

# Antenna Datasheet

**Product OC:** Y0RSN0CA0BA

**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 64.25 %

RoHS and REACH Compliant

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# 1 Specification

**Test Condition: Assembled in test device**

## 1.1. Electrical

<b>Electrical</b>	
<b>Frequency Range</b>	698–960 MHz, 1710–2690 MHz
<b>Impedance</b>	50 Ω
<b>Polarization</b>	Linear
<b>Radiation Pattern</b>	Omni-directional
<b>VSWR</b>	≤ 3.0
<b>Peak Gain</b>	4.7 dBi

## 1.2. Mechanical & Environmental

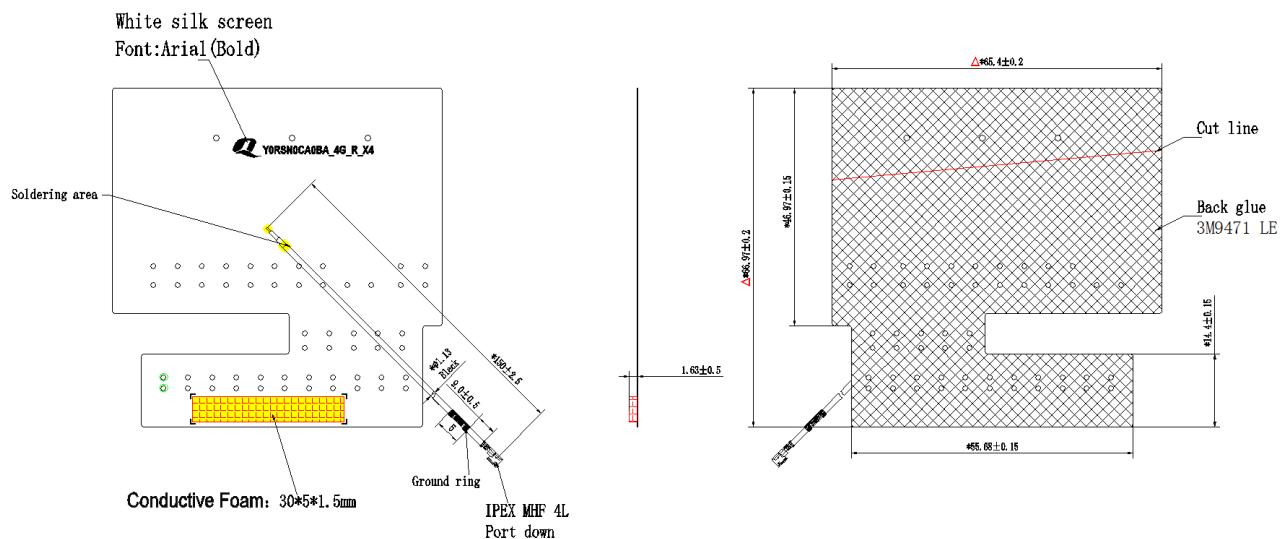
<b>Mechanical</b>	
<b>Antenna Dimensions</b>	66.97 mm × 65.4 mm
<b>Material &amp; Color</b>	FPC & Black
<b>Cable Type &amp; Color &amp; Length</b>	Φ 1.13 & Black & 150 mm
<b>Connector Type</b>	IPEX MHF 4L
<b>Mounting Type</b>	Adhesive
<b>Weight</b>	Typ. 1.8 g
<b>Environmental</b>	
<b>Operation Temperature</b>	-40 °C to +85 °C

