



Antenna Datasheet

Product OC: YE0021AA-1RQKHA0A

Version: 1.0

Date: 2025-05-14

Product Name: 4G Magnetic Mount External Monopole Antenna

Key Features:

Frequency Band: 700–960 MHz, 1710–2690 MHz

Dimensions: Φ 29.8 mm \times 109 mm

Efficiency: Up to 27.2 % (MP)

RoHS Compliant

IP65

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1 Specification

Test Condition: On 300 mm × 300 mm Metal Plane

1.1. Electrical

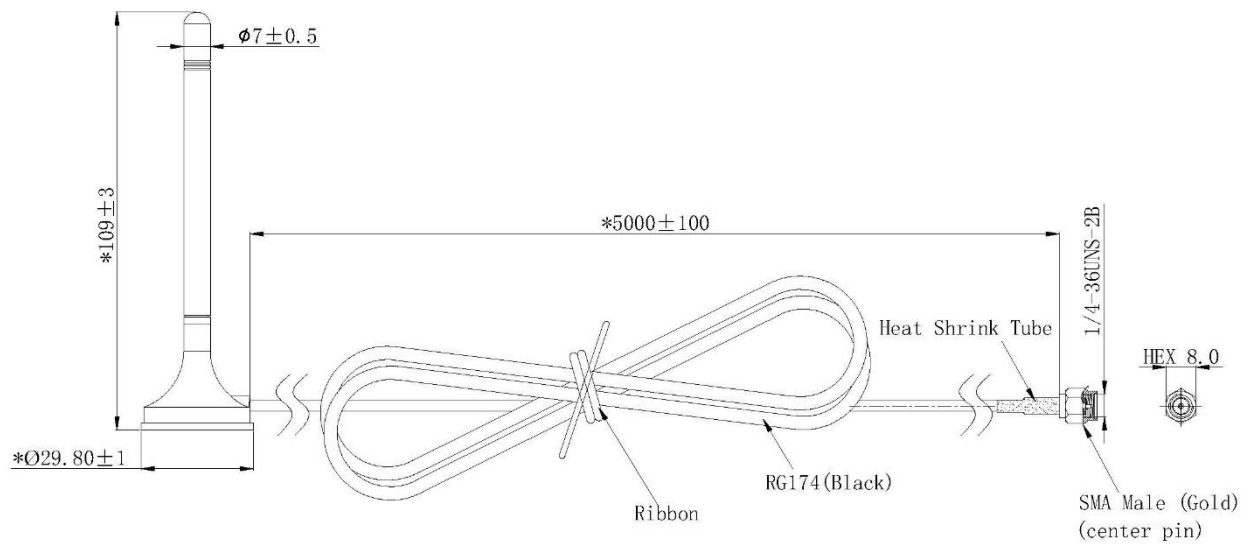
Electrical	
Frequency Range	700–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.8
Peak Gain	-2.6 dBi

1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	Φ 29.8 mm × 109 mm
Material & Color	TPEE & Black
Cable Type & Color & Length	RG174 & Black & 5000 mm
Connector Type	SMA Male
Weight	Typ. 64.5 g
Mounting Type	Magnet
Environmental	
Operation Temperature	-20 °C to +60 °C

Storage Temperature	-20 °C to +60 °C
Ingress Protection (IP) Rating	IP65
RoHS Compliant	Yes

