

Antenna YRM00A2BA Datasheet

Antenna Services

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Status: Preliminary



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About the Document

Revision History

Version	Date	Author	Note
-	2022-04-11	Qinming Peng/ Jason Long	Creation of the document
1.0	2022-04-11	Qinming Peng/ Jason Long	First official release

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1 Product Description

This Quectel embedded 4G FPC antenna covers main 4G LTE bands and is compatible with 3G/2G/LPWA bands. Featuring high efficiency and gain, it is an ideal antenna for a smooth and stable connection with high-efficiency data transmission even under the influence of the device's internal structure. Ground plane independent, it's designed to be mounted directly to the underside of either a plastic or non-metallic enclosure. Ease of integration with a cable and connector which can be customized to meet your product design and RF module.

2 Product Features

- Cellular 4G DIV
- High efficiency
- Excellent performance

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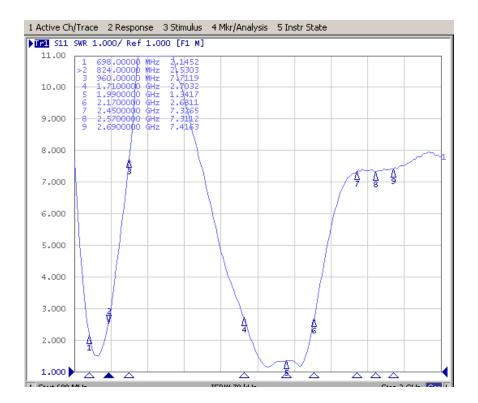
3 Product Specifications

Passive Electrical Specific	ations	
Frequency Range		700MHz-900MHz; 1710MHz-2200 MHz
Input Impendence		50 Ω
VSWR		≤ 8.0
Gain		≤ 2 dBi
Polarization Type		Linear
Detailed Passive Electrica	l Specifications	s
Frequency Range (MHz)	700-900	1710–2200
VSWR (Max.)	7.71	2.58
Average Efficiency (%)	43	40.95
Max. Peak Gain (dBi)	0.89	1.48
Mechanical Specifications		
Antenna Size		53.48mm × 26.47 mm
Casing		FPC
Working Temperature		-40 °C to +85 °C
Weight		g
Radome Color		Black
Mounting Type		Adhesive

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4.2. **VSWR**

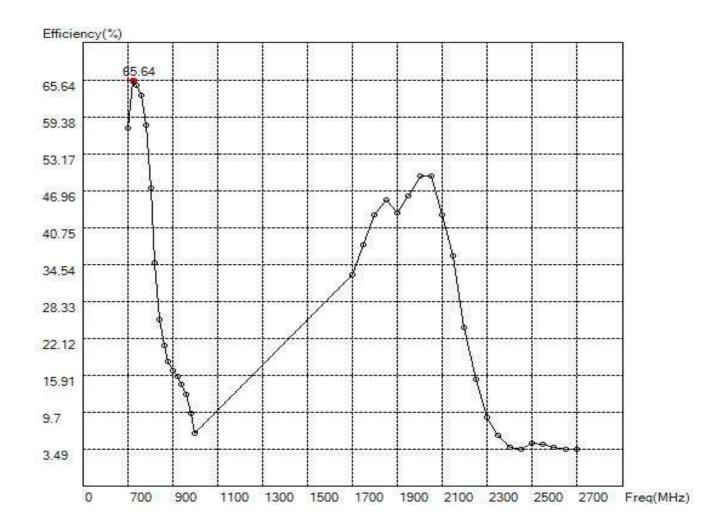


Frequency (MHz)	698	824	960	1710	1990	2170	2450	2570	2690
VSWR	2.14	2.53	7.71	2.7	1.34	2.58	7.32	7.31	7.41

