



Antenna Datasheet

Product OC: Y0CEA0MA5AA

Version: 1.0

Date: 2025-09-13

Product Name: FPC WIFI + Cable Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 141.88 mm × 8.8 mm

Efficiency: Up to 71.9%

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

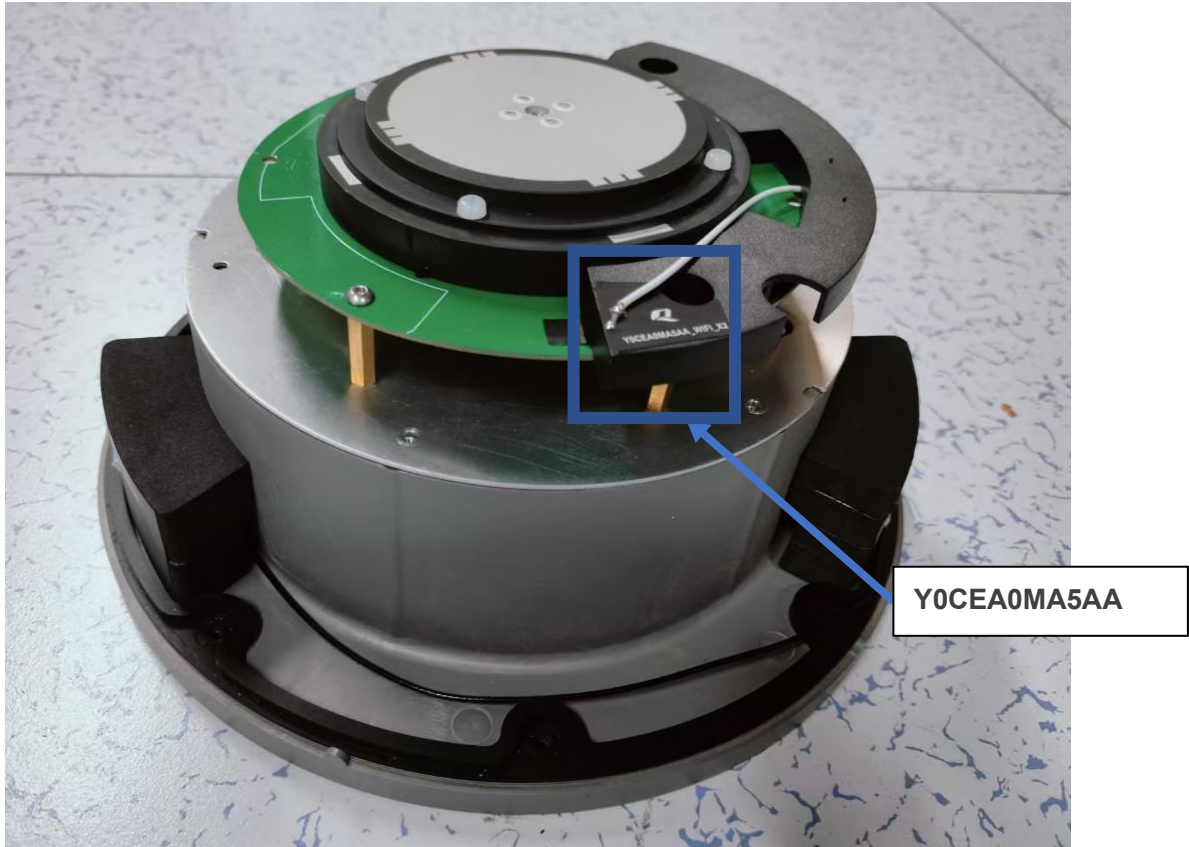
Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.6
Peak Gain	6.0 dBi

1.2. Mechanical & Environmental

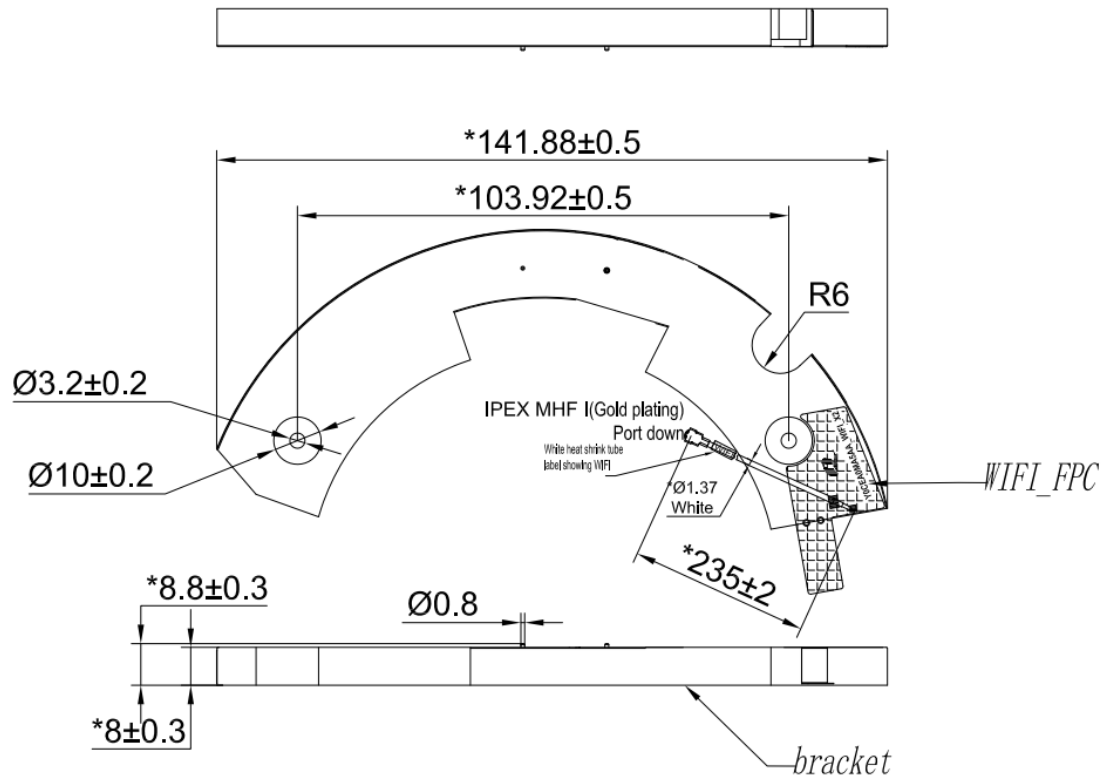
Mechanical	
Antenna Dimensions	141.88 mm × 8.8 mm
Material & Color	PC+FPC & Black
Cable Type & Color & Length	Φ1.37 & White & 235mm
Connector Type	IPEX MHF 1
Weight	Typ. 13.4 g
Mounting Type	Screw
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C

RoHS Compliant	Yes
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1.3. Antenna Assembly



