

Antenna YECT003AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note			
-	2021-06-02	Kenny YIN/ Aria CHU	Creation of the document			
1.0	2021-06-02	Kenny YIN/ Aria CHU	First official release			
1.1	2021-07-25	Kenny YIN/ Aria CHU	 Updated working temperature (Chapter 3). Added detailed passive electrical specifications (Chapter 3). 			

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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 4G
- High efficiency
- Excellent performance



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3 Product Specifications

Passive Electi	rical Spe	cifications							
Frequency Range				690–2690 MHz					
Input Impendence				50 Ω					
VSWR				≤ 4.0					
Gain				≤ 2.5 dBi					
Polarization Type				Linear					
Detailed Pass	ive Elect	rical Speci	fications						
Frequency Range (MHz)	698–960	1176–1280	1400–1610	1710–2170	2170–2690	3300–4000	4000–5000	5000–6000	
VSWR (Max.)	3.69	-	-	2.81	1.61	-	-	-	
Average Efficiency (%)	25	-	-	51	40	-	-	-	
Max. Peak Gain (dBi)	-1.61	-	-	0.21	2.5	-	-	-	
Mechanical Sp	oecificati	ons							
Antenna Size			113 m	m x Ф 10 m	m				
Casing				TPEE					
Connector Type			SMA N	SMA Male (Center Pin)					
Working Temperature			-40 °C	-40 °C to +85°C					
Radome Color			Black	Black					

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4 Overall Performance

4.1. Test Environment

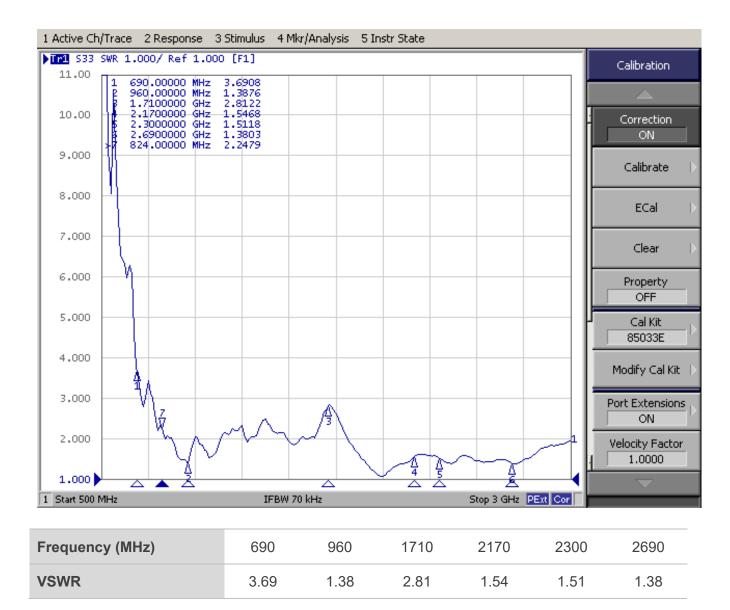
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone®2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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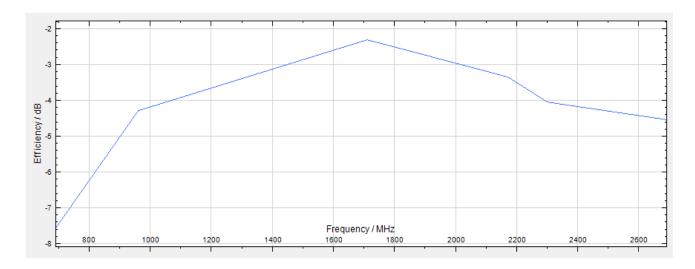
4.2. VSWR



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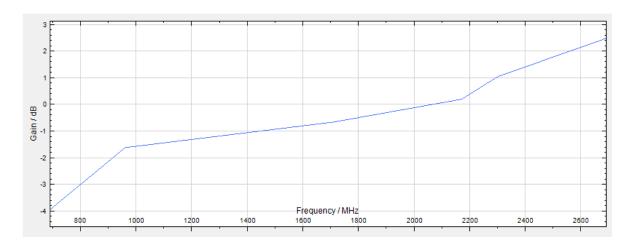