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4.3. Efficiency

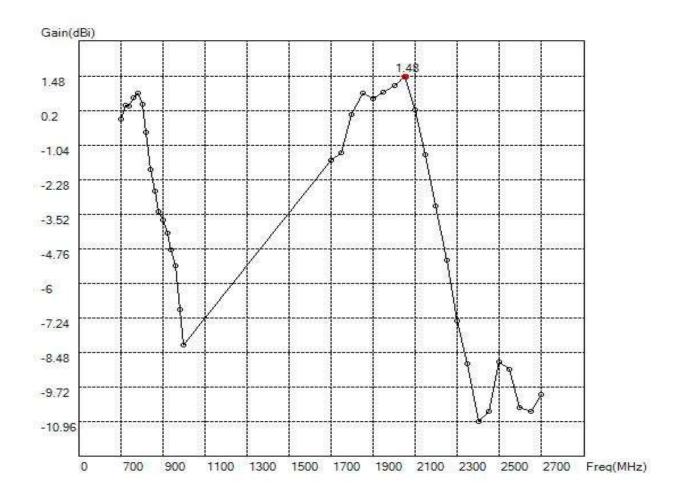


Frequency (MHz)	700	840	960	1700	1950	2150	2200
Efficiency (%)	57.59	25.33	12.71	32.91	46.10	36.03	23.94

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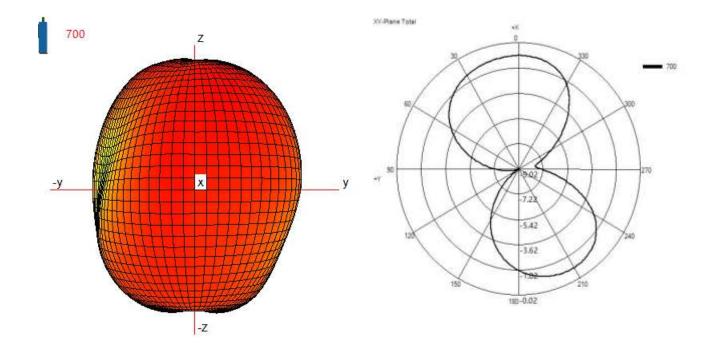
4.4. Gain

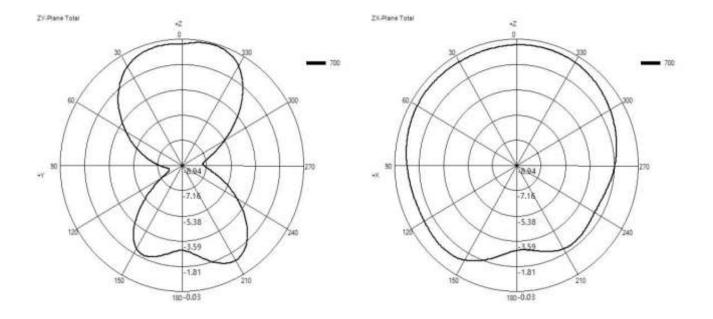


Frequency (MHz)	700	840	960	1700	1950	2150	2200
Gain (dBi)	-0.05	-1.89	-5.34	-1.56	0.93	-1.33	-3.18

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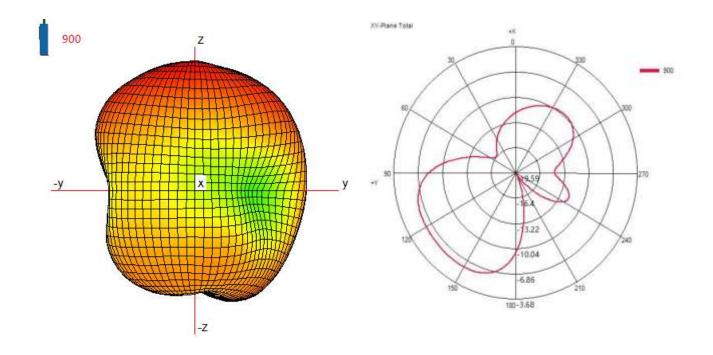