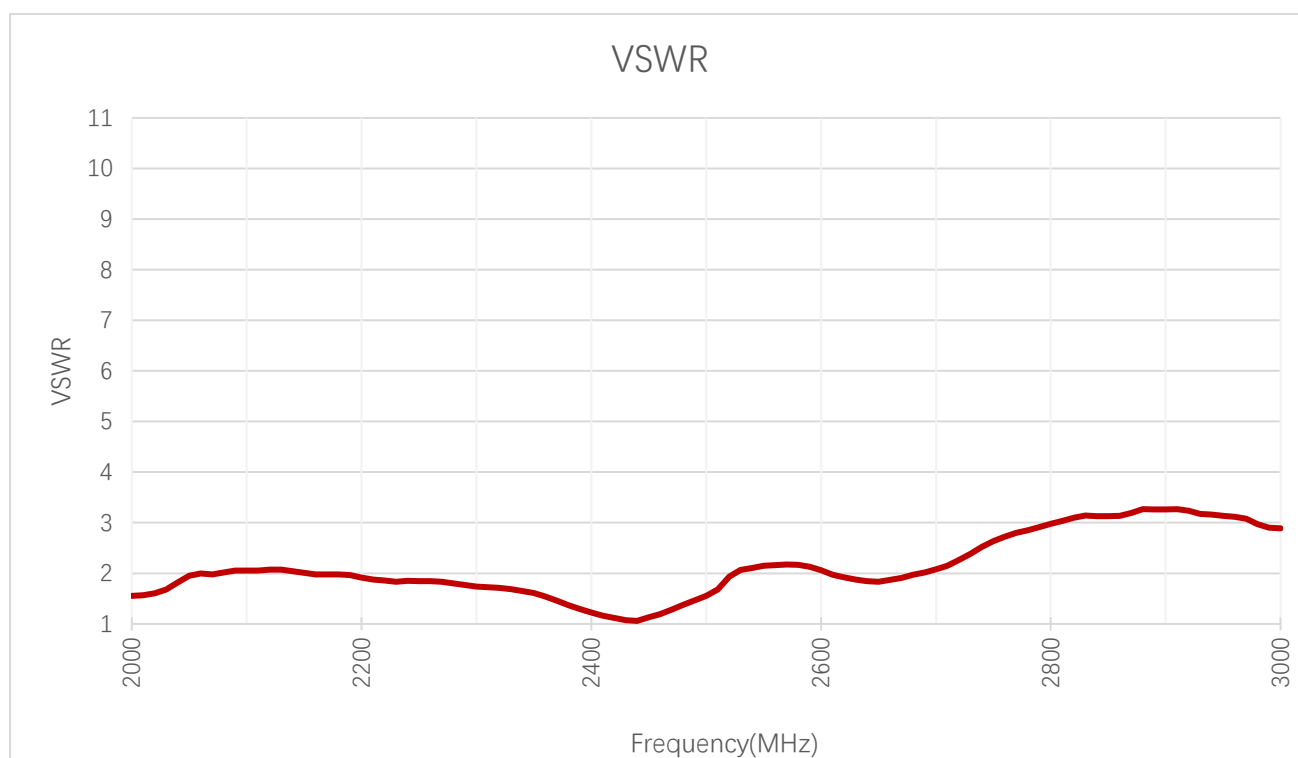
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR



VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.2	1.1	1.6	-	-	-	-	-	-	-

3.2. Radiation Performance Test

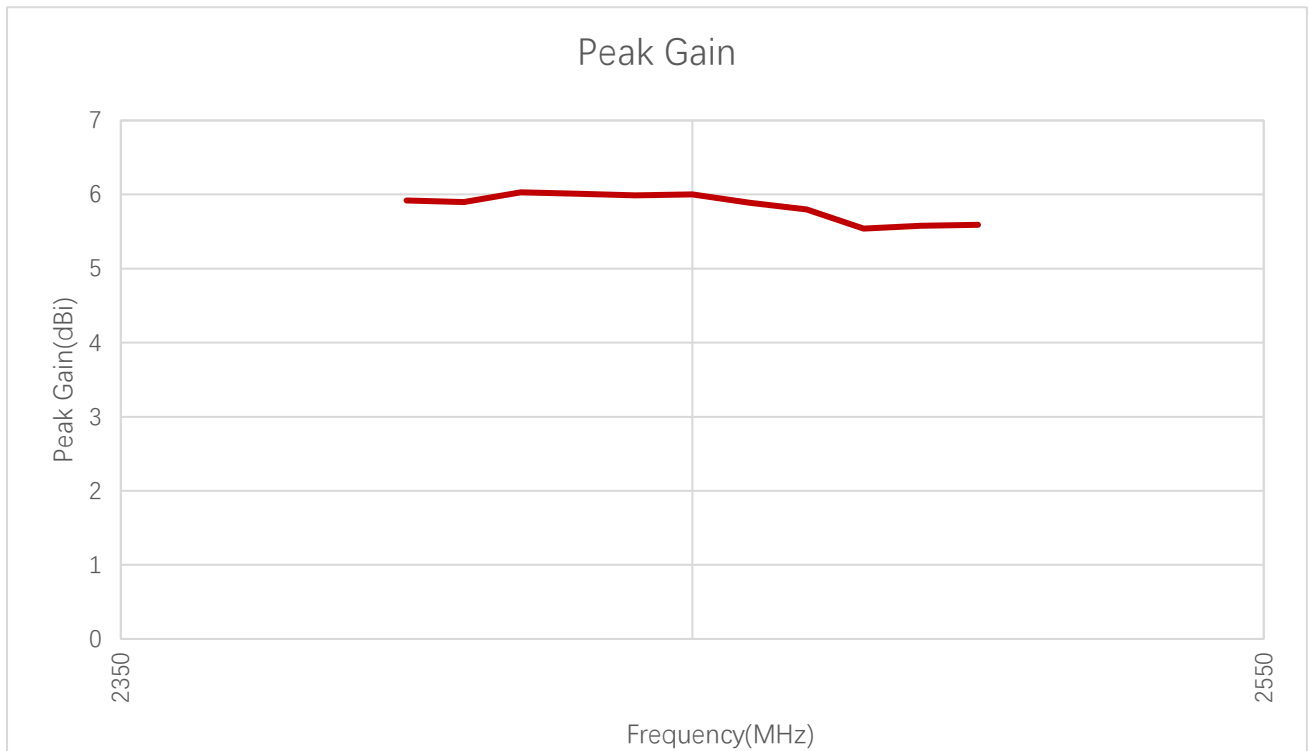
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	71.9	69.1	62.7	-	-	-	-	-	-	-

