

Antenna YF0007BA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2020-11-27	Kenny YIN	Creation of the document
1.0	2020-11-27	Kenny YIN	First official release
1.1	2021-05-27	Kenny YIN	 Updated working temperature in Chapter 3; Updated antenna picture in Chapter 2; Updated antenna drawing in Chapter 5.

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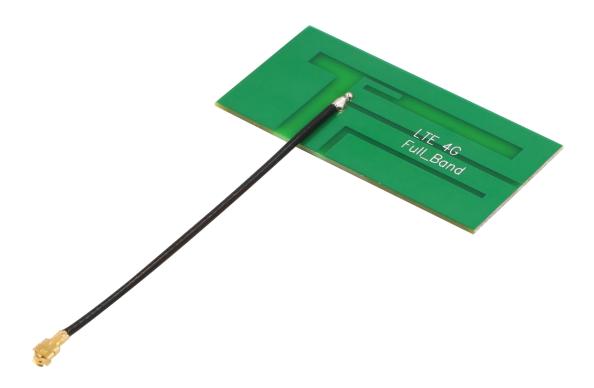
1 Product Description

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

- LTE antenna
- High efficiency
- Excellent performance



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3 Product Specifications

Passive Electrical Specifications	
Frequency Range	600–960 MHz; 1427.9–1495.9 MHz; 1710–2170 MHz; 2300–2700 MHz
Input Impendence	50 Ω
VSWR	≤ 5.0
Gain	≤ 4.7 dBi
Polarization Type	Linear
Mechanical Specifications	
Antenna Size	50 mm × 25 mm × 0.85 mm
Connector Type	RF Generation 1
Working Temperature	-40 °C to +85 °C
Radome Color	Green

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4 Overall Performance

4.1. Test Environment

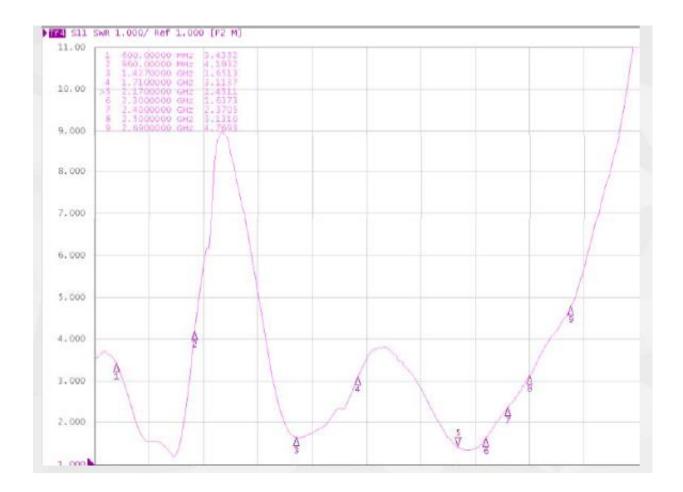
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone[®]2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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4.2. **VSWR**

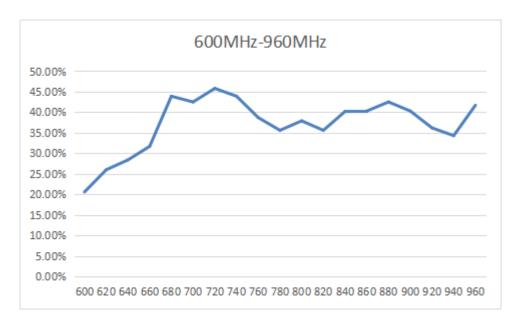


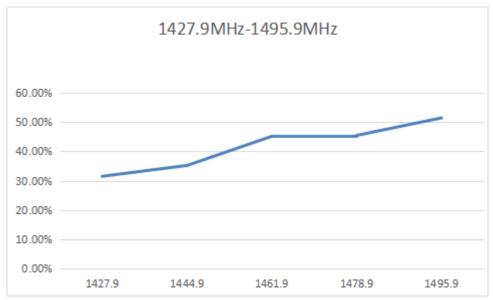
Frequency (MHz)	600	960	1427	1710	2170	2300	2400	2500	2690
VSWR	3.44	4.19	1.65	3.11	1.43	1.64	2.37	3.14	4.77

