

Antenna YF0004AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-06-15	Kenny YIN	Initial
2.0	2020-07-16	Kenny YIN	Updated the specifications.
2.1	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

- Cellular LTE
- High efficiency
- Excellent performance





3 Product Specifications

Passive Electrical Specifications					
Frequency Range	824–960 MHz/1710–2690 MHz				
Input Impendence	50 Ω				
VSWR	≤4.5				
Gain	≤ 5 dBi				
Polarization Type	Linear				
Mechanical Specifications					
Antenna Size	87.17 mm × 20 mm				
Casing	/				
Radiator	Cuprum				
Connect Type	IPEX 1				
Working Temperature	-20 °C to +80 °C				
Radome Color	Black				



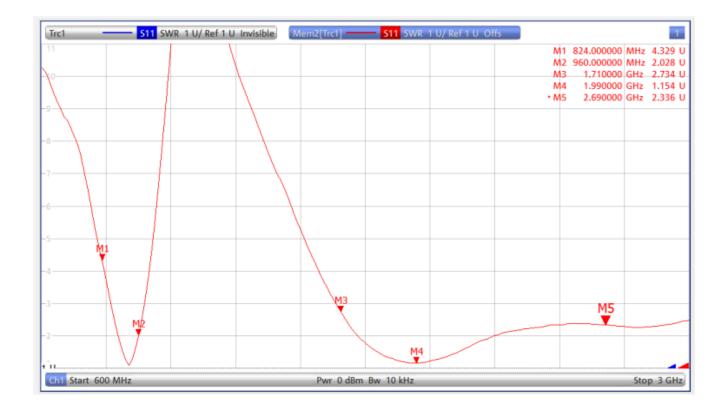
4 Overall Performance

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



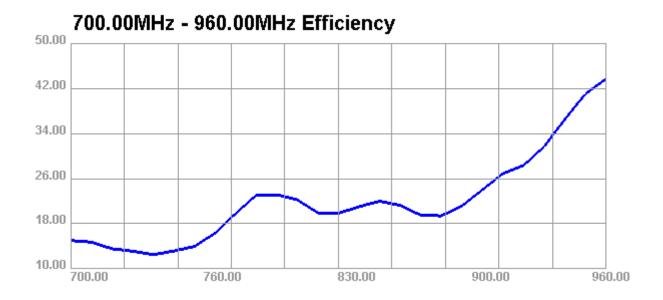


• VSWR

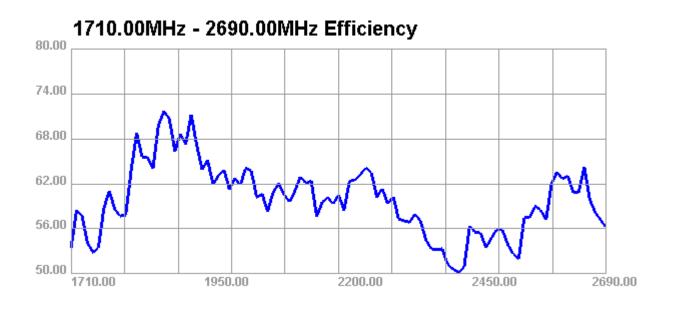


Frequency(MHz)	824	960	1710	1990	2690
VSWR	4.32	2.02	2.73	1.15	2.33

• Efficiency

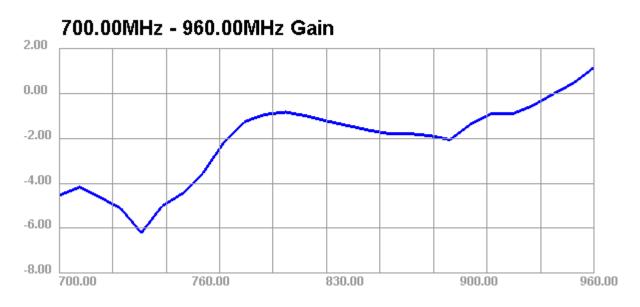




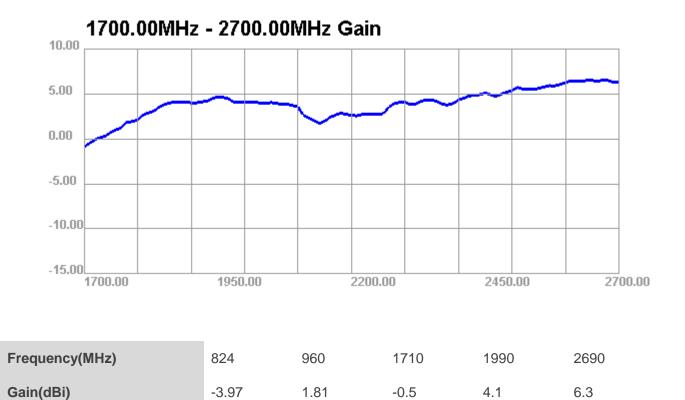


Frequency(MHz)	824	960	1710	1990	2690
Efficiency(%)	20.1%	43.7%	53.5%	63.9%	56.2%