3.2.2. Peak Gain

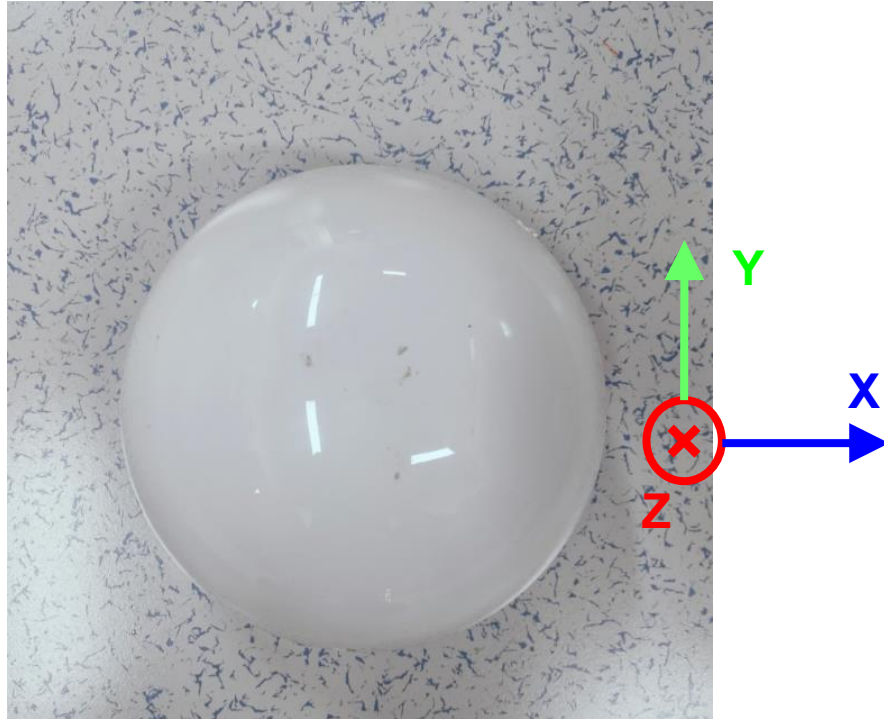


Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	5.9	6.0	5.6	-	-	-	-	-	-	-

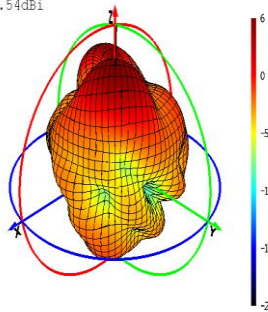
3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1

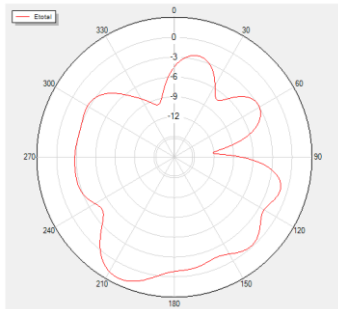


2400 MHz

MAX:5.92dBi
MIN:-23.54dBi

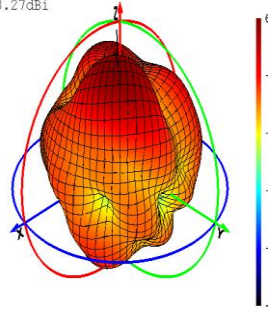


Theta=90 Freq=2400MHz

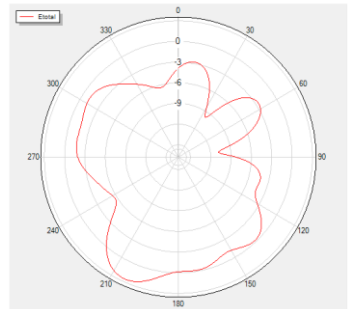


2450 MHz

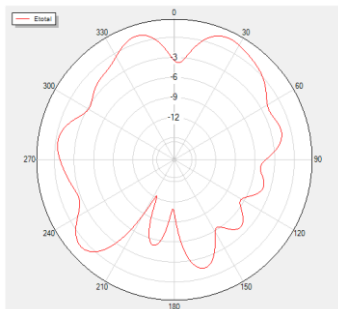
MAX:6dBi
MIN:-33.27dBi



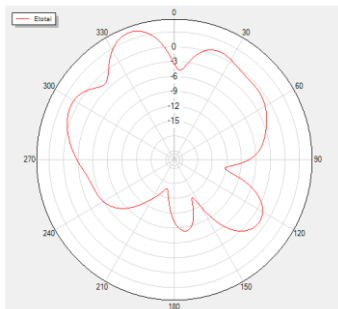
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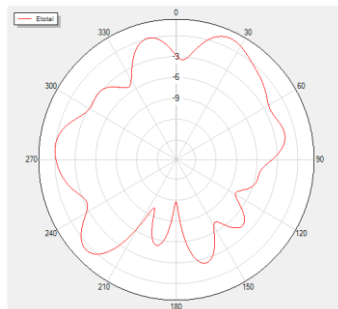
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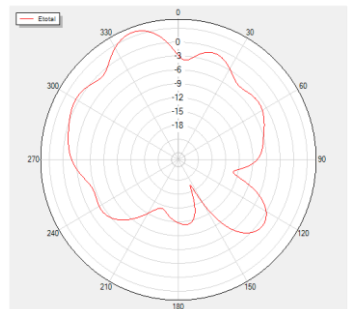
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Phi=0 Freq=2450MHz

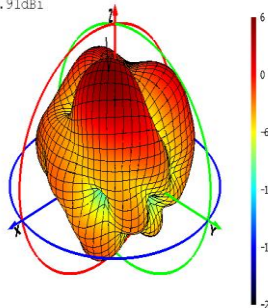


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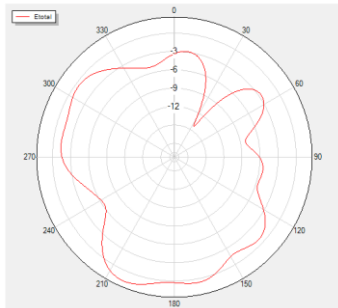


2500 MHz

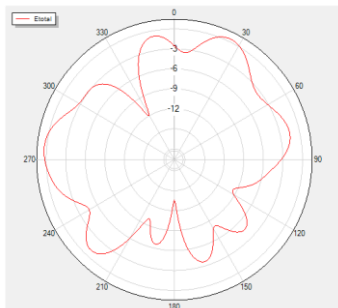
MAX:5.59dBi
MIN:-26.91dBi



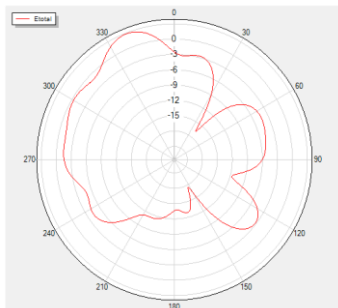
Theta=90 Freq=2500MHz



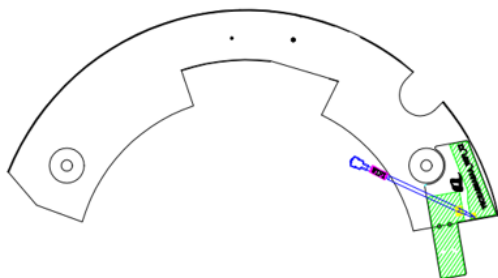
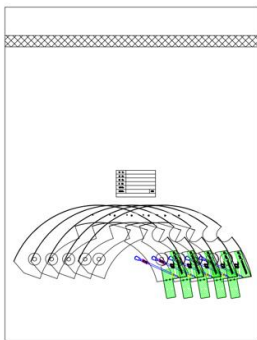
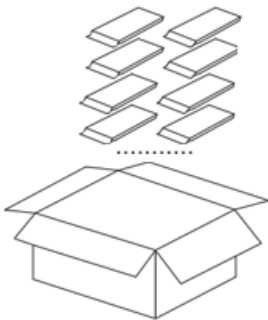
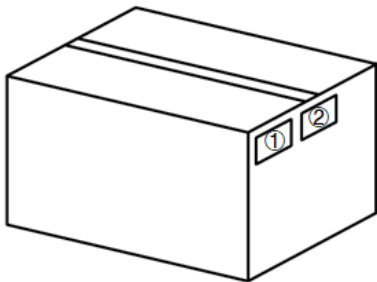
Phi=0 Freq=2500MHz

