

Antenna

YE0011AA 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	2020-12-11	Kenny YIN	Updated the antenna image in Chapter 2.

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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 (MHz)	824–960; 1710–2170
Input Impedance (Ω)	50
VSWR	≤ 3.5
Gain (dBi)	≤ 3
Polarization Type	Linear

Mechanical Specifications

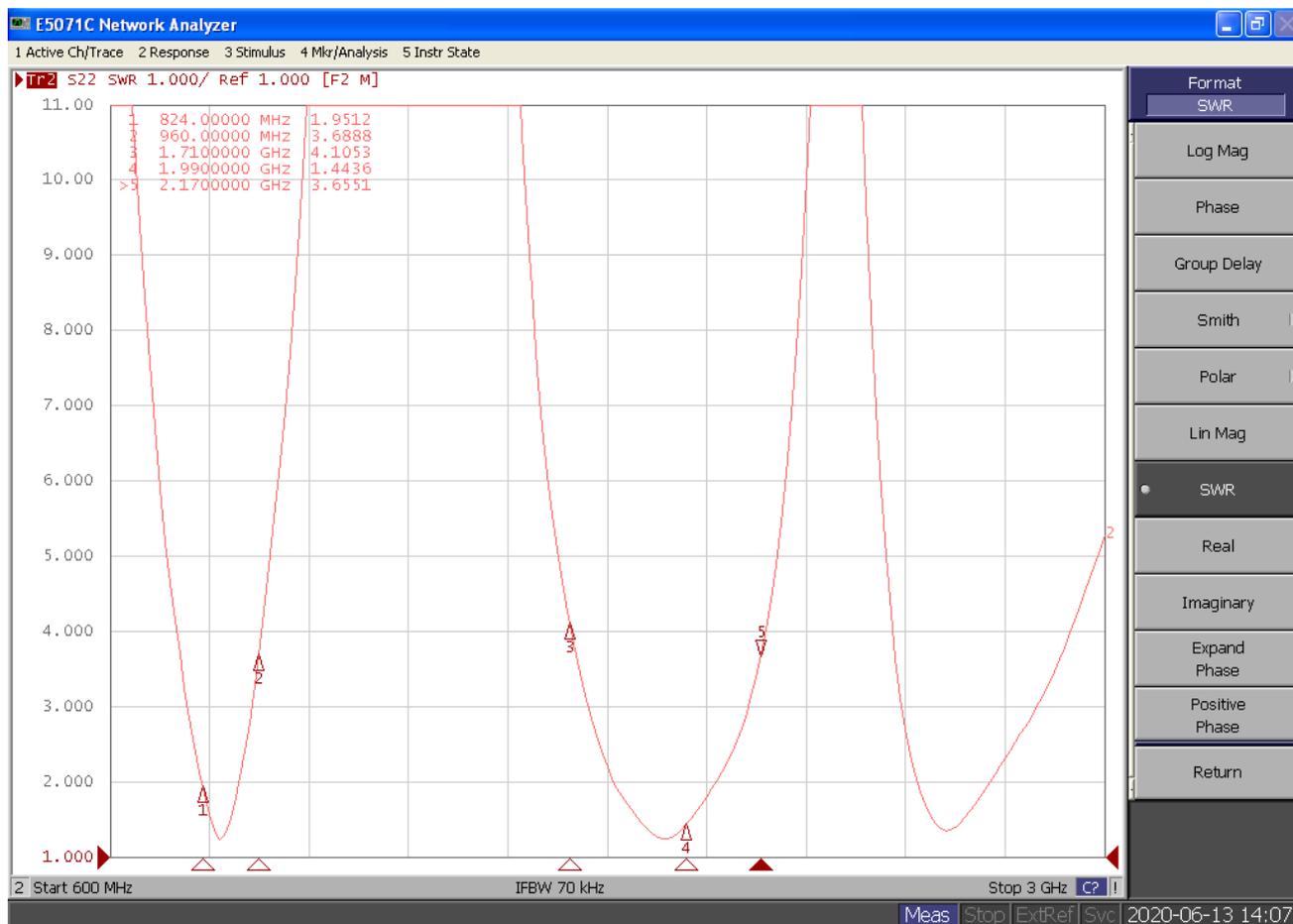
Antenna Size (mm)	50x \varnothing 10
Casing	ABS
Radiator	Cu
Connect Type	SMA-JW
Working Temperature ($^{\circ}\text{C}$)	-20 to +80
Radome Color	Black