Gain

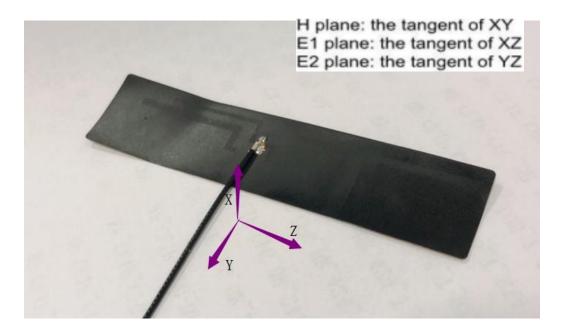


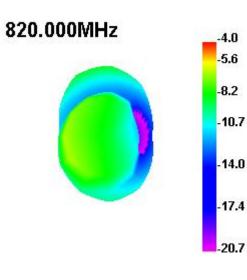


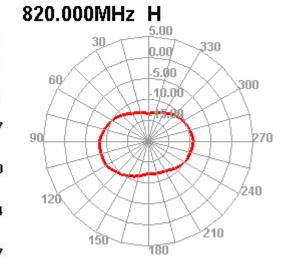


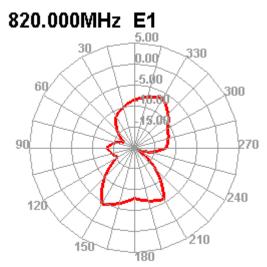


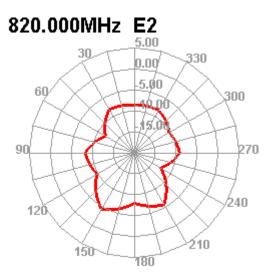
Radiation Patterns



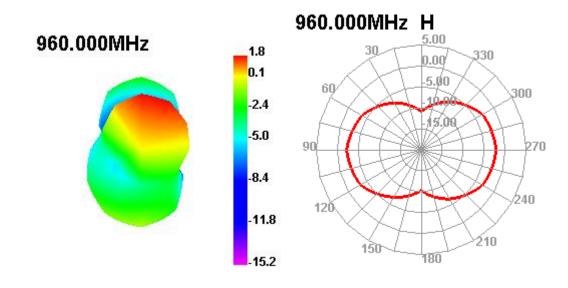


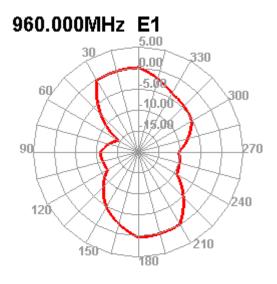


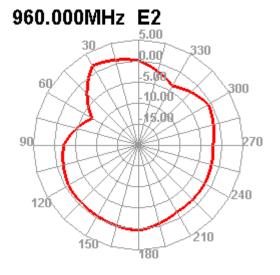




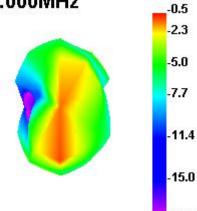


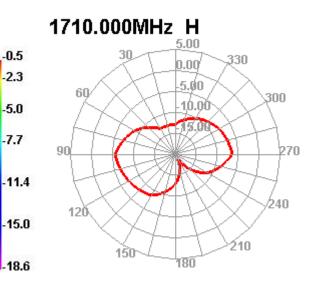




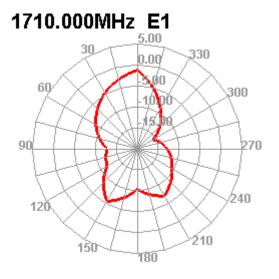


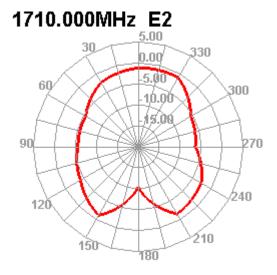
1710.000MHz











1990.000MHz

4.1

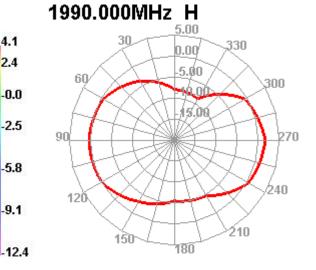
2.4

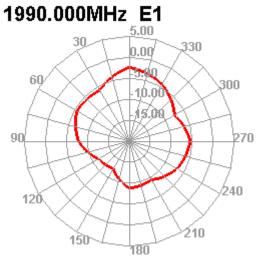
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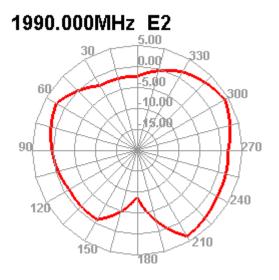
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-5.8

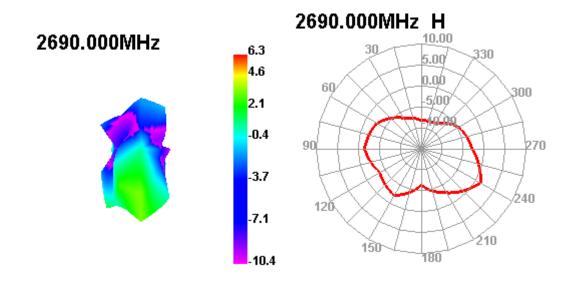
-9.1

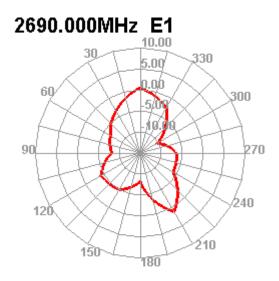


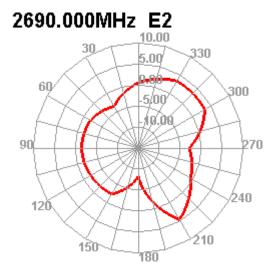














5 Product Size