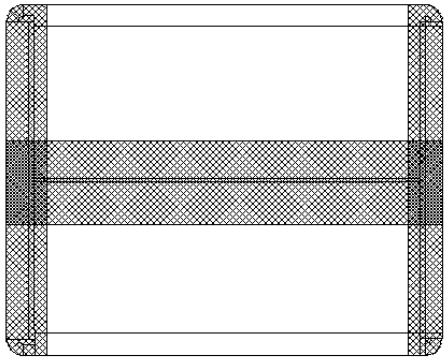


Phi=90 Freq=2500MHz



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		10 antenna products in a PE bag. (10 Antennas / PE Bag)
3		(20 PE Bags / Carton Box) (200 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 370 × 370 × 295 mm</u>
4		Position for Attaching Labels ① Carton Label ② Quality Label

5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

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

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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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Antenna Datasheet

Product OC: Y0CEA0MA5FA

Version: 1.0

Date: 2025-09-13

Product Name: 4G FPC + Cable Antenna

Key Features:

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

Dimensions: 64.1 mm × 35 mm × 25.33 mm

Efficiency: Up to 77.72 %

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

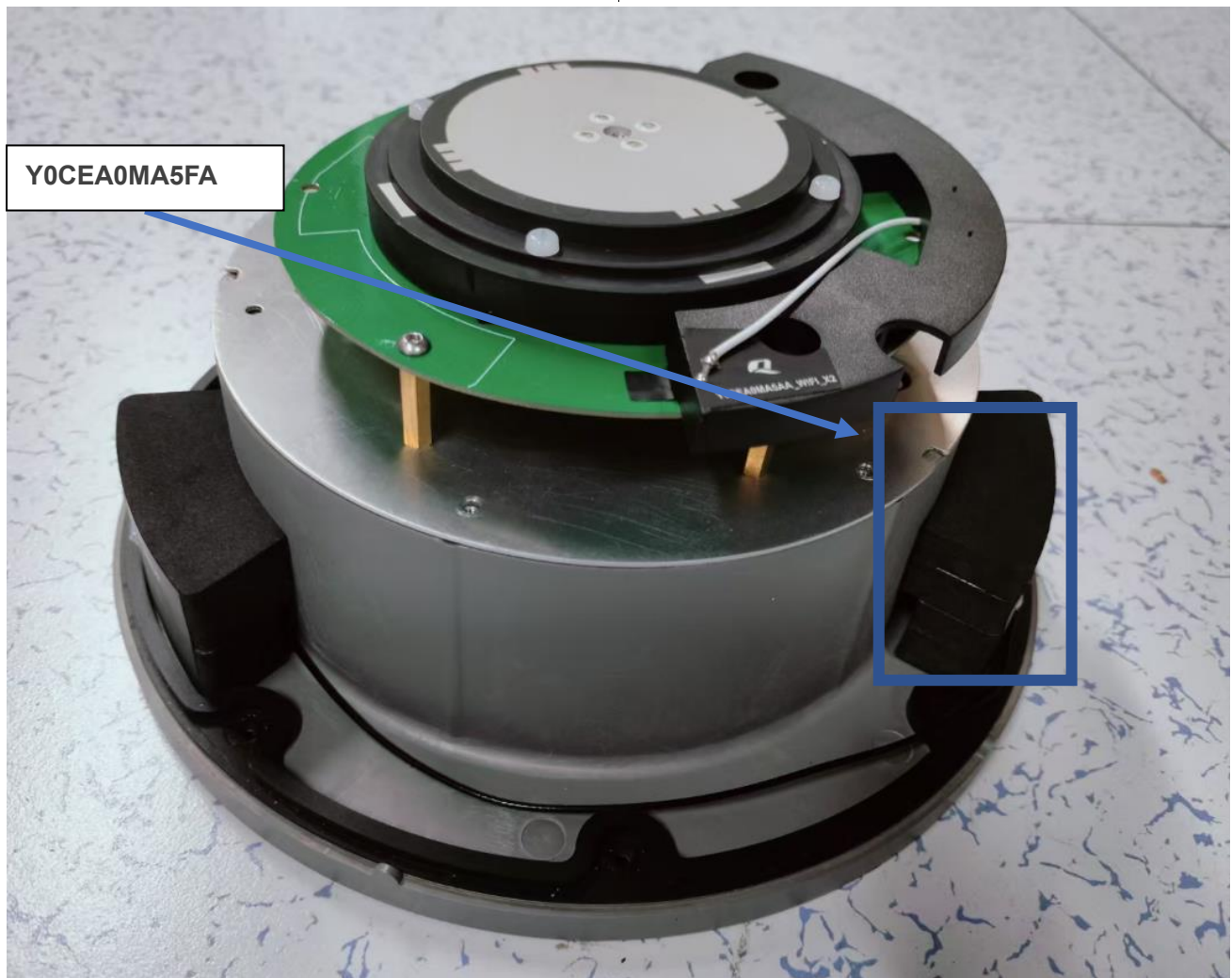
Electrical	
Frequency Range	698–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 5.2
Peak Gain	4.2 dBi

1.2. Mechanical & Environmental

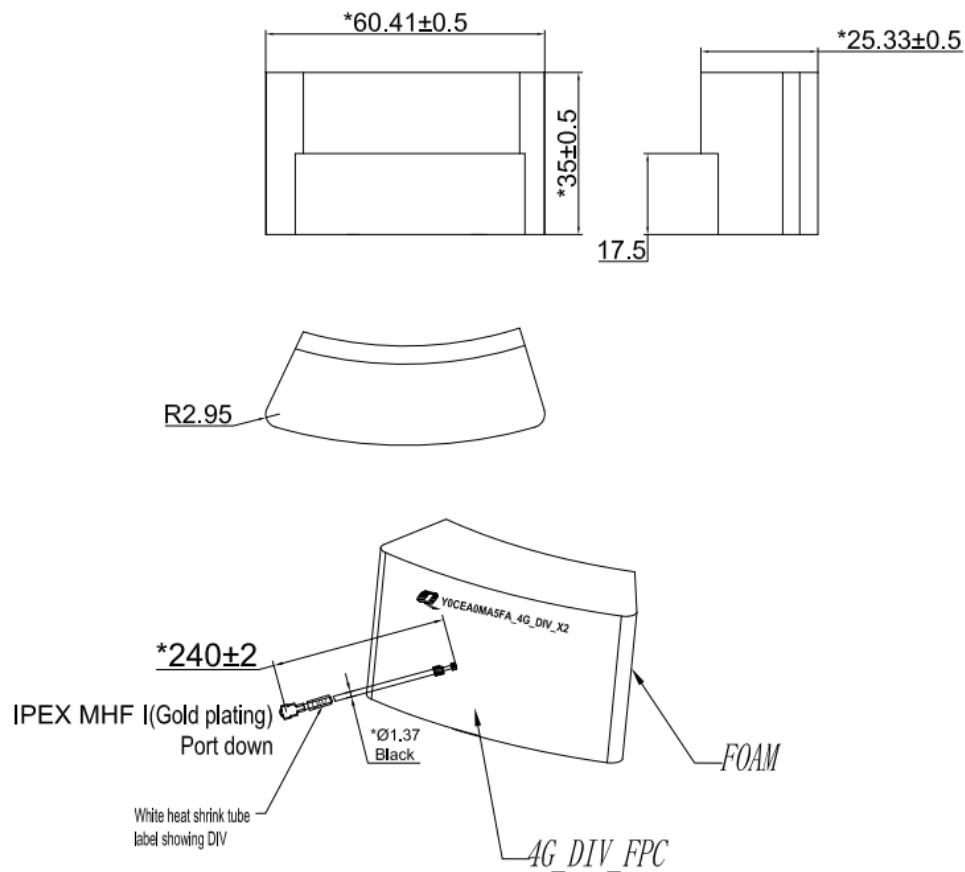
Mechanical	
Antenna Dimensions	60.41 mm × 35 mm × 25.33 mm
Material & Color	FPC+EVA & Black
Cable Type & Color & Length	$\Phi 1.37$ & Black & 240mm
Connector Type	IPEX MHF 1
Weight	Typ. 7.2 g
Mounting Type	Adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C