4 Overall Performance

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

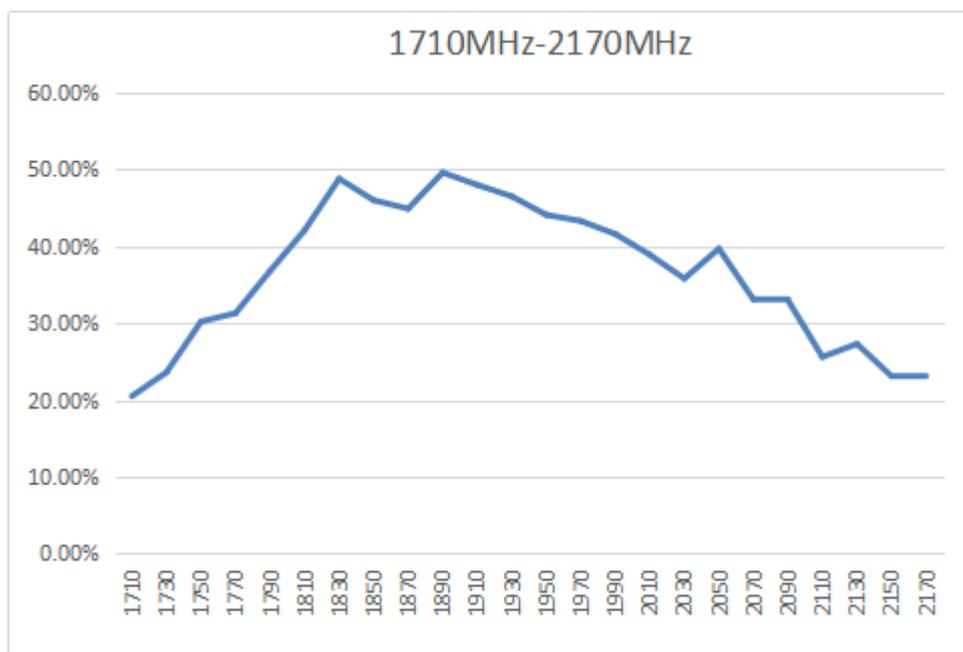
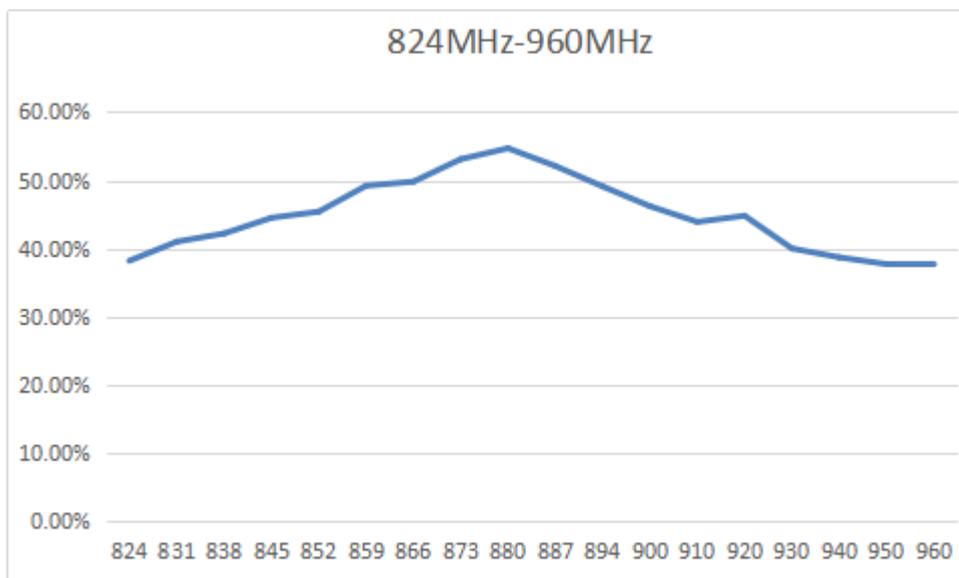