4.3. Efficiency



Frequency (MHz)	690	960	1710	2170	2300	2690
Efficiency (%)	17.58	37.33	58.88	46.34	39.45	35.24

4.4. Gain



Frequency (MHz)	690	960	1710	2170	2300	2690
Gain (dBi)	-3.94	-1.61	-0.65	0.21	1.06	2.5

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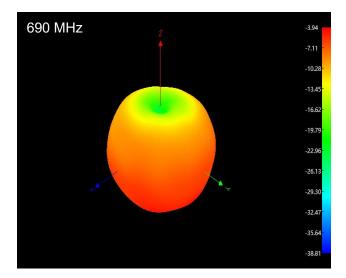


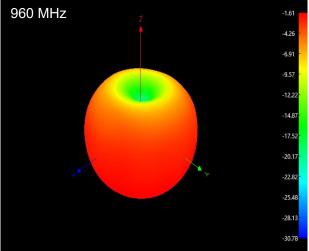
4.5. Radiation Pattern

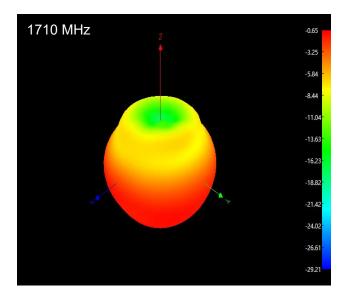


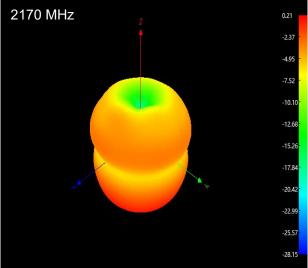
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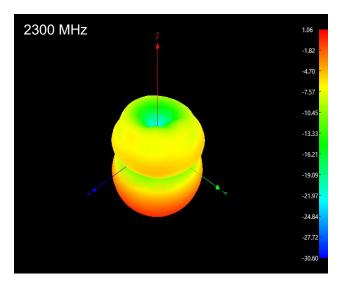


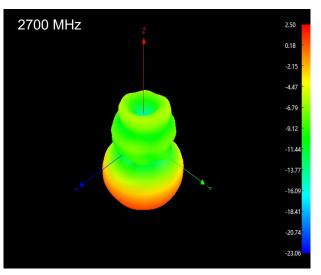






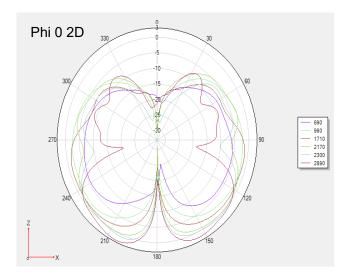


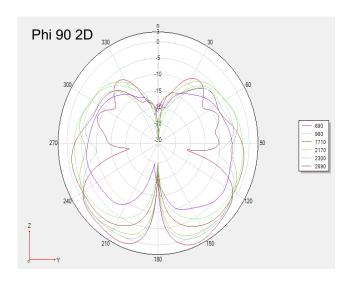


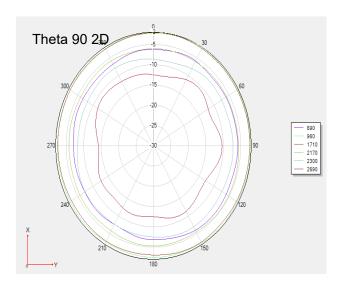


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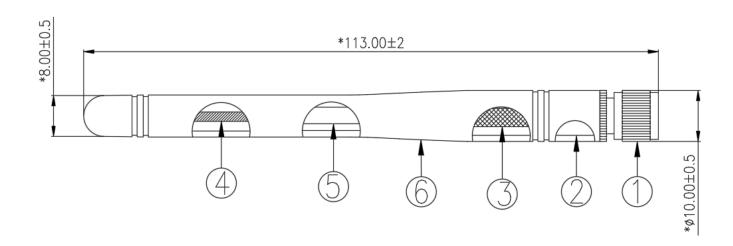


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5 Product Size

RoHS





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