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

1.3. Antenna Assembly



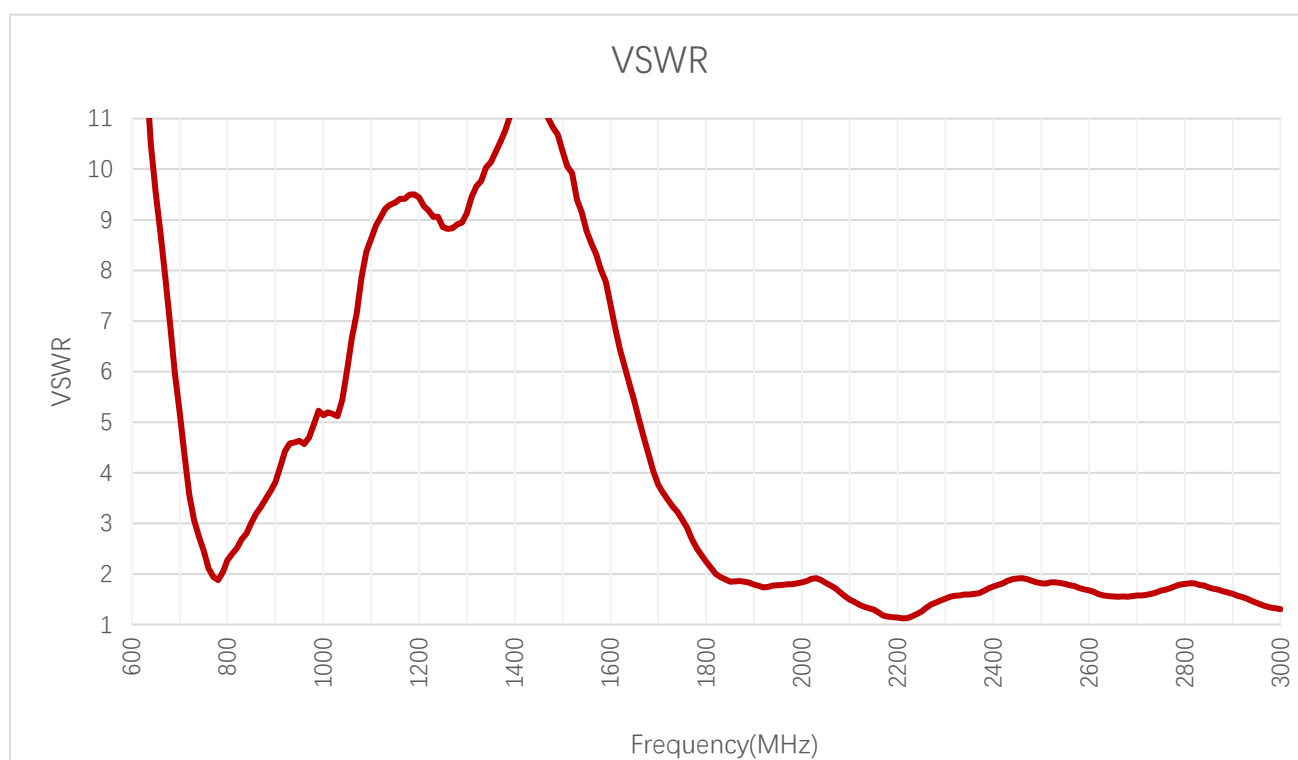
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

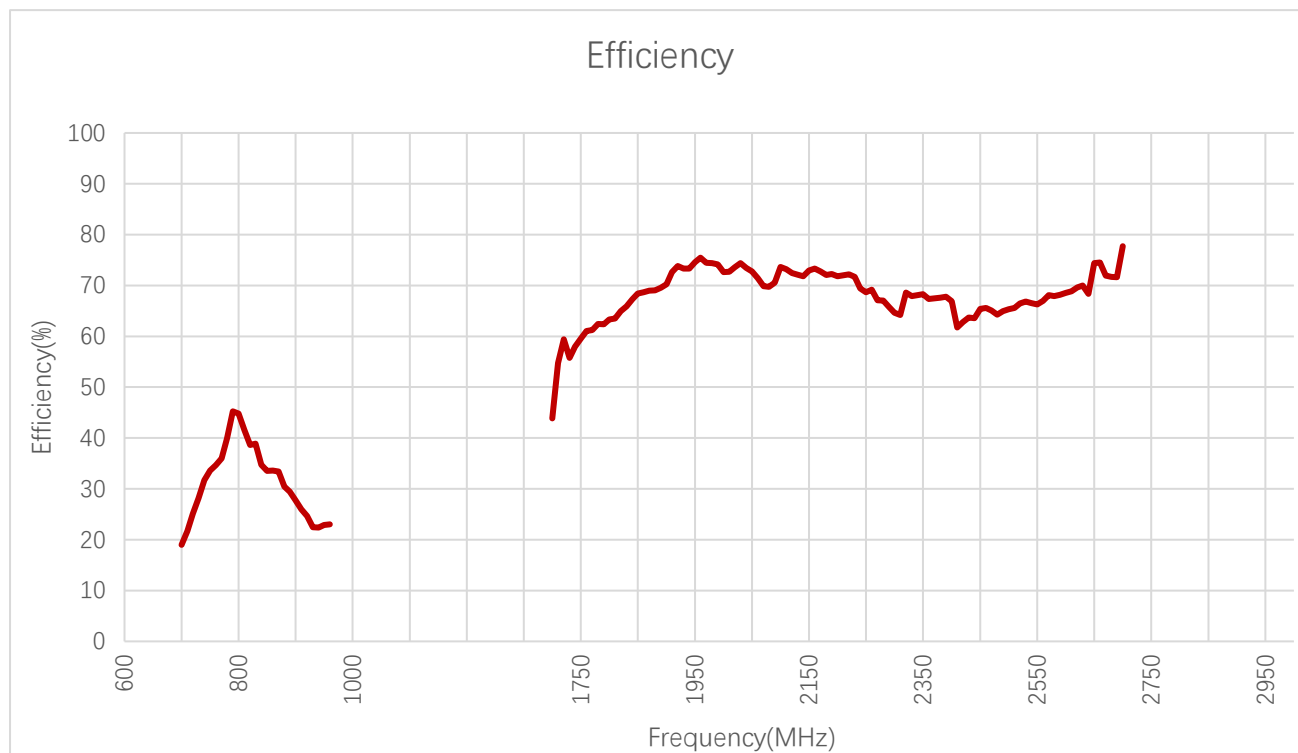


VSWR

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
VSWR	-	-	4.4	2.7	3.8	4.6	-	3.6	3.2	1.8
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	1.8	1.3	1.6	1.9	1.7	1.6	-	-	-	-