● VSWR



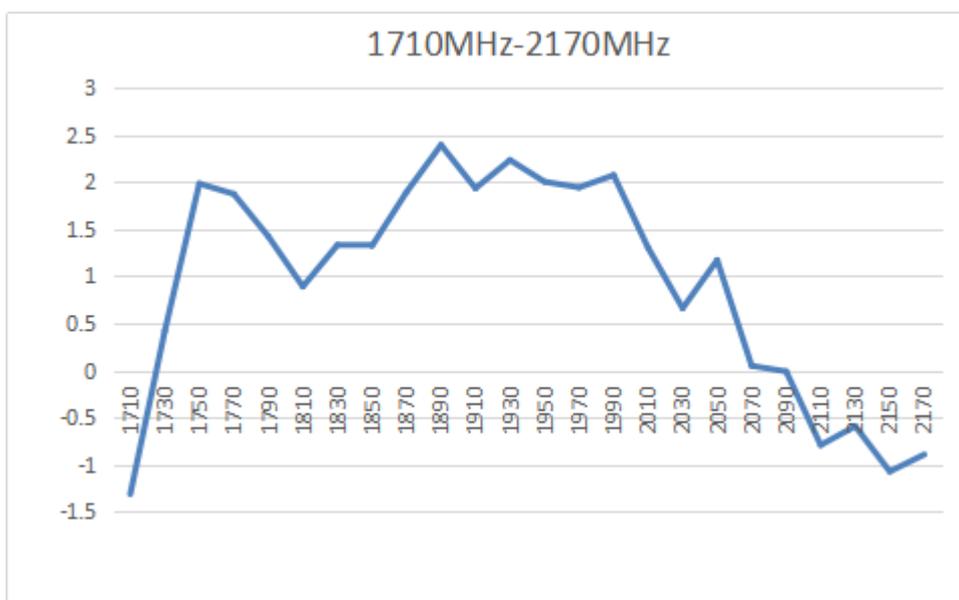
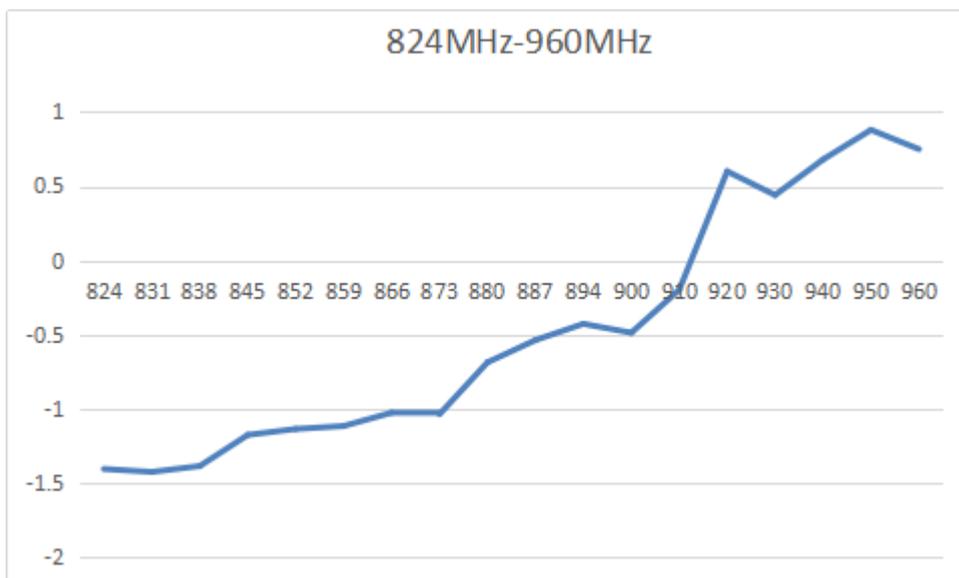
Frequency (MHz)	824	960	1710	1990	2170
VSWR	1.95	3.69	4.10	1.44	3.66

