

Antenna

YE0012AA Datasheet

OC: YE0012AA



Version	Date	Author	Note
1.0	2020-06-30	Kenny YIN	Initial
2.0	2020-07-03	Kenny YIN	

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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 Impedance	50 Ω
VSWR	≤ 2.0
Gain	≤ 4 dBi
Polarization Type	Linear

Mechanical Specifications

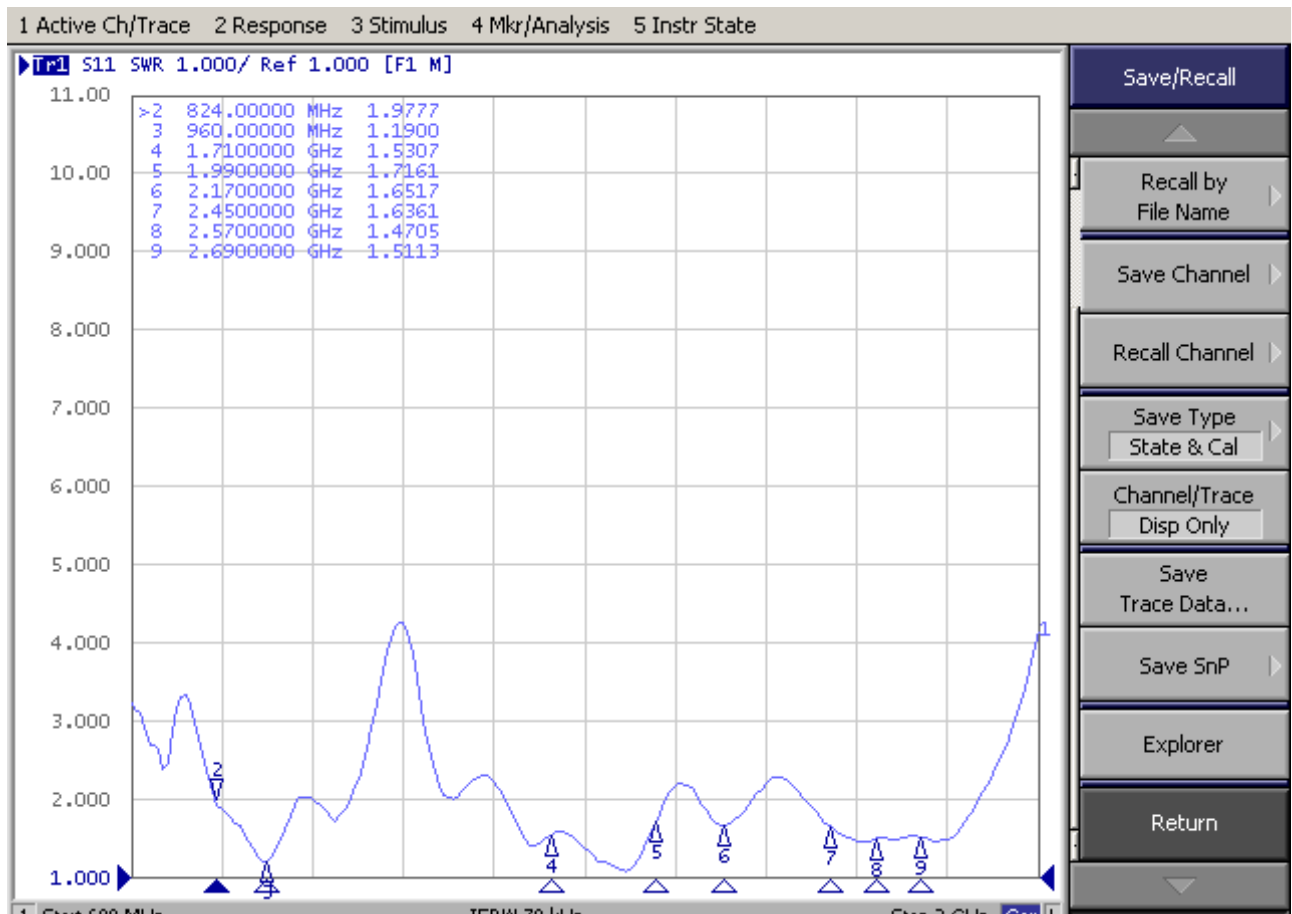
Antenna Size	116.5 mm x 21.7 mm x 5.6 mm
Casing	ABS + PC
Radiator	Cuprum
Connect Type	SMA (Male pin with internal thread)
Working Temperature	-20 °C to +80 °C
Radome Color	Black

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.



