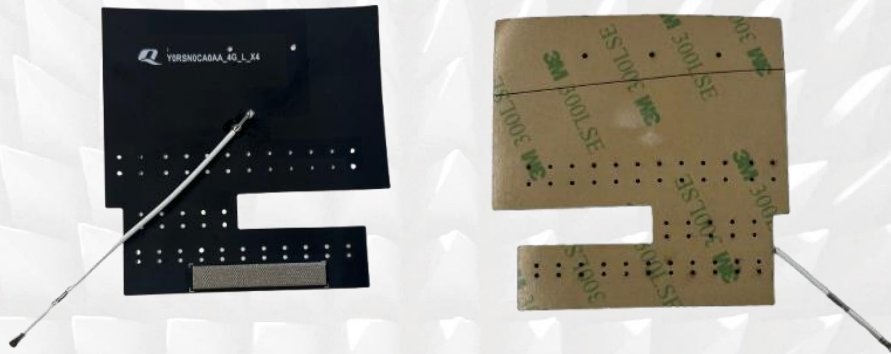




Antenna Datasheet

Product OC: Y0RSN0CA0AA

Version: 1.0

Date: 2025-05-22

Product Name: FPC 4G Antenna

Key Features:

Frequency Band: 698–960 MHz, 1710–2690 MHz

Dimensions: 66.97 mm × 65.4 mm

Efficiency: Up to 72.73 %

RoHS and REACH Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

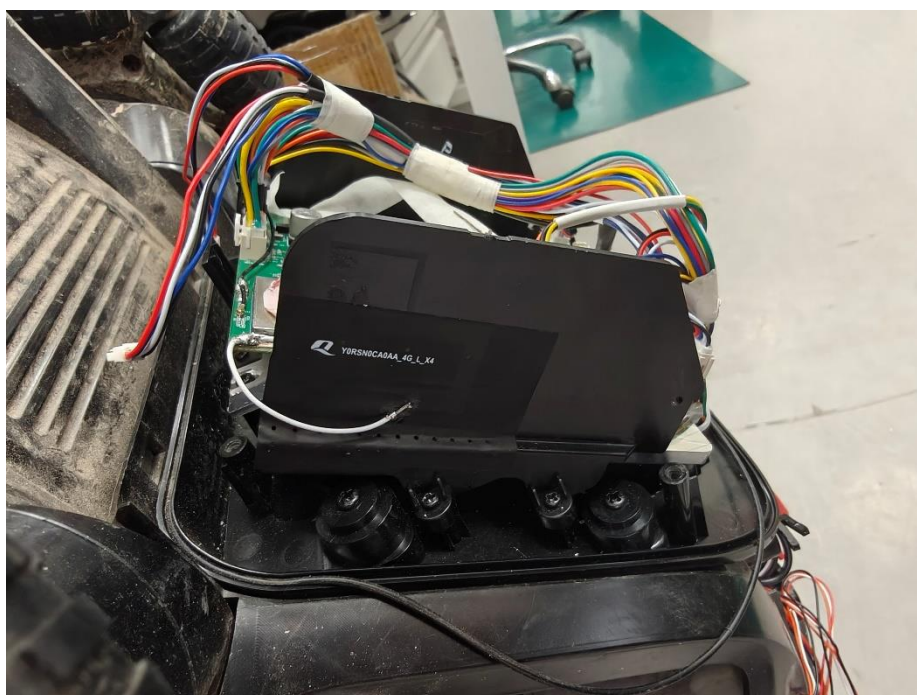
Electrical	
Frequency Range	698–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 3.0
Peak Gain	5.93 dBi

1.2. Mechanical & Environmental

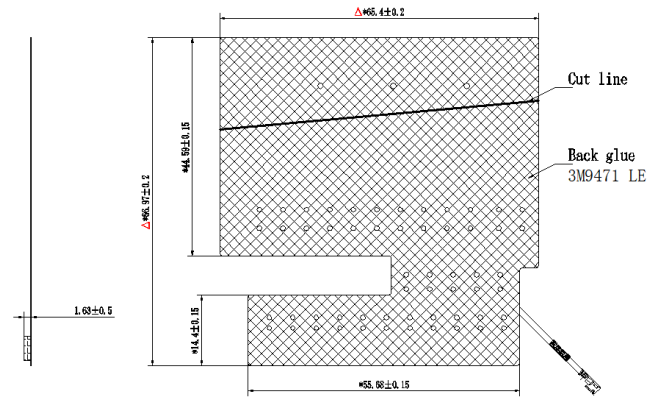
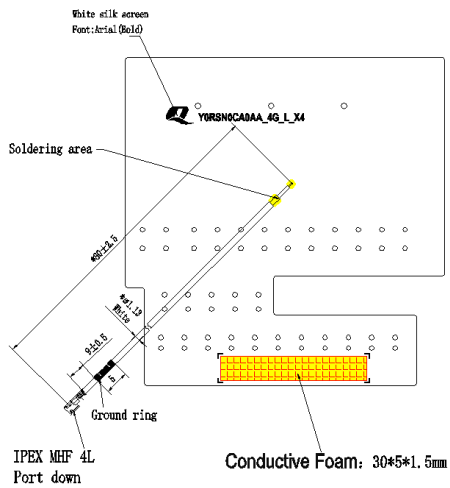
Mechanical	
Antenna Dimensions	66.97 mm × 65.4 mm
Material & Color	FPC & Black
Cable Type & Color & Length	Φ 1.13 & White & 80 mm
Connector Type	IPEX MHF 4L
Mounting Type	Adhesive
Weight	Typ. 1.6 g
Environmental	
Operation Temperature	-40 °C to +85 °C