- Efficiency



Frequency (MHz)	824	960	1710	1990	2170
Eff. (%)	38.2	37.8	20.5	41.6	23

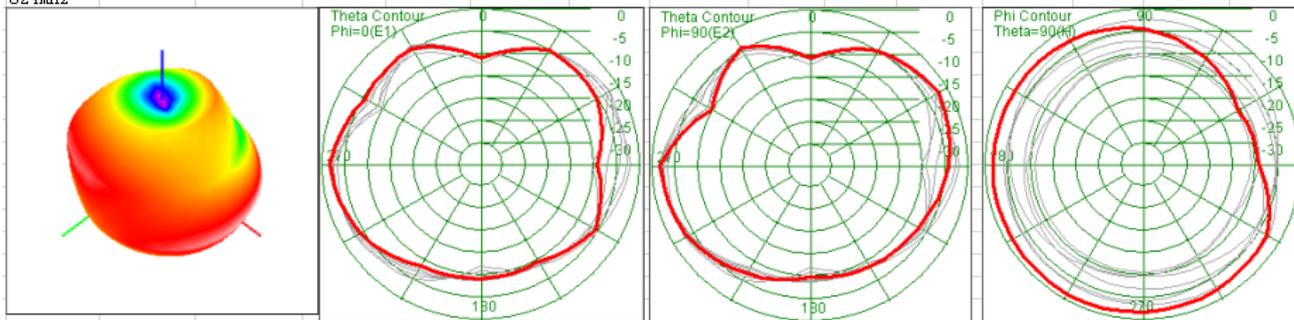
● Gain



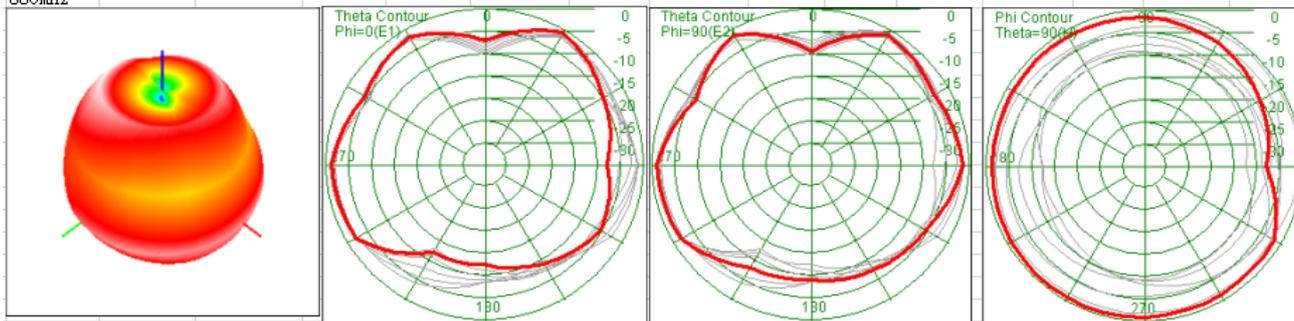
Frequency (MHz)	824	960	1710	1990	2170
Gain. (dBi)	-1.41	0.75	-1.31	2.07	-0.89