3.2. Radiation Performance Test

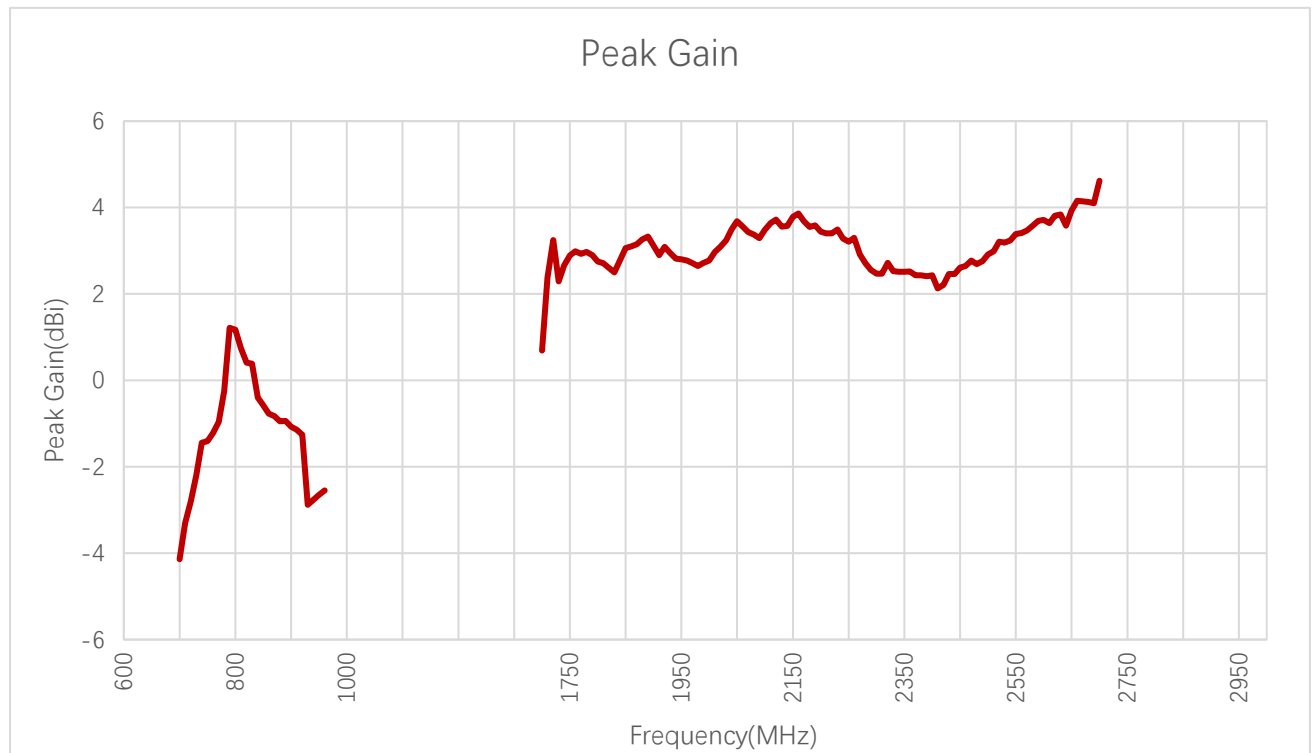
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Efficiency (%)	-	-	21.7	38.9	27.7	23.0	-	54.7	57.9	69.1
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	74.6	71.8	68.3	65.4	68.5	71.7	-	-	-	-

3.2.2. Peak Gain

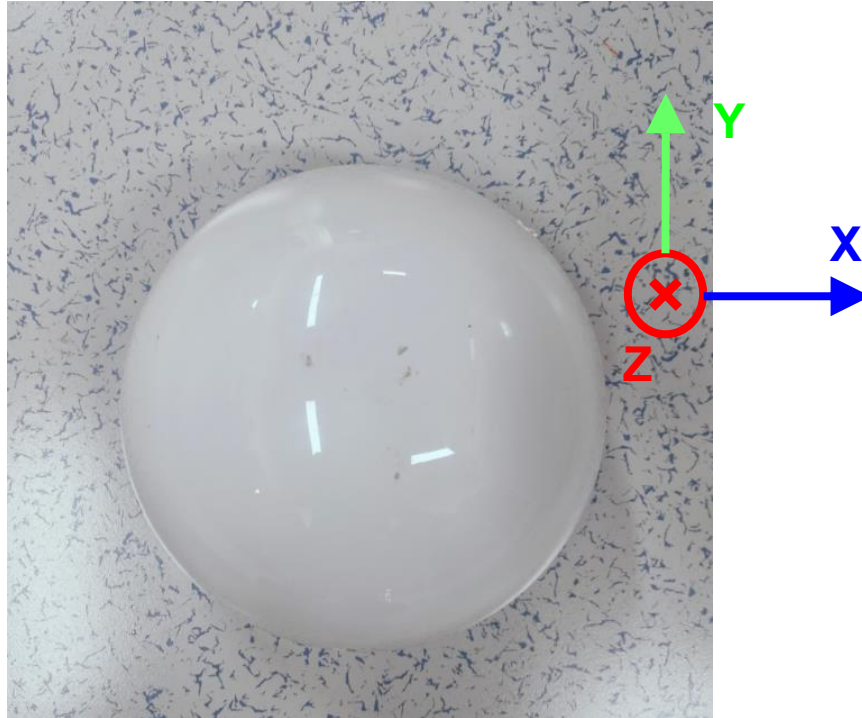


Peak Gain (dBi)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Peak Gain (dBi)	-	-	-3.3	0.4	-1.1	-2.6	-	2.4	2.7	3.3
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Peak Gain (dBi)	2.8	3.6	2.5	2.6	3.7	4.1	-	-	-	-

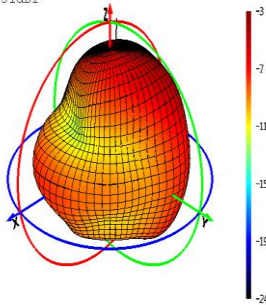
3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1