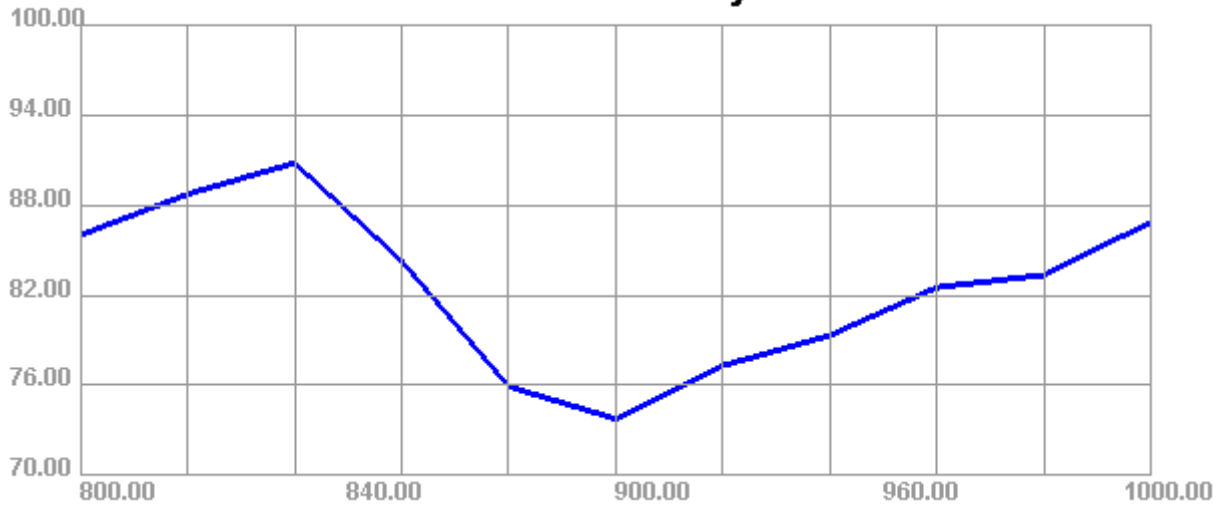
● VSWR



Frequency (MHz)	824	960	1710	1990	2170	2450	2570	2690
VSWR	1.98	1.19	1.53	1.72	1.65	1.64	1.47	1.51

- Efficiency

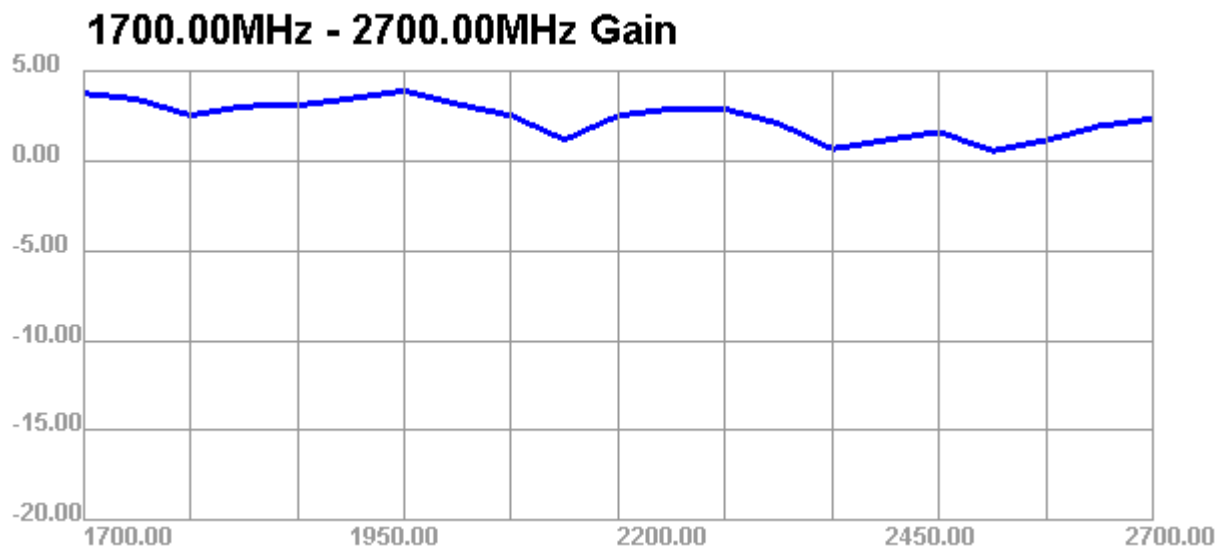
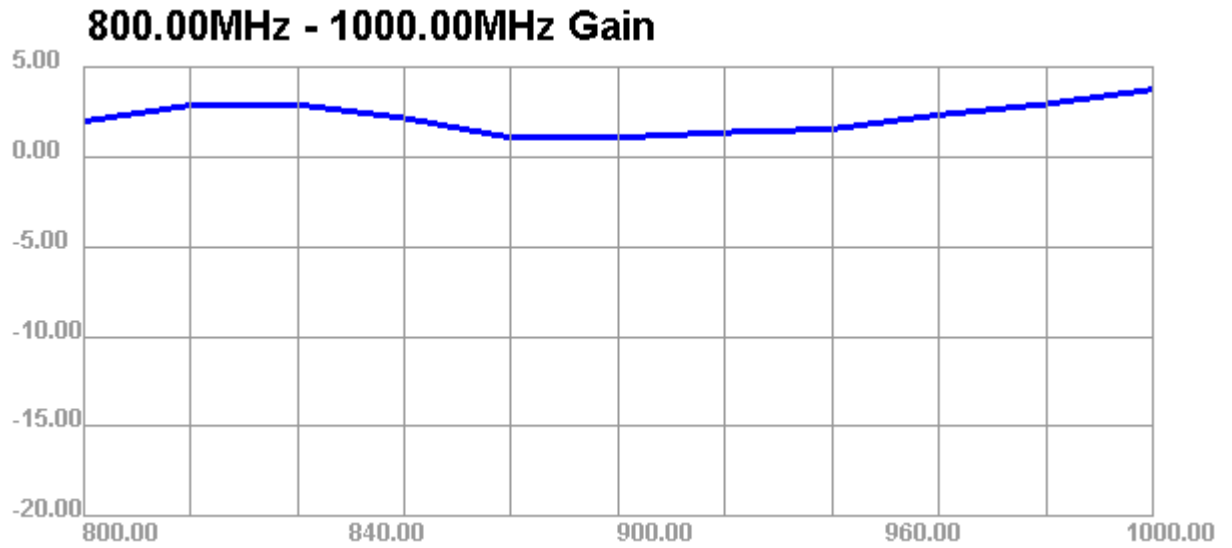
800.00MHz - 1000.00MHz Efficiency