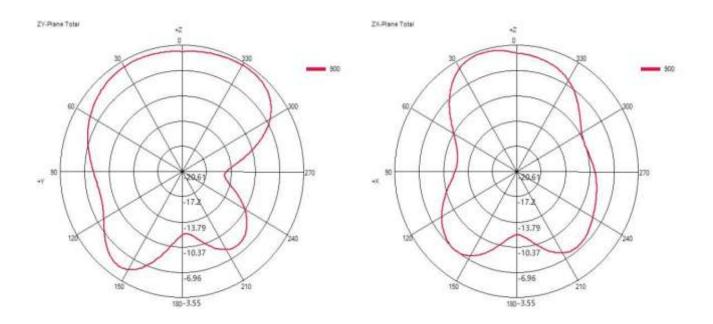




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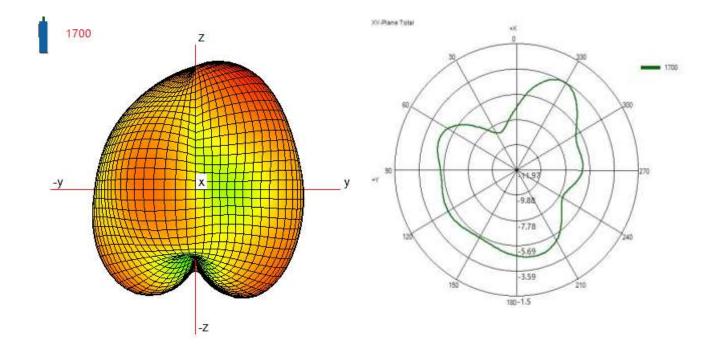


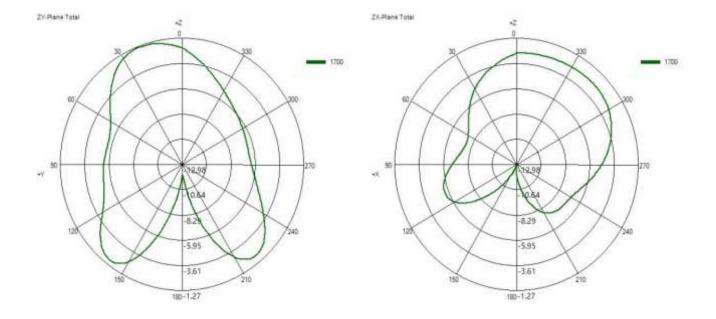




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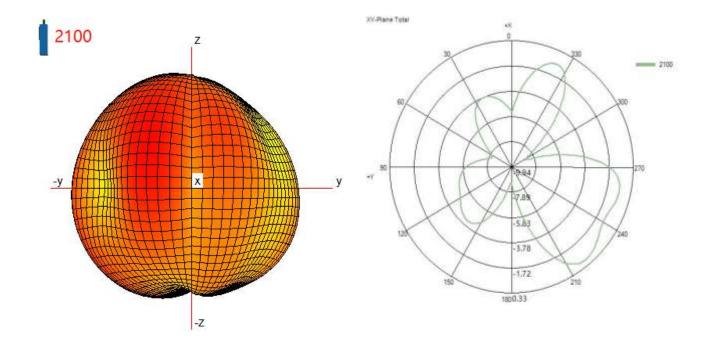


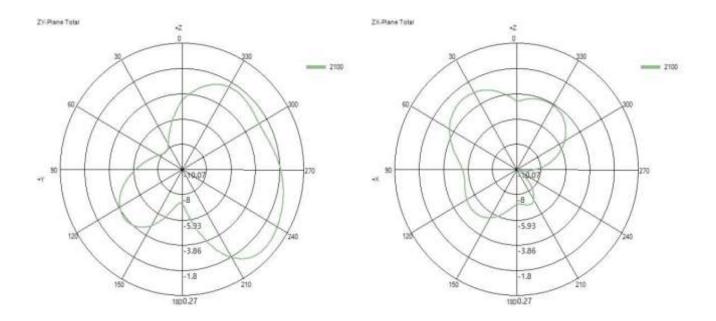




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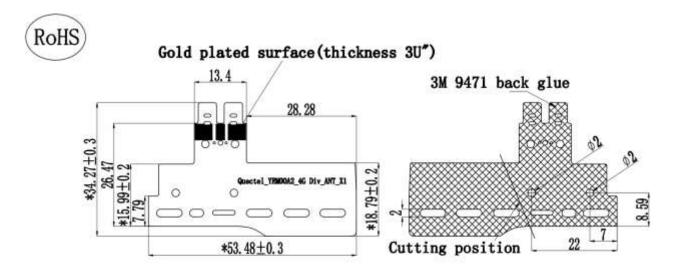




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5 Product Size



Unit:mm

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