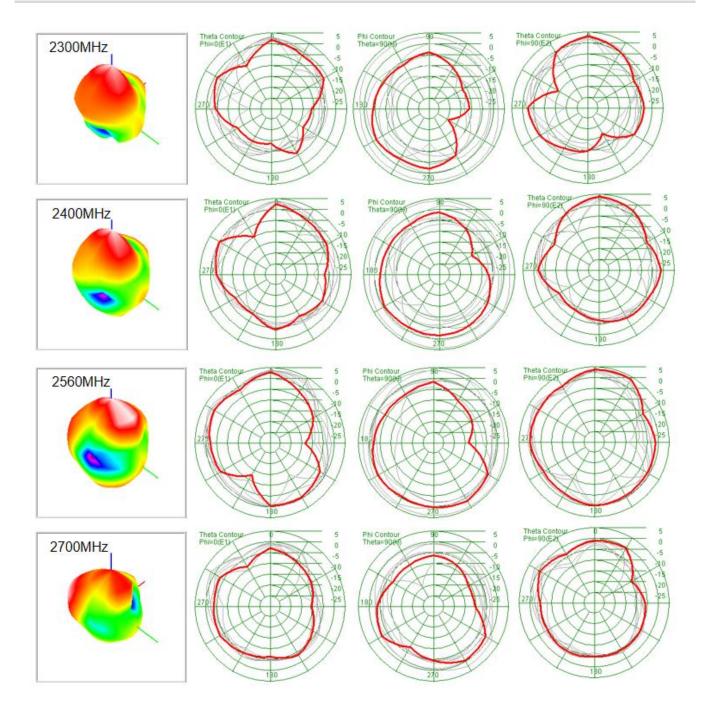
Antenna_Datasheet 13 / 16





Antenna_Datasheet 14 / 16

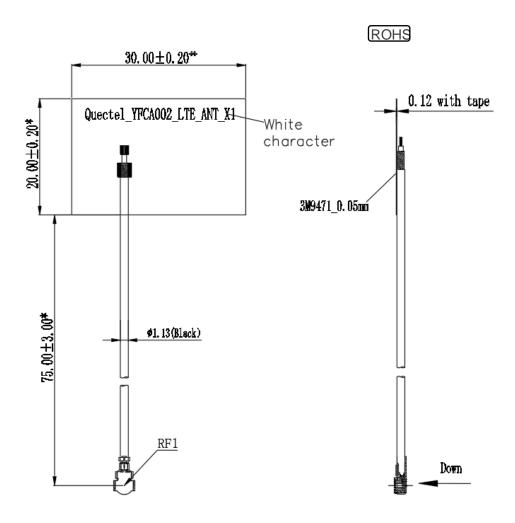




Antenna_Datasheet 15 / 16



5 Product Size



Antenna_Datasheet 16 / 16

Mouser Electronics

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