1700.00MHz - 2700.00MHz Efficiency



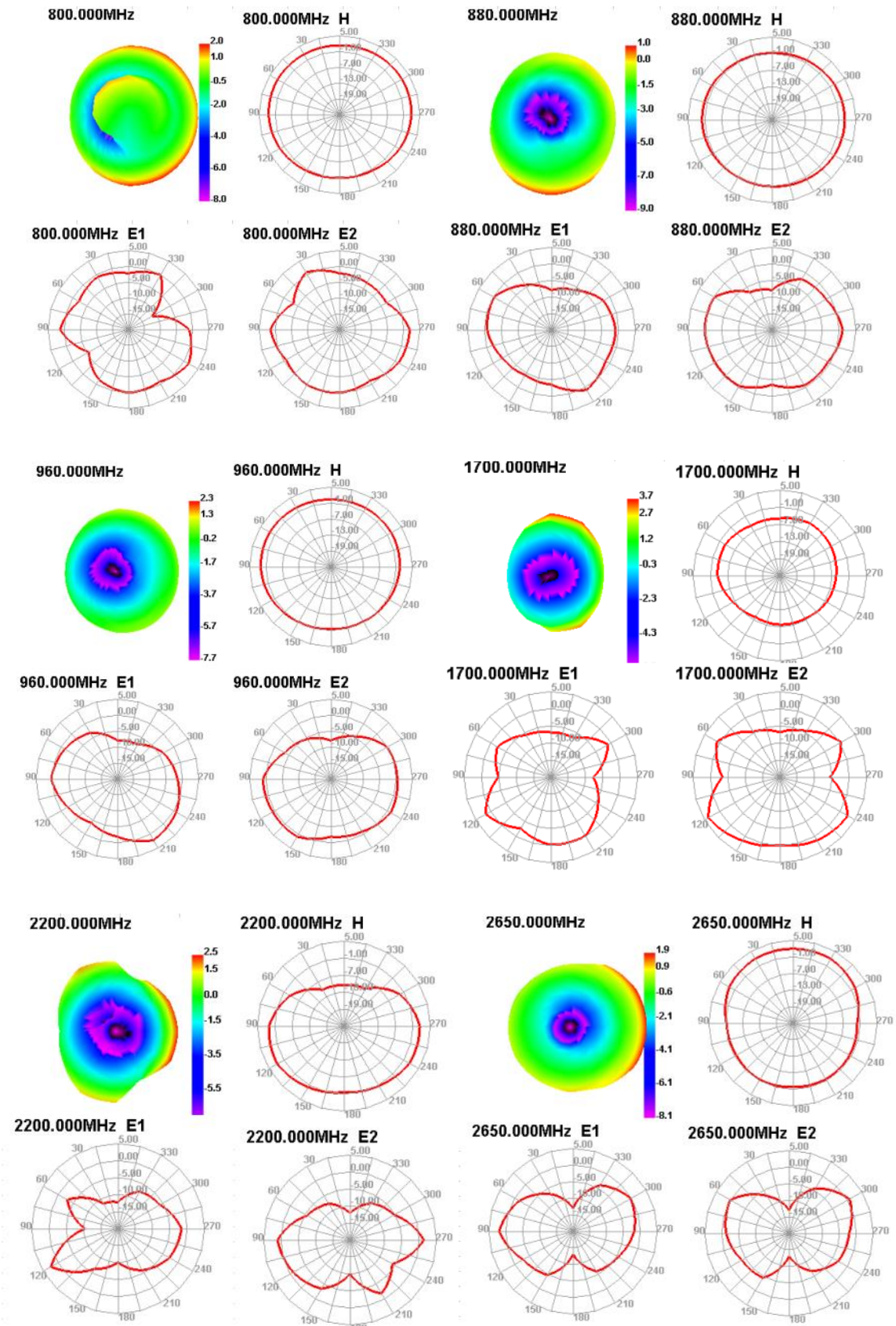
Frequency (MHz)	820	960	1000	1700	1950	2200	2450	2700
Efficiency (%)	88.73	82.53	86.88	79.29	66.73	55.11	49.81	75.43



