

Antenna YE0021CA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2021-08-13	Kenny YIN/ Riona HAN	Creation of the document
1.0	2021-08-13	Kenny YIN/ Riona HAN	First official release

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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

- 4G sucker antenna
- High efficiency
- Excellent performance





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3 Product Specifications

Passive Elec	trical Spe	ecifications	;									
Frequency Ra	ange			690–96	690–960 MHz, 1710–2690 MHz							
Input Impende	ence			50 Ω	50 Ω							
VSWR				≤ 6.43	≤ 6.43							
Gain				≤ 2.94 c	ЯВі							
Polarization T	ype			Vertical								
Detailed Pass	ive Elect	rical Specit	fications									
Frequency Range (MHz)	698–960	1176–1280	1400–1610	1710–2170	2170–2690	3300–4000	4000–5000	5000–6000				
VSWR (Max.)	4.01	-	-	6.43	3.96	-	-	-				
Average Efficiency (%)	60	-	-	52	41	-	-	-				
Max. Peak Gain (dBi)	1.25	-	-	2.94	2.6	-	-	-				
Mechanical S	Specificat	tions										
Antenna Size					112 mm x 29.8 mm RG174 Cable Length = 2000 mm							
Casing				ABS								
Connector Type					SMA Male (Center Pin)							
Working Temperature					-20 °C to +60 °C							
Radome Color					Black							
Mounting Typ	е			Magnet	Magnet							
IP Rating					IP65							

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4 Overall Performance

4.1. Test Environment

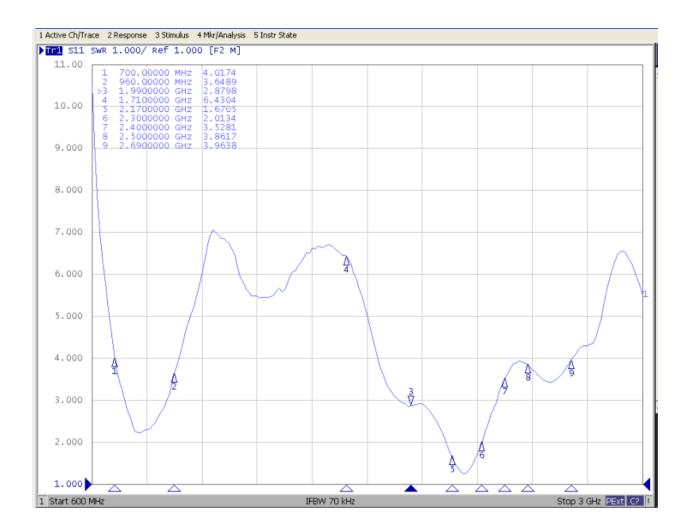
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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4.2. **VSWR**

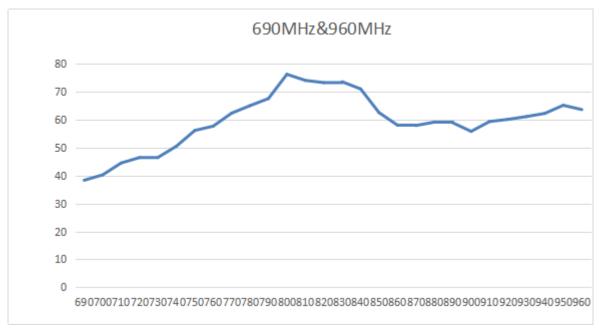


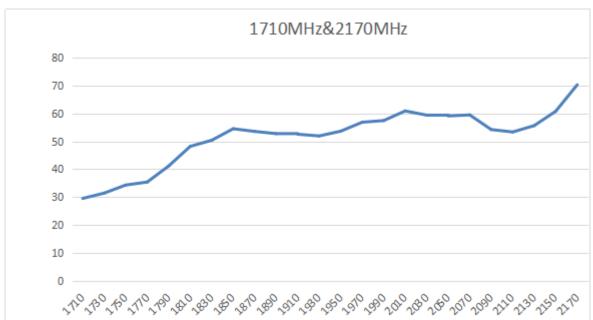
Frequency (MHz)	700	960	1710	1990	2170	2300	2400	2690
VSWR	4.01	3.65	6.43	2.88	1.67	2.01	3.53	3.96

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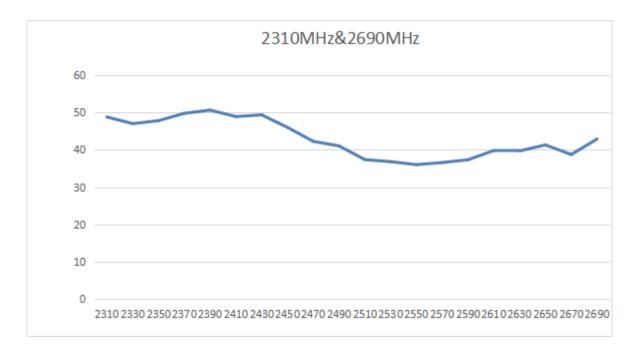
4.3. Efficiency





