

Antenna YE0010AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-06-04	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

- Cellular LTE
- High efficiency
- Excellent performance



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3 Product Specifications

Passive Electrical Specifications							
Frequency Range (MHz)	698–2700						
Input Impendence (Ω)	50						
VSWR	≤ 3.0						
Gain (dBi)	≤ 3						
Polarization Type	Linear						
Mechanical Specifications							
Antenna Size (mm)	152 × 18 × 5.9						
Casing	PC + ABS						
Radiator	Cuprum						
Connect Type	SMA (Male pin with internal thread)						
Working Temperature (°C)	-20 to +80						
Radome Color	Black						

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4 Overall Performance

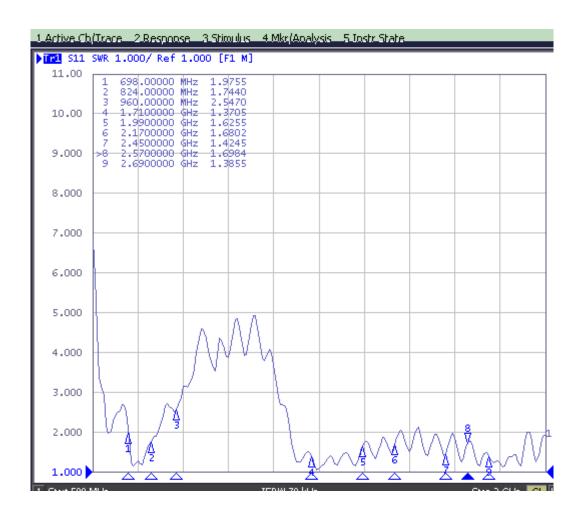
- Test Environment
 - KEYSIGHT VNA Network Analyzer E5063A 100 kHz 6.5 GHz.
 - RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 6.0 GHz.



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VSWR

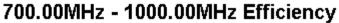


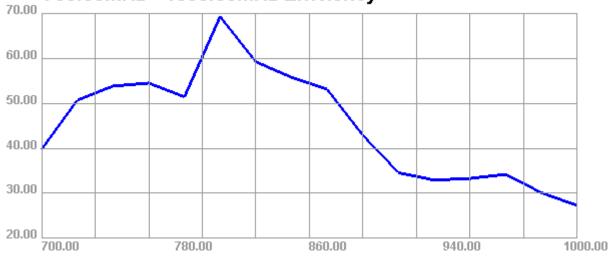
Frequency (MHz)	698	824	960	1710	1990	2170	2450	2570	2690
VSWR	1.98	1.74	2.54	1.37	1.62	1.68	1.42	1.70	1.39

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Efficiency

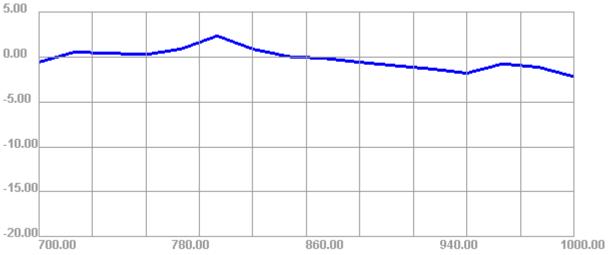




1700.00MHz - 2700.00MHz Efficiency

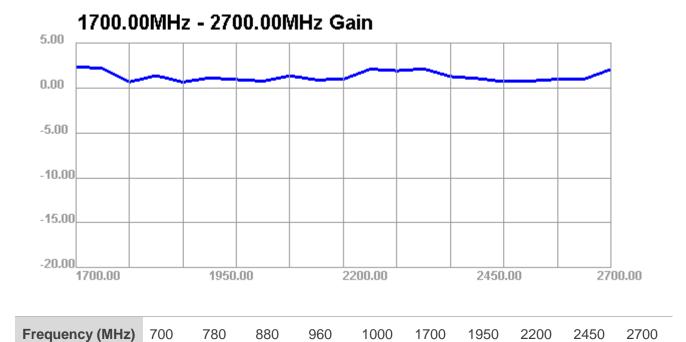


700.00MHz - 1000.00MHz Gain



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Gain

Efficiency (%)