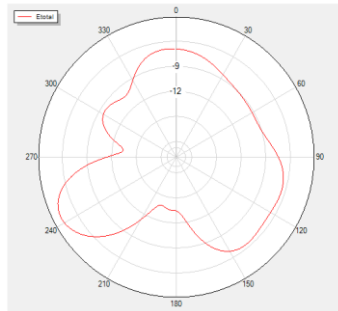


710 MHz

MAX:-3.3dBi
MIN:-24.51dBi

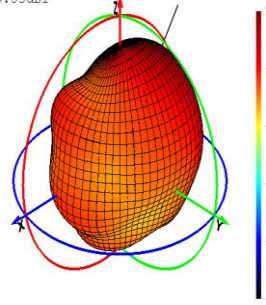


Theta=90 Freq=710MHz

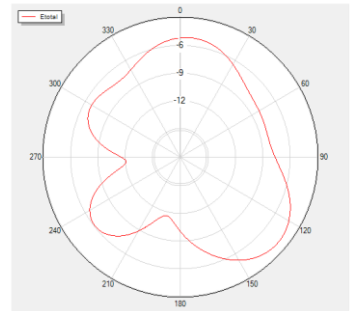


830 MHz

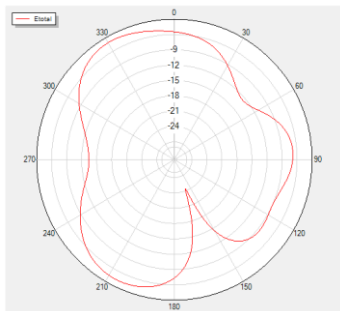
MAX:0.39dBi
MIN:-30.53dBi



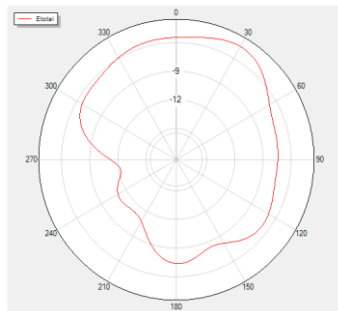
Theta=90 Freq=830MHz



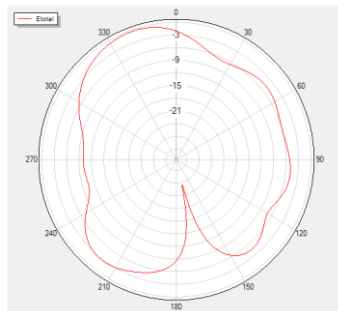
Phi=0 Freq=710MHz



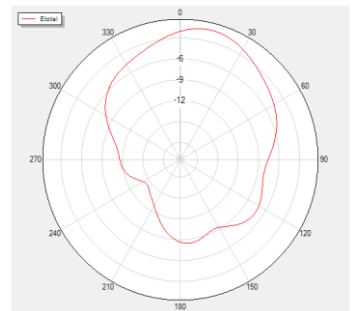
Phi=90 Freq=710MHz



Phi=0 Freq=830MHz

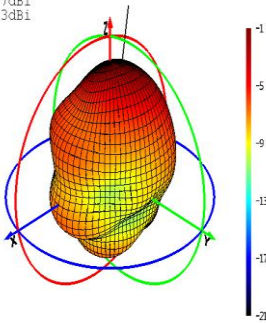


Phi=90 Freq=830MHz

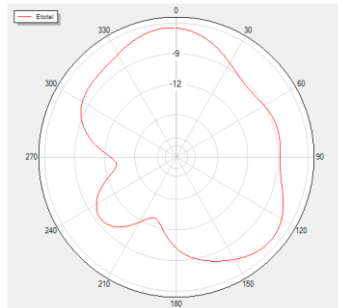


900 MHz

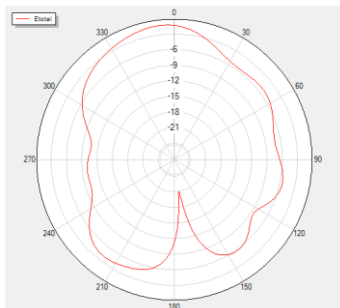
MAX:-1.07dBi
MIN:-21.3dBi



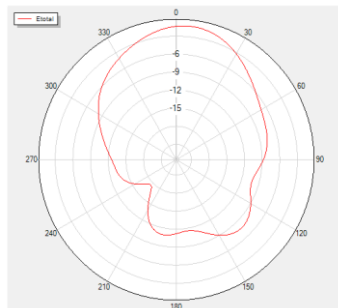
Theta=90 Freq=900MHz



Phi=0 Freq=900MHz

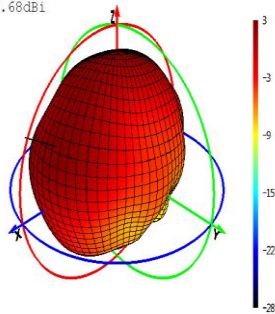


Phi=90 Freq=900MHz

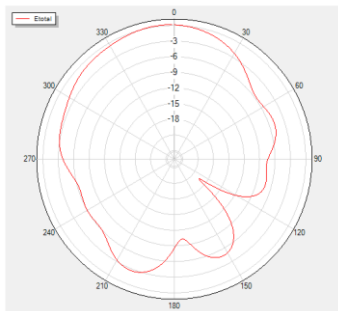


1740 MHz

MAX:2.66dBi
MIN:-28.68dBi

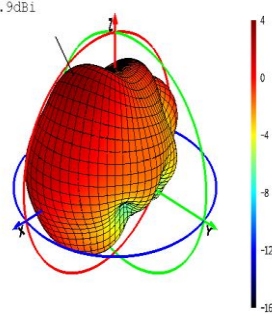


Theta=90 Freq=1740MHz

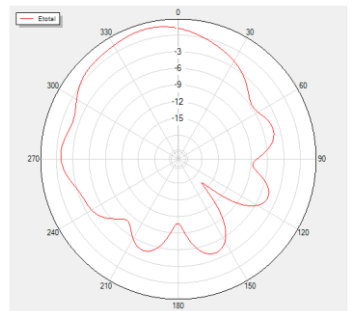


1880 MHz

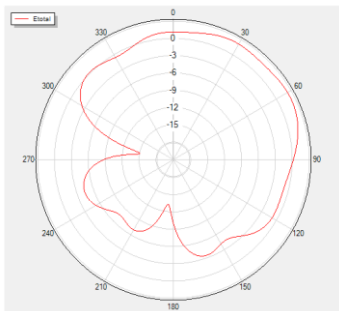
MAX:3.26dBi
MIN:-16.9dBi



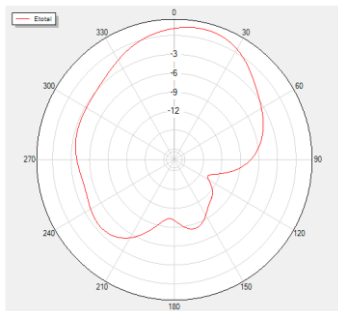
Theta=90 Freq=1880MHz



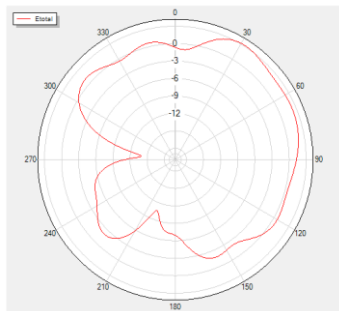
Phi=0 Freq=1740MHz



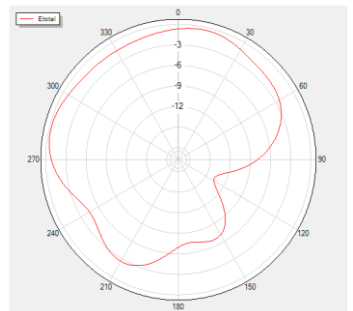
Phi=90 Freq=1740MHz



Phi=0 Freq=1880MHz