● Radiation Patterns

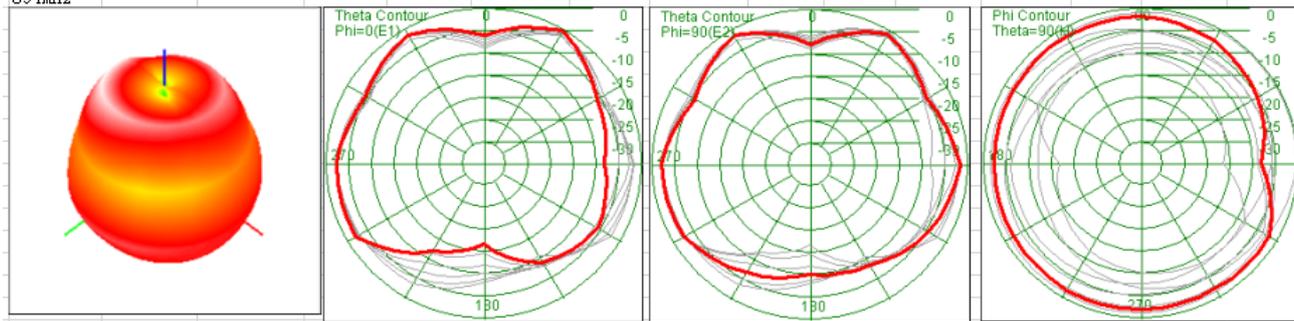
824MHz



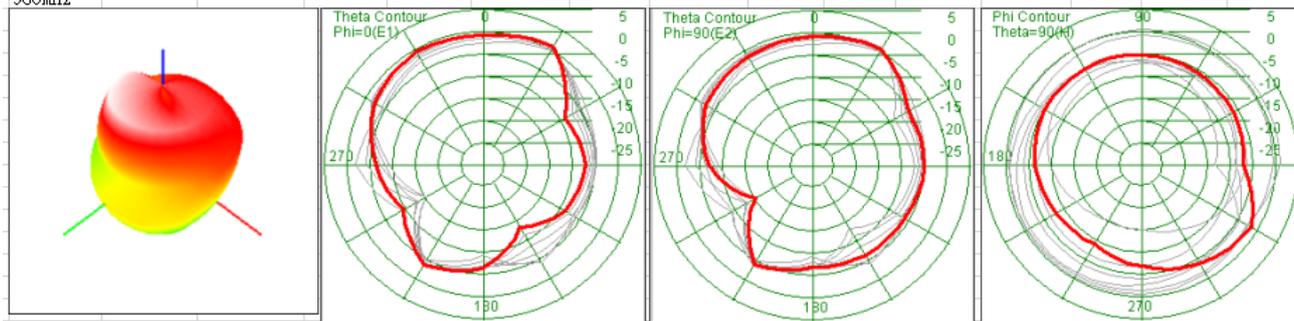
880MHz



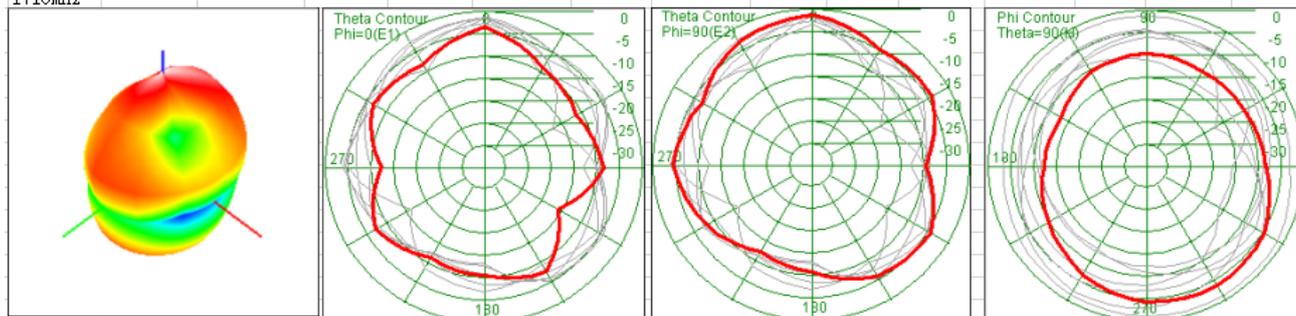
894MHz