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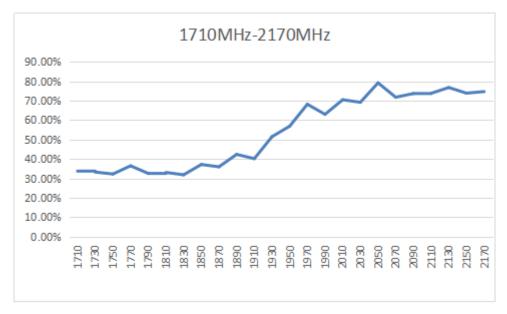
4.3. Efficiency

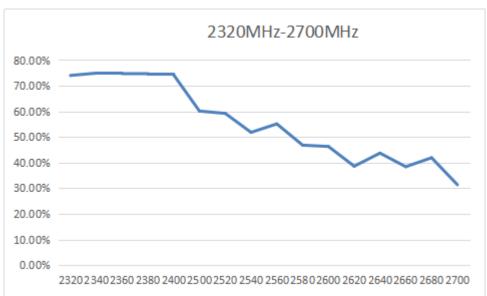




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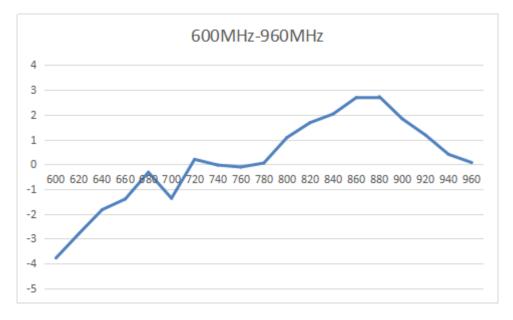


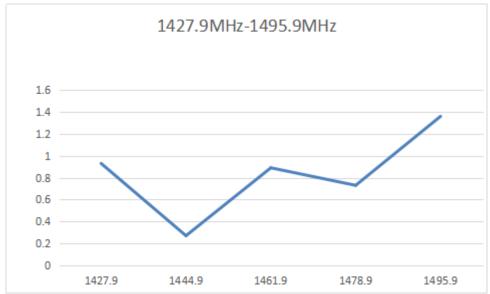
Frequency (MHz)	600	820	960	1710	1990	2170	2320	2580	2680
Efficiency (%)	43.9	35.6	41.7	33.8	63	74.7	74	46.8	41.9

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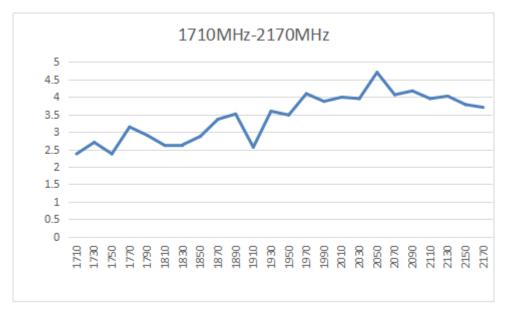
4.4. Gain

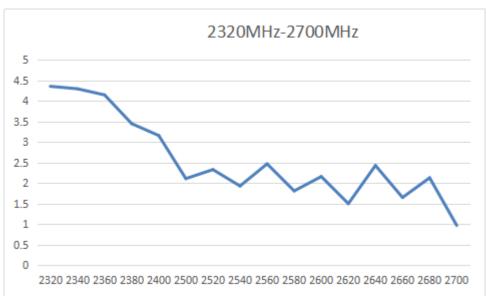




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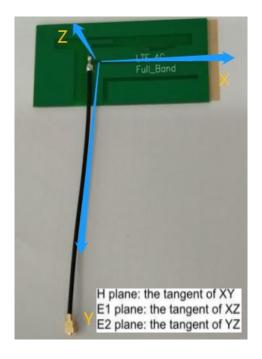


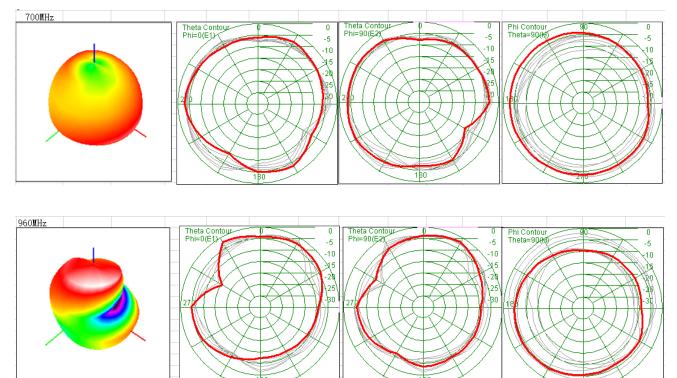
Frequency (MHz)	600	960	1427	1710	2170	2320	2400	2500	2680
Gain (dBi)	-3.78	0.07	0.93	2.37	3.7	4.36	3.16	2.11	2.13