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

### 1.3. Antenna Assembly



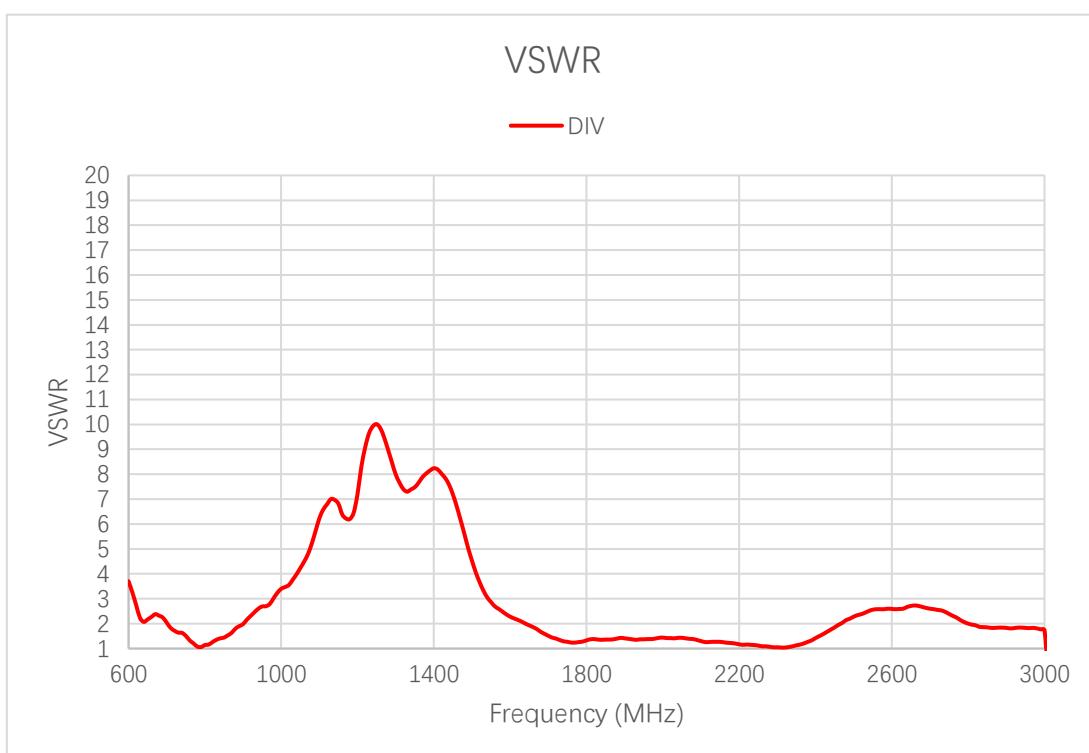
## 2 Drawing



# 3 Detailed Performance

## 3.1. S-Parameter Test

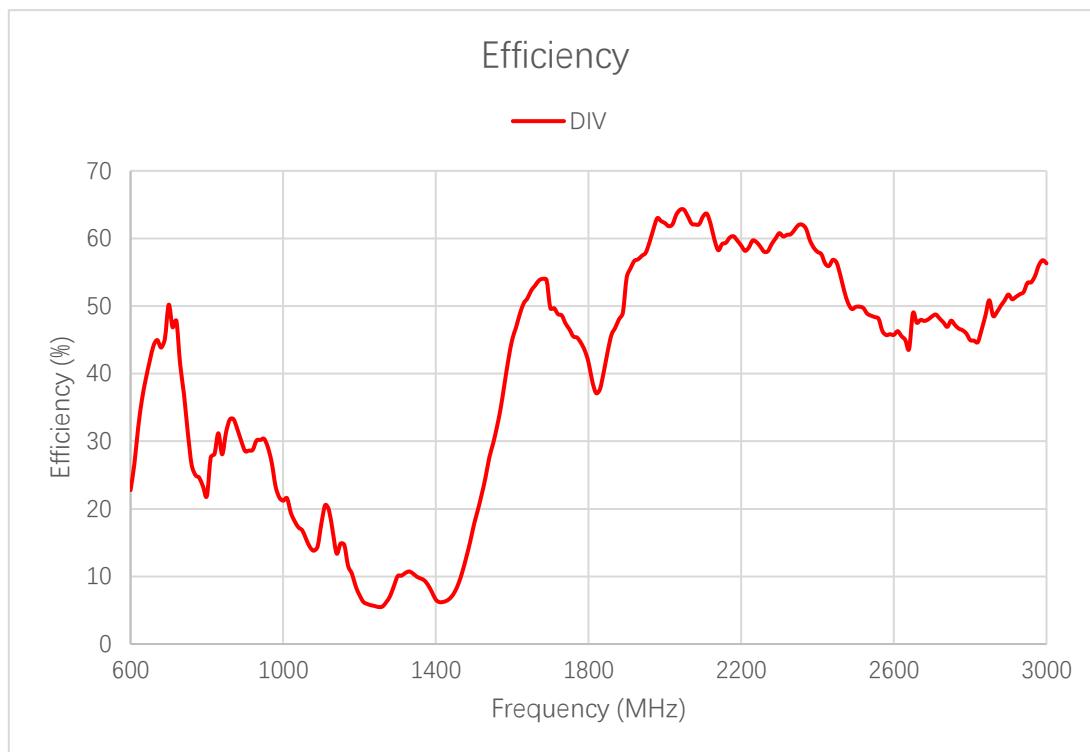
### 3.1.1. VSWR



VSWR										
Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
VSWR	-	-	1.8	1.4	2.0	2.7	-	1.4	1.3	1.4
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	1.4	1.3	1.1	1.9	2.6	2.6	-	-	-	-

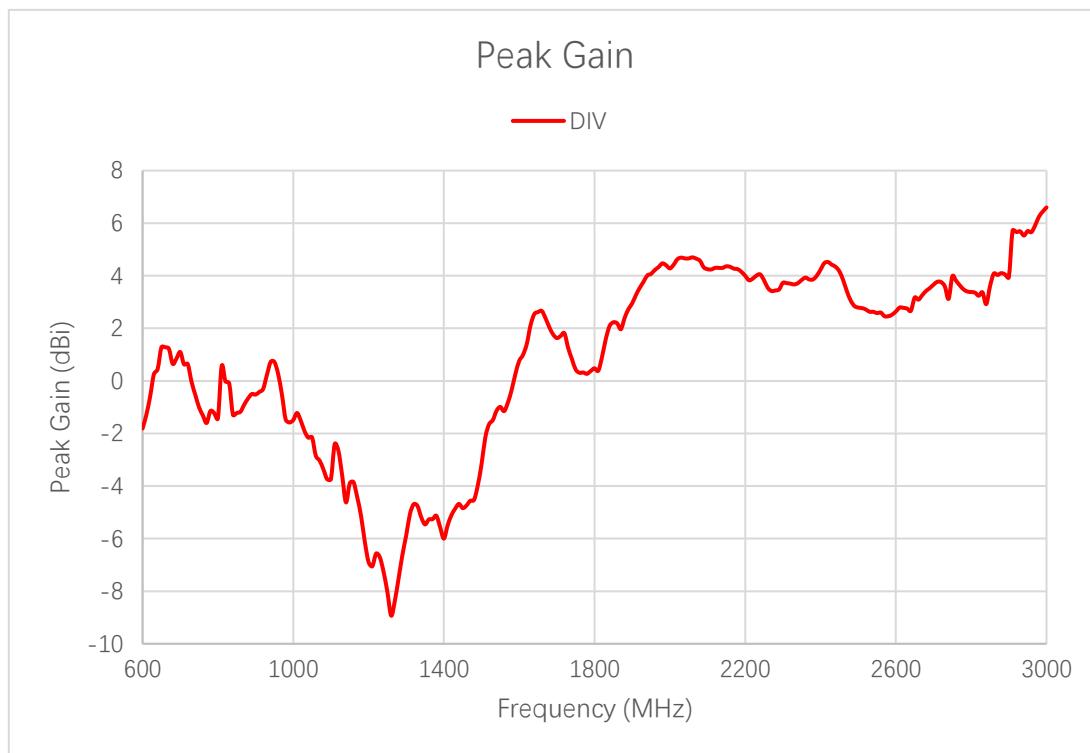
## 3.2. Radiation Performance Test

### 3.2.1. Efficiency



Efficiency (%)										
Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Efficiency (%)	-	-	46.9	31.2	28.6	29.1	-	49.7	47.4	48.1
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	57.9	58.3	62.0	56.4	45.7	48.0	-	-	-	-

### 3.2.2. Peak Gain



Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Peak Gain (dBi)	-	-	0.6	-0.1	-0.5	0.3	-	1.7	0.8	2.4
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Peak Gain (dBi)	4.1	4.3	3.8	4.2	2.6	3.5	-	-	-	-

# 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
-	2025-05-22	Charming YANG/ Bill MO/ Aria CHU	Creation of the document
1.0	2025-05-22	Charming YANG/ Bill MO/ Aria CHU	First official release



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