Frequency (MHz)	700	780	880	960	1000	1700	1950	2200	2450	2700
Gain	-0.6	0.88	-0.6	-0.77	-2.2	2.37	1.11	0.97	1.27	2.08

960

34.22

1000

27.31

1700

62.34

1950

50.68

2200

38.57

2450

43.15

2700

61.49

780

51.45

39.82

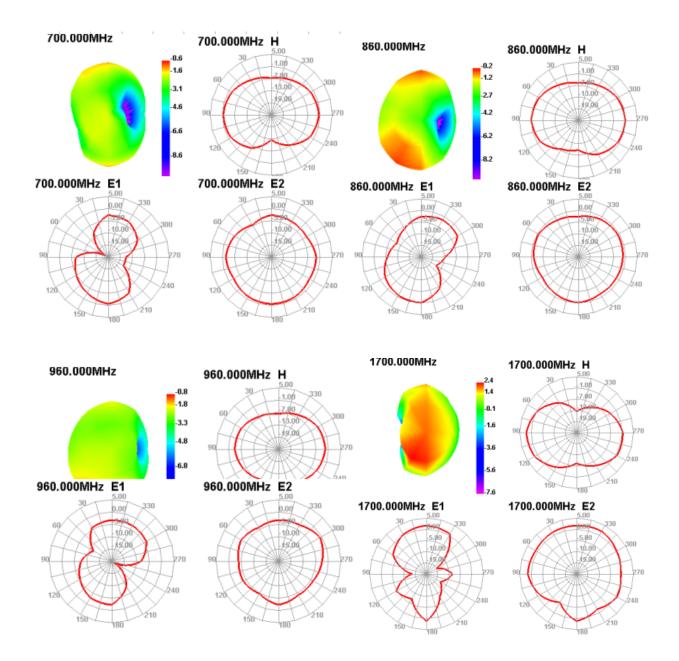
880

42.88

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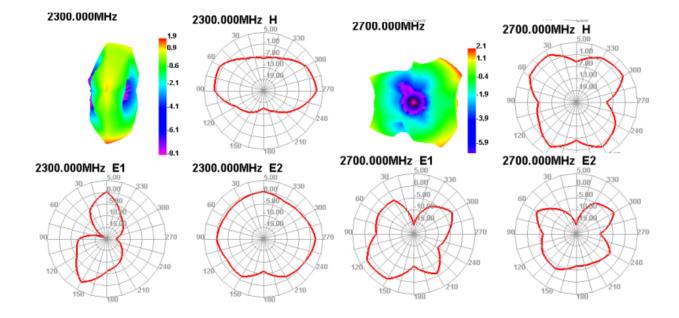


Radiation Patterns



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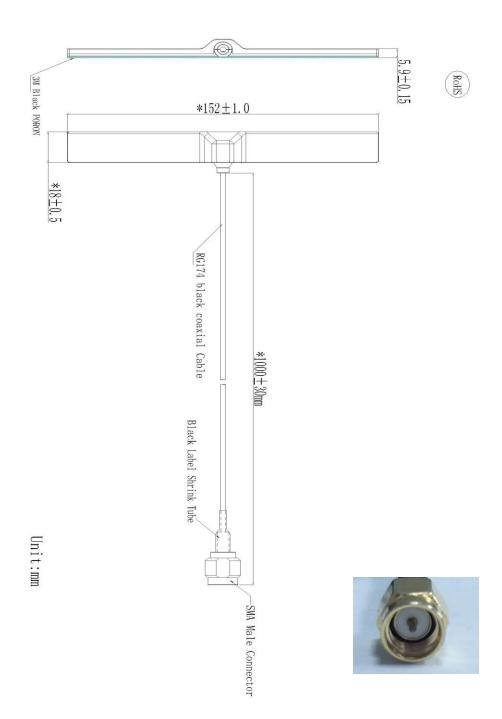




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5 Product Size



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