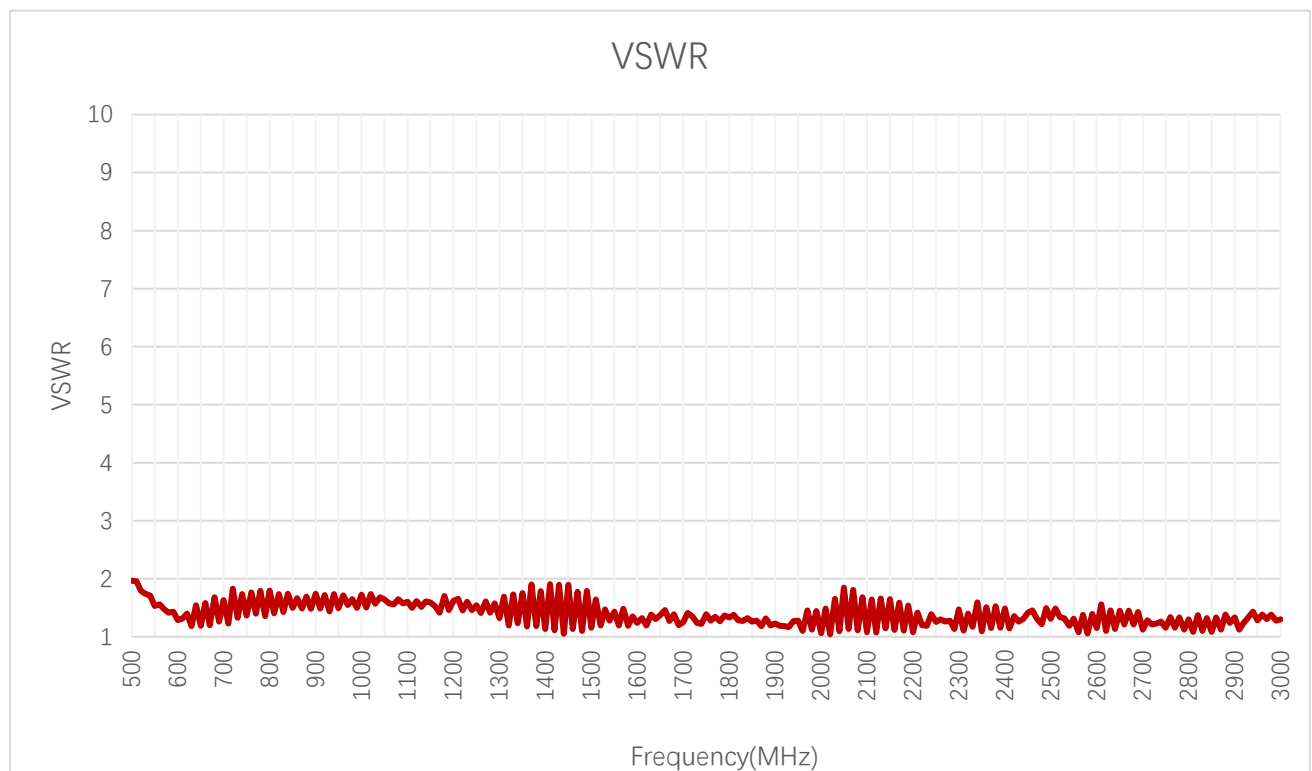
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

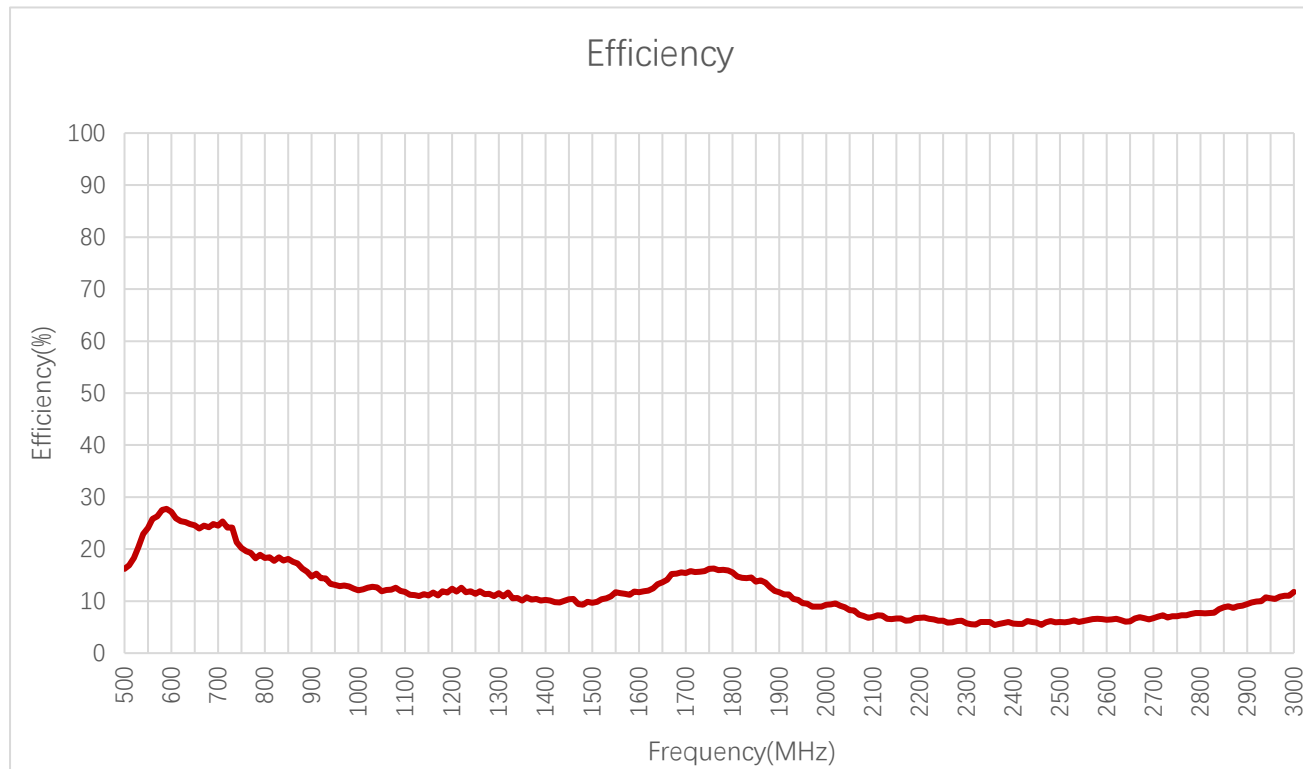


VSWR

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
VSWR	-	-	1.2	1.4	1.7	1.7	-	1.4	1.2	1.3
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	1.3	1.1	1.1	1.4	1.1	1.4	-	-	-	-