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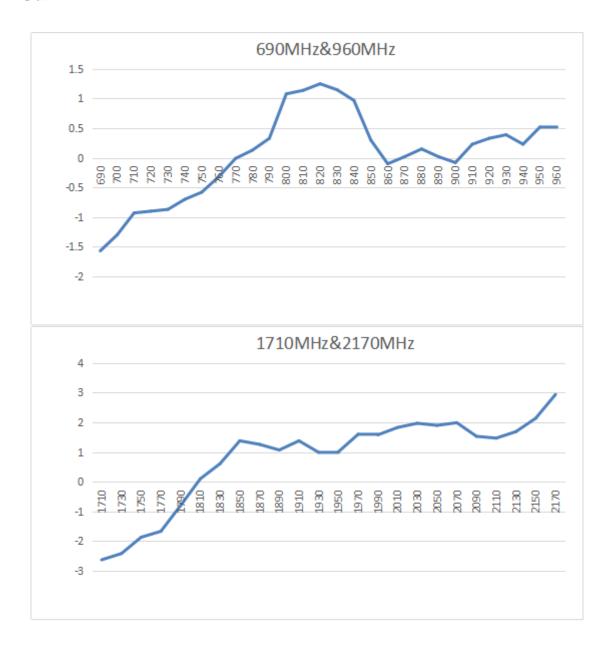


Frequency (MHz)	690	790	820	960	1710	2170	2310	2410	2690
Efficiency (%)	68.31	67.54	73.22	63.58	29.57	70.21	48.83	48.93	42.91

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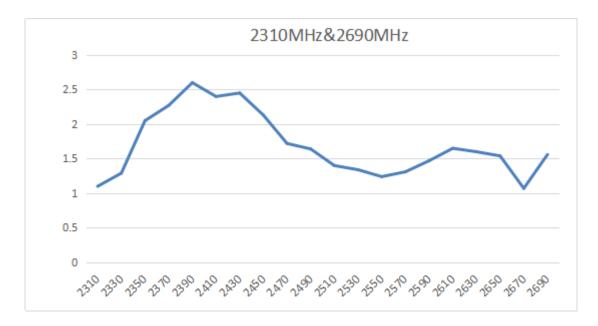


4.4. Gain



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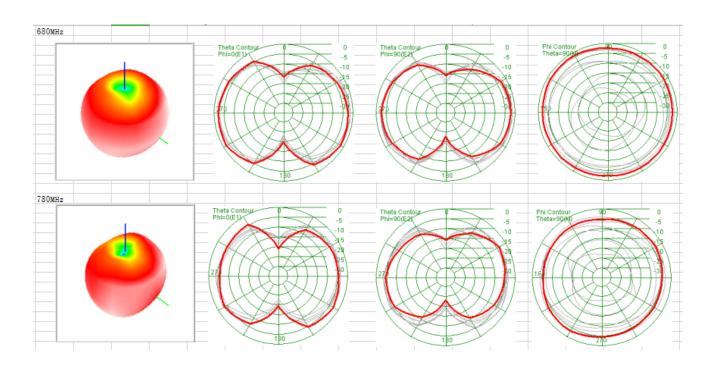
Frequency (MHz)	690	790	820	960	1710	2170	2310	2410	2690
Gain (dBi)	-1.57	0.33	1.25	0.52	-2.63	2.94	1.1	2.4	1.56

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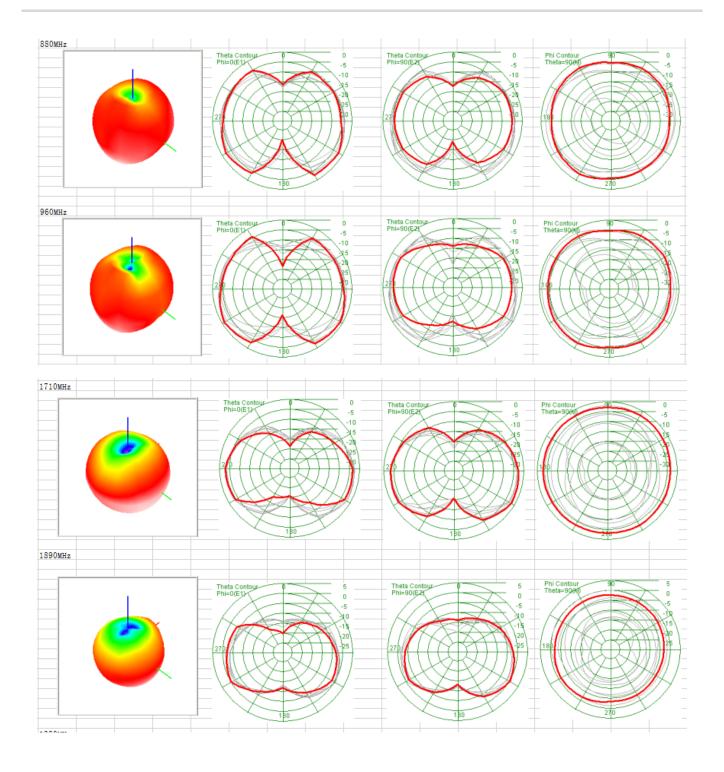
4.5. Radiation Pattern