Storage Temperature	-40 °C to +85 °C
RoHS & REACH Compliant	Yes

1.3. Antenna Assembly



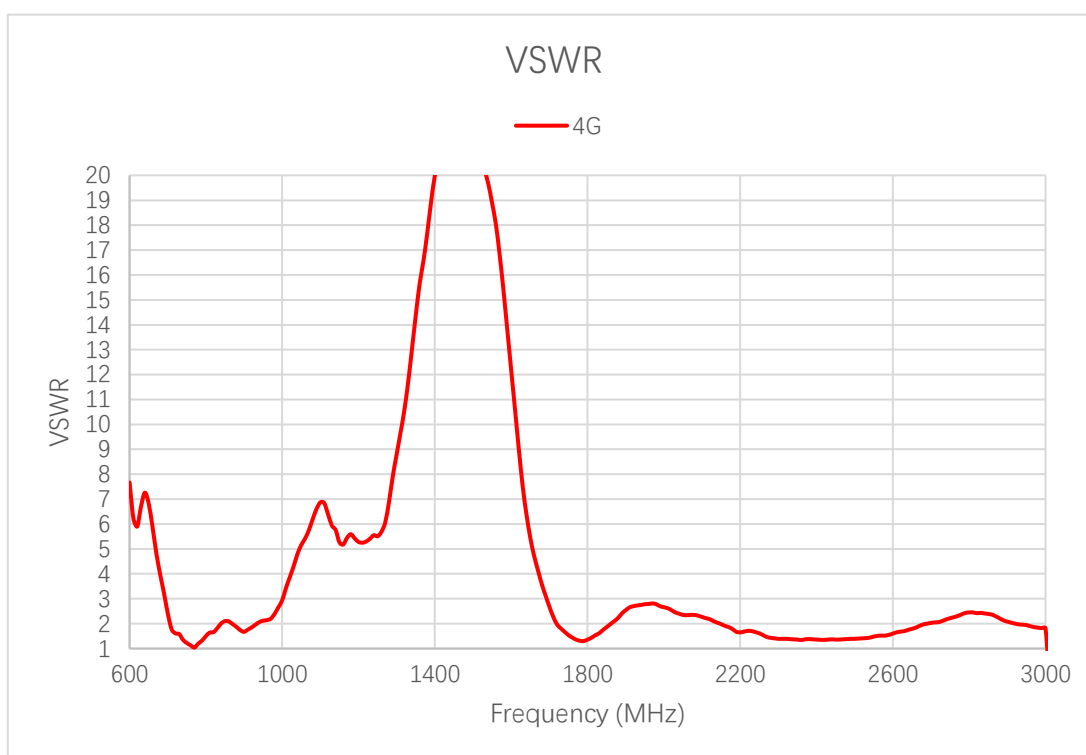
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