3.2. Radiation Performance Test

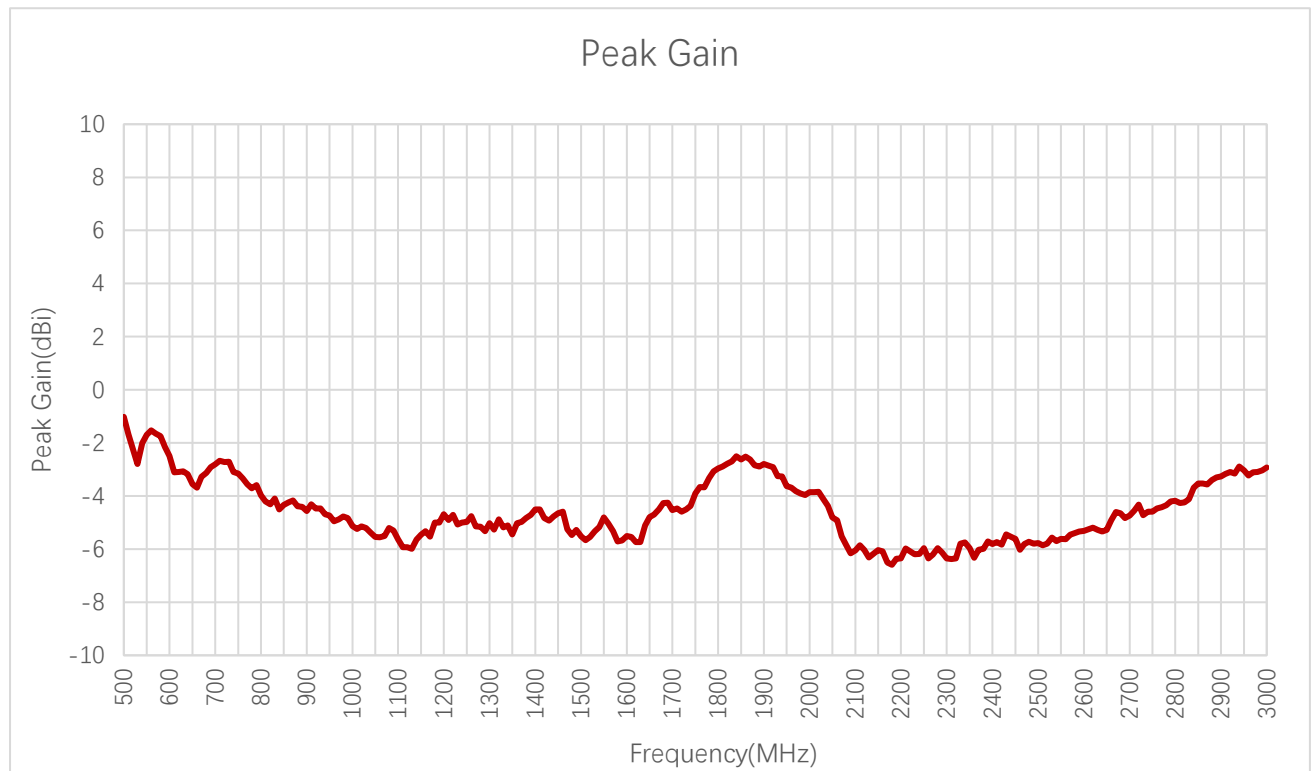
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Efficiency (%)	-	-	25.3	18.4	14.7	12.9	-	15.8	15.8	12.7
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	9.6	6.6	6.0	5.9	6.4	6.5	-	-	-	-

3.2.2. Peak Gain



Peak Gain (dBi)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Peak Gain (dBi)	-	-	-2.7	-4.1	-4.6	-5.0	-	-4.5	-4.4	-2.8
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Peak Gain (dBi)	-3.6	-6.2	-6.0	-5.6	-5.3	-4.8	-	-	-	-

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Revision History

Version	Date	Author	Note
-	2025-05-14	Omid JI/ Toby WANG/ Rainey LIAO	Creation of the document
1.0	2025-05-14	Omid JI/ Toby WANG/ Rainey LIAO	First official release



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