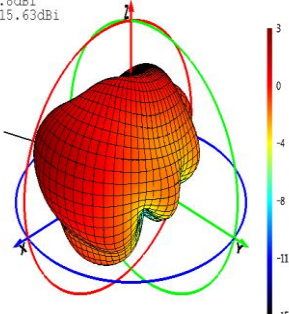


Phi=90 Freq=1880MHz

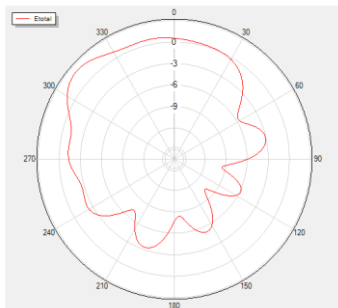


1950 MHz

MAX:2.8dBi
MIN:-15.63dBi

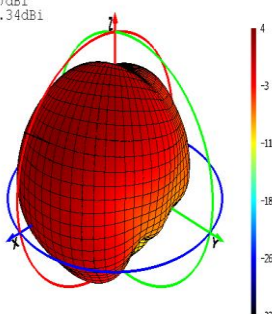


Theta=90 Freq=1950MHz

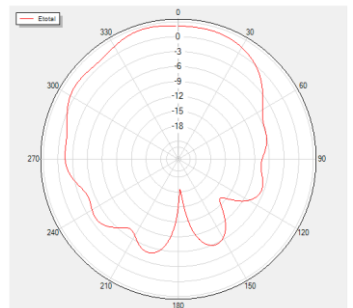


2140MHz

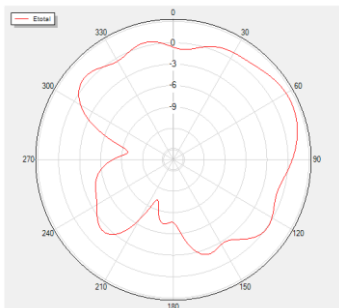
MAX:3.57dBi
MIN:-34.34dBi



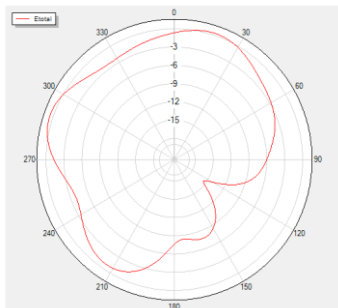
Theta=90 Freq=2140MHz



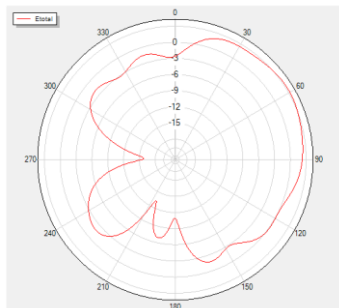
Phi=0 Freq=1950MHz



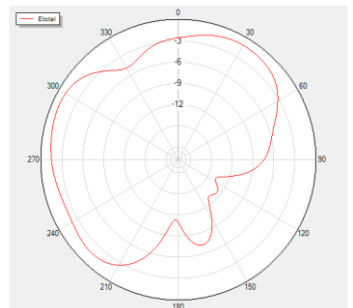
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Phi=0 Freq=2140MHz

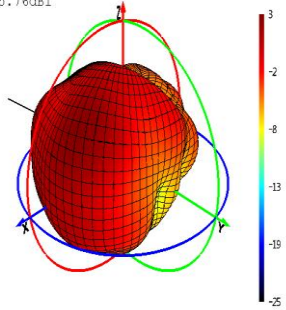


Phi=90 Freq=2140MHz

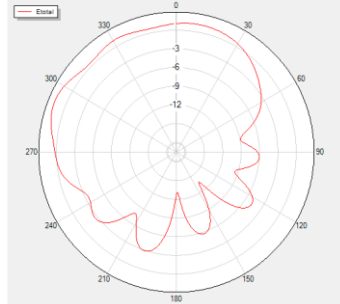


2350 MHz

MAX:2.51dBi
MIN:-25.76dBi

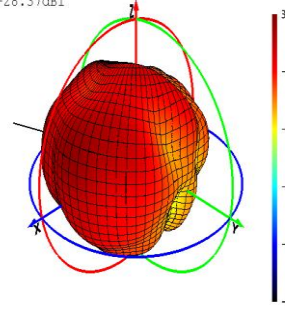


Theta=90 Freq=2350MHz

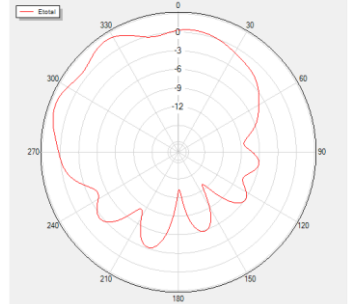


2450 MHz

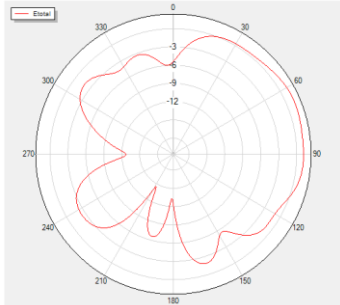
MAX:2.61dBi
MIN:-26.37dBi



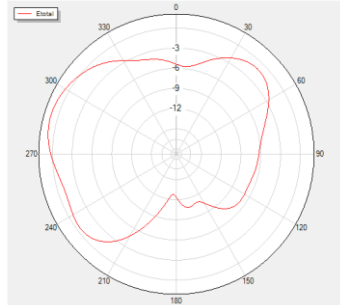
Theta=90 Freq=2450MHz



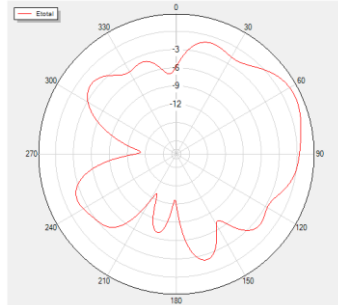
Phi=0 Freq=2350MHz



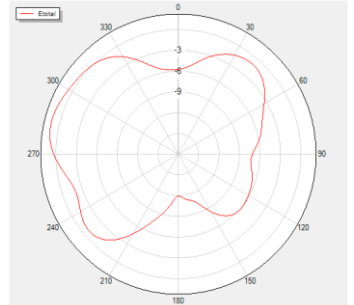
Phi=90 Freq=2350MHz



Phi=0 Freq=2450MHz

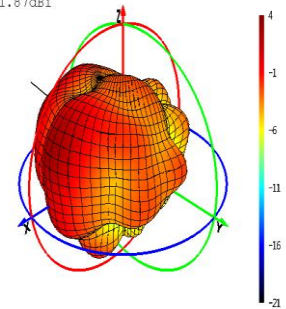


Phi=90 Freq=2450MHz

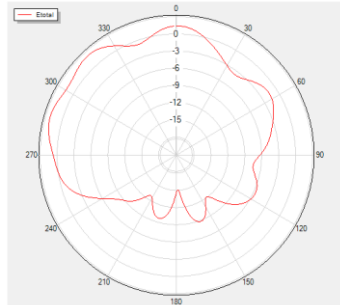


2600 MHz

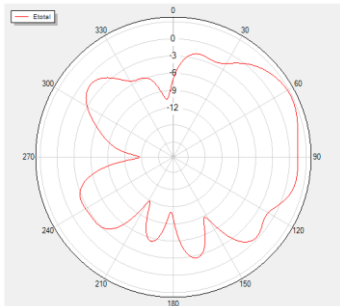
MAX:3.71dBi
MIN:-21.87dBi