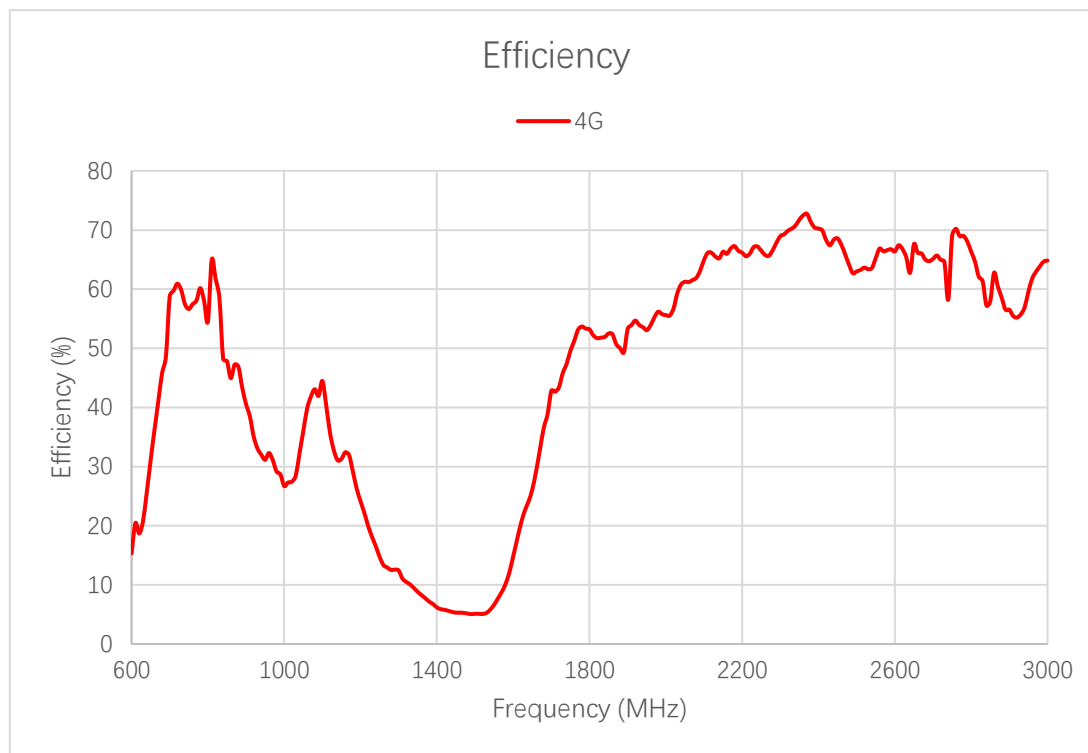


VSWR

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
VSWR	-	-	1.8	1.8	1.7	2.1	-	2.3	1.7	2.2
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	2.8	2.0	1.4	1.4	1.6	2.0	-	-	-	-

3.2. Radiation Performance Test

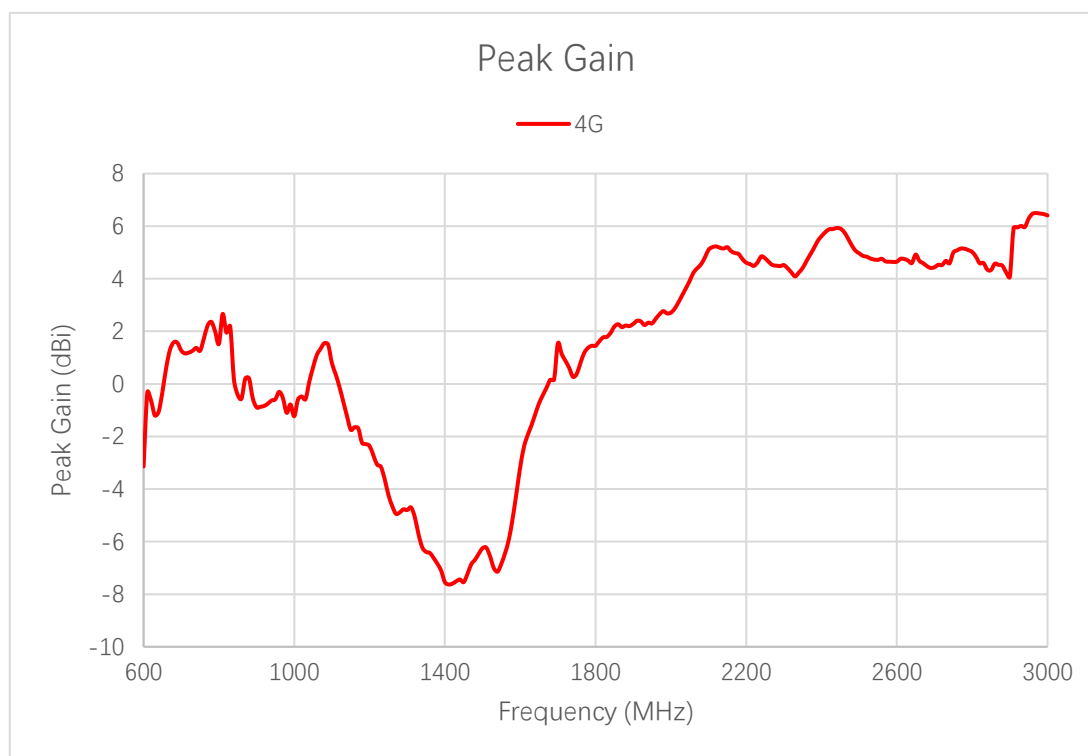
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Efficiency (%)	-	-	59.7	58.6	40.6	32.3	-	42.7	47.4	50.0
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	53.1	65.2	71.8	68.6	66.4	64.7	-	-	-	-

3.2.2. Peak Gain



Peak Gain (dBi)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Peak Gain (dBi)	-	-	1.2	2.2	-0.9	-0.3	-	1.1	0.3	2.2
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Peak Gain (dBi)	2.3	5.2	4.4	5.9	4.7	4.4	-	-	-	-

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:

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Tel: +86 21 5108 6236

Email: info@quectel.com

Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2025-05-22	Charming YAN/ Bill MO/ Aria CHU	Creation of the document
1.0	2025-05-22	Charming YAN/ Bill MO/ Aria CHU	First official release



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