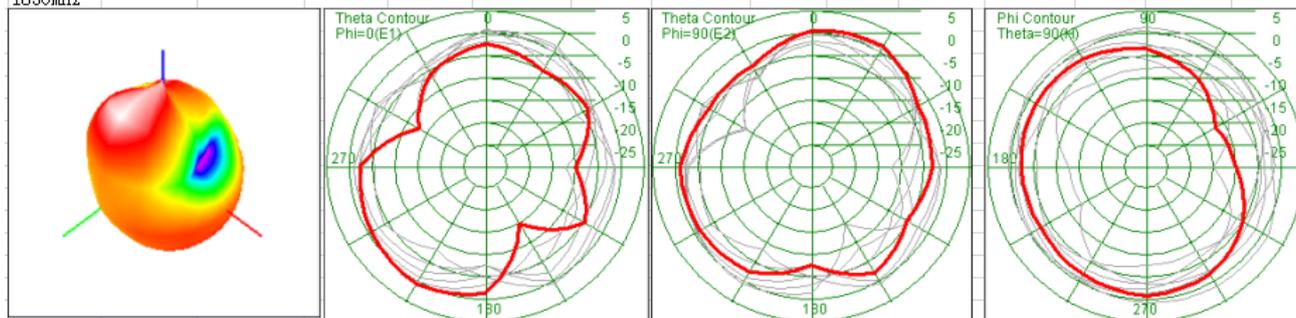
960MHz



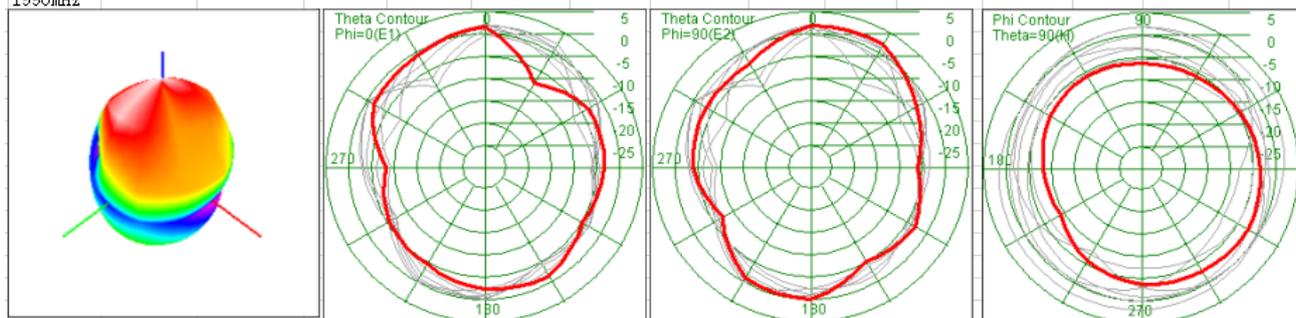
1710MHz



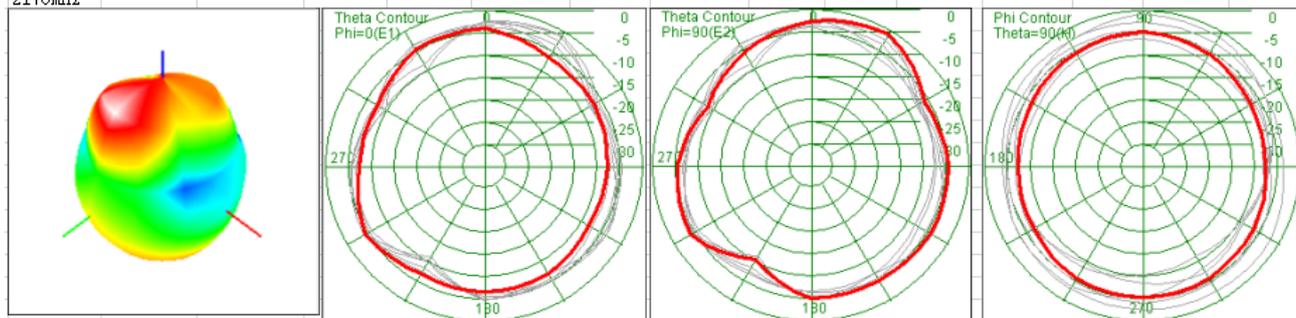
1850MHz



1990MHz



2170MHz



5 Product Size