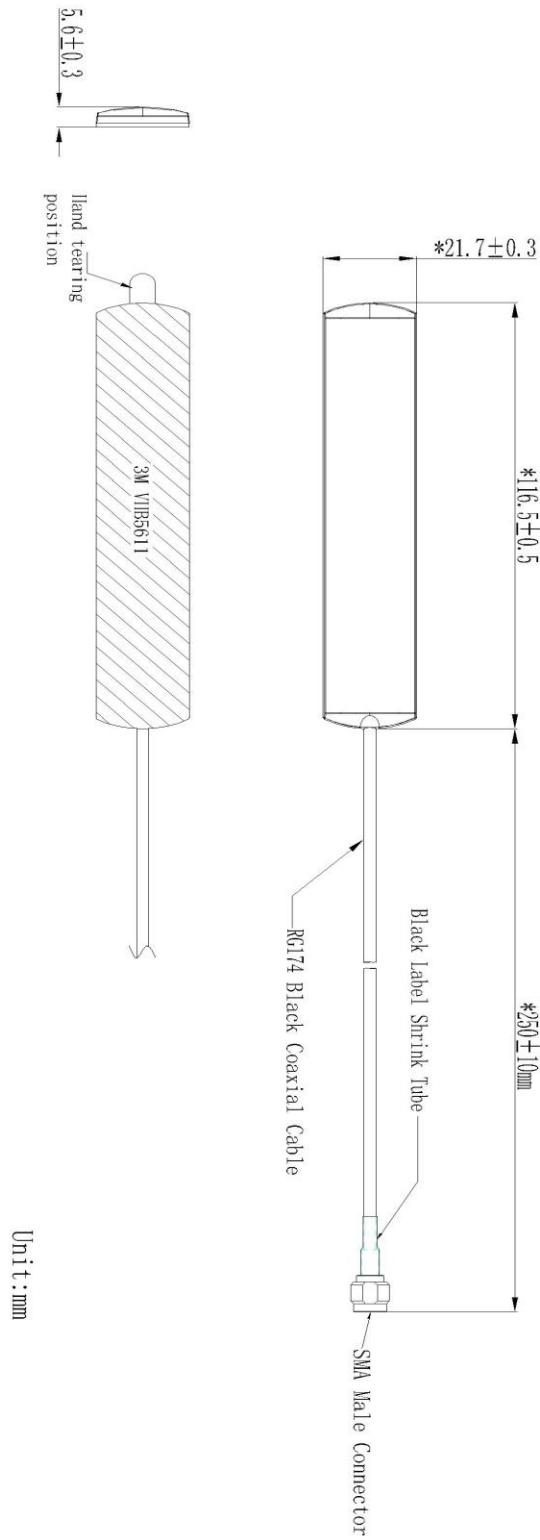
- Gain

Frequency (MHz)	820	960	1000	1700	1950	2200	2450	2700
Gain	2.85	2.33	3.74	3.74	3.45	2.51	1.14	2.33

● Radiation Patterns



5 Product Size



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