

Antenna YE0008AA Datasheet

Antenna Services

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Status: Released







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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-06-03	Kenny YIN	Initial
1.1	2021-01-12	Kenny YIN	Updated the antenna image in Chapter 2.
1.2	2021-01-27	Kenny YIN	Added IP rating description in Chapter 3.
1.3	2021-06-04	Kenny YIN	Updated working temperature in Chapter 3.



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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

- 3G Stubby Antenna
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications				
Frequency Range	824–960 MHz; 1710–2170 MHz			
Input Impendence	50 Ω			
VSWR	≤ 3.5			
Gain	≤ 3 dBi			
Polarization Type	Linear			
Mechanical Specifications				
Antenna Size	52 mm × Φ 10 mm			
Casing	ABS			
Connector Type	SMA Male (center pin)			
Working Temperature	-40 °C to +85 °C			
Radome Color	Black			
IP Rating	IP65			

4 Overall Performance

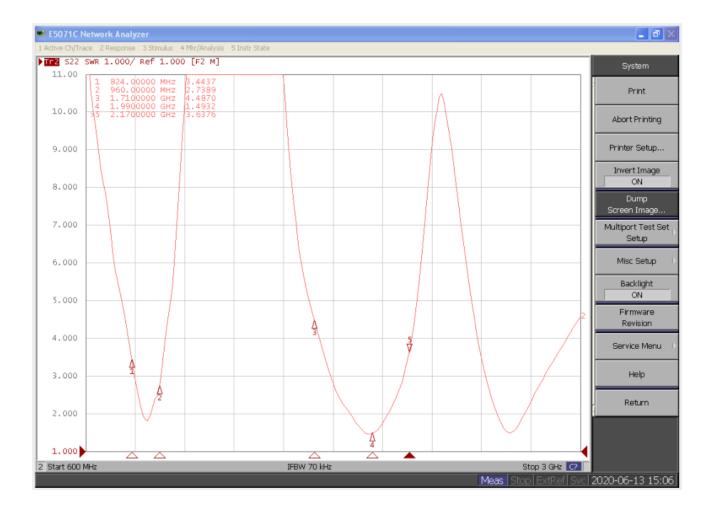
4.1. Test Environment

- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 6.5 GHz.
- RayZone[®]2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 6.0 GHz.