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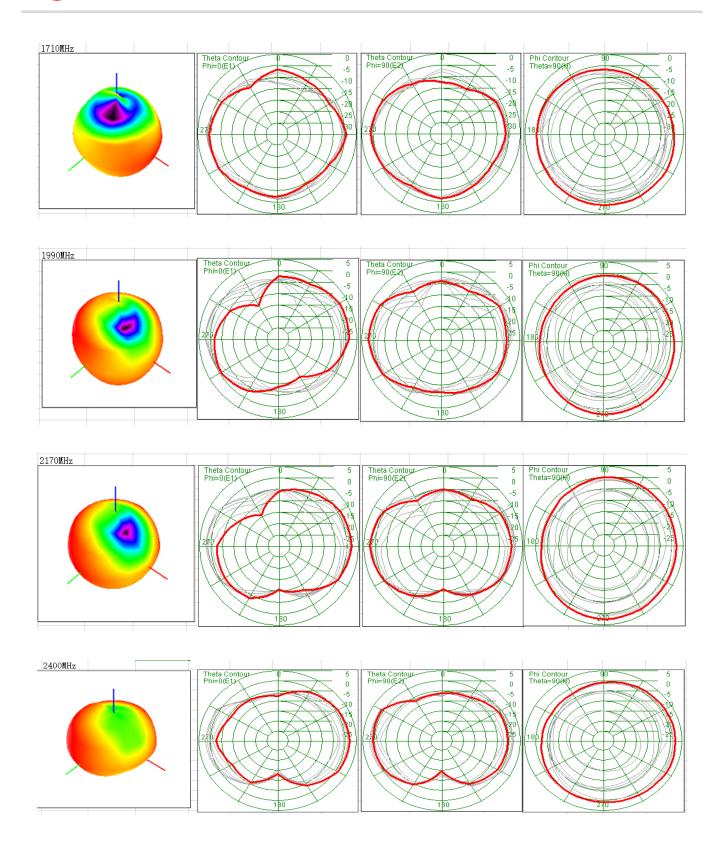
4.5. Radiation Patterns





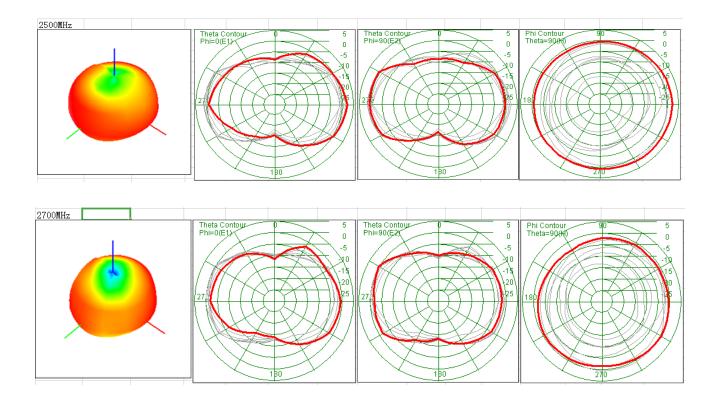
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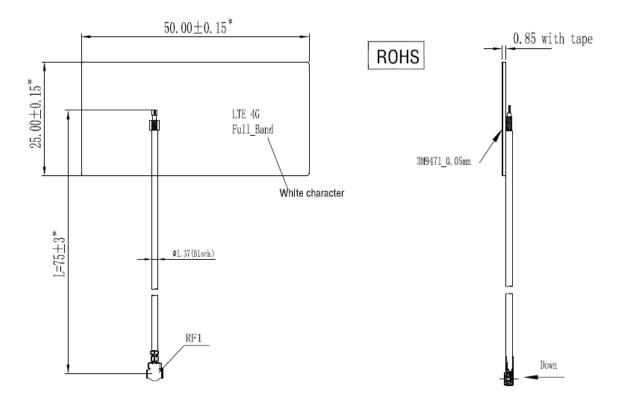




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5 Product Size



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