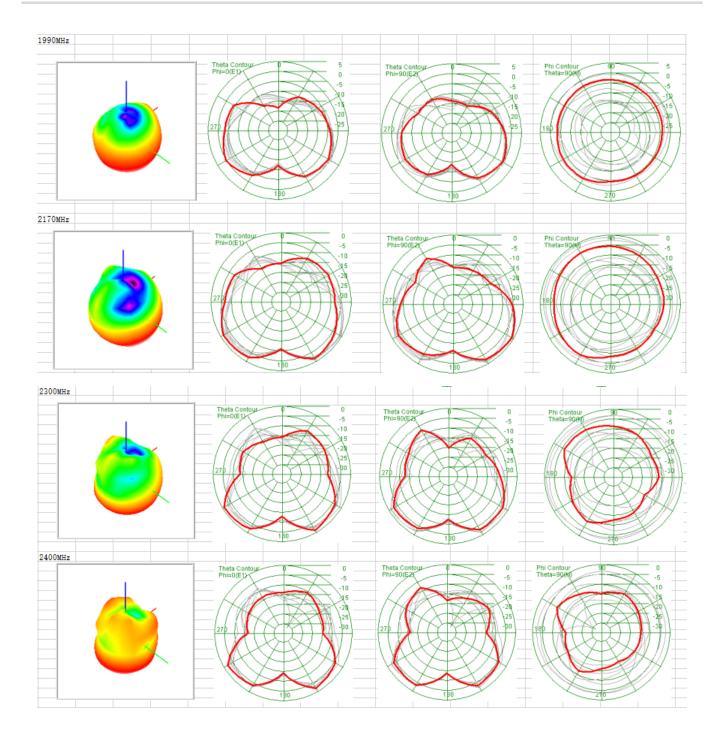
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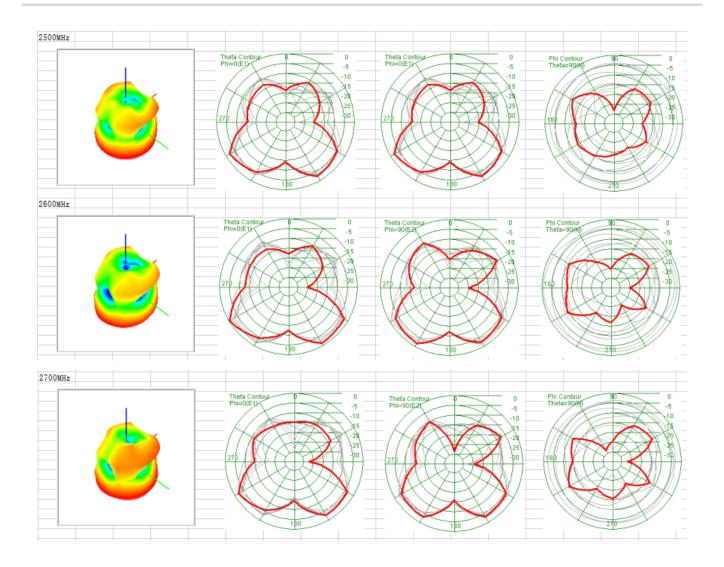
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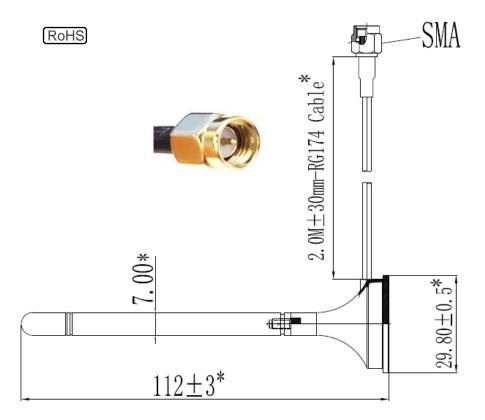




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5 Product Size



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