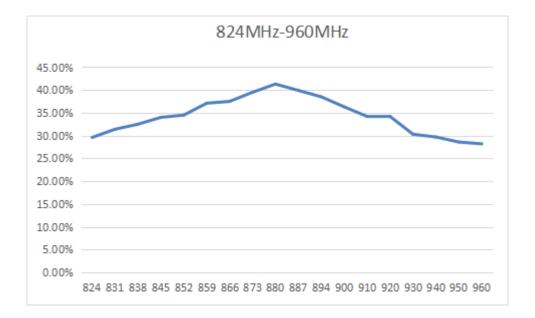
4.2. VSWR

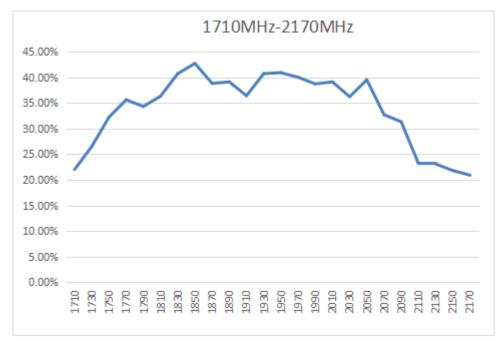


Frequency (MHz)	824	960	1710	1990	2170
VSWR	3.44	2.73	4.48	1.50	3.64



4.3. Efficiency

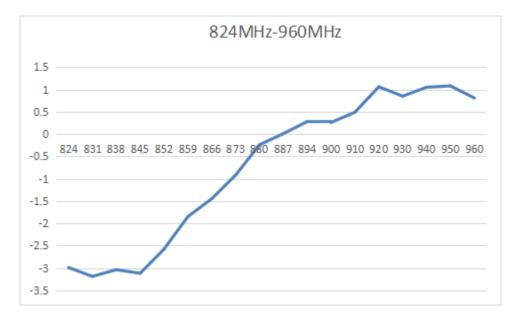


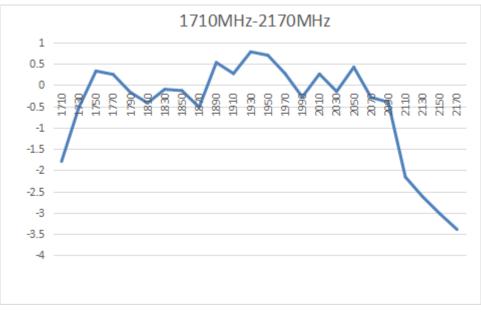


Frequency (MHz)	824	960	1710	1990	2170
Efficiency (%)	29.6	28.2	22	38.7	20.9



4.4. Gain

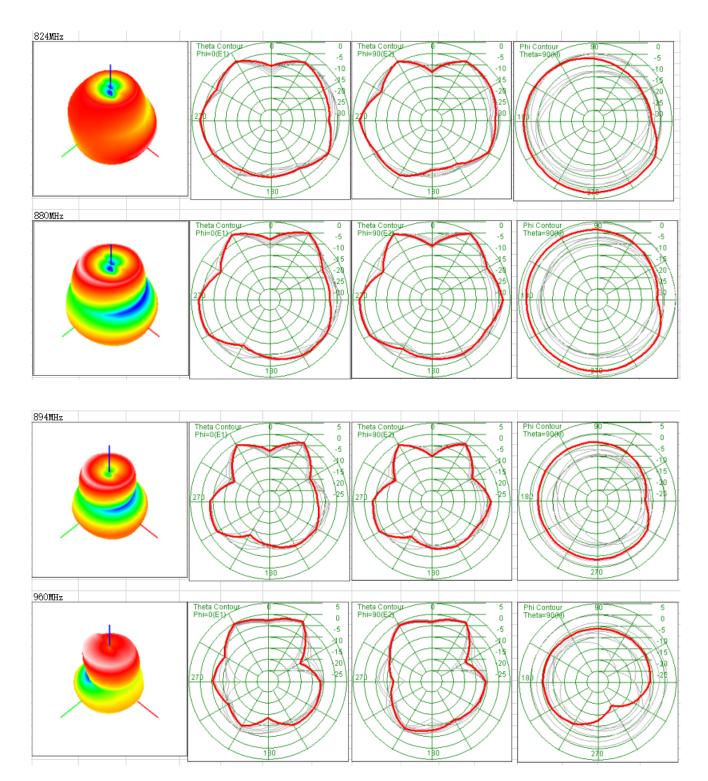




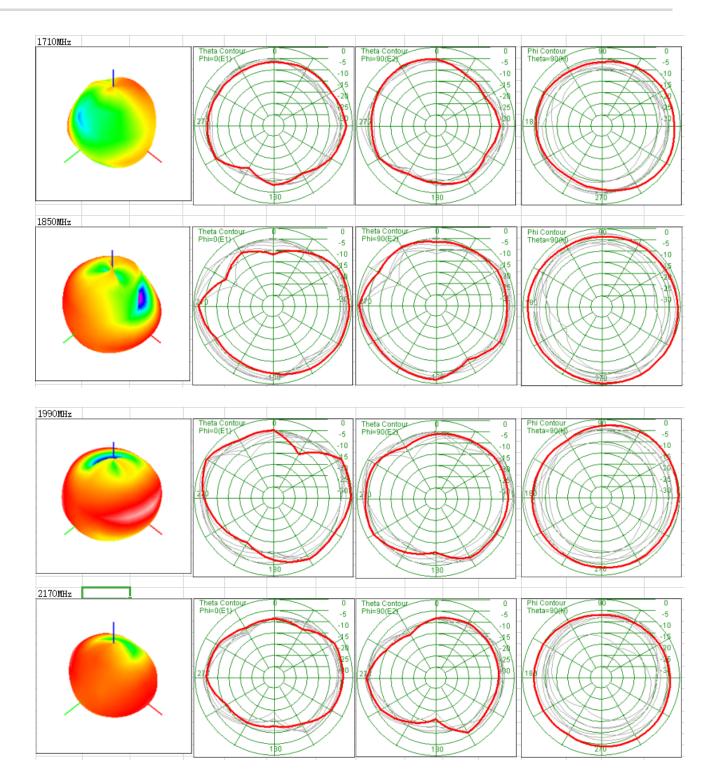
Frequency (MHz)	824	960	1710	1990	2170
Gain (dBi)	-2.99	0.81	-1.79	-0.28	-3.39



4.5. Radiation Pattern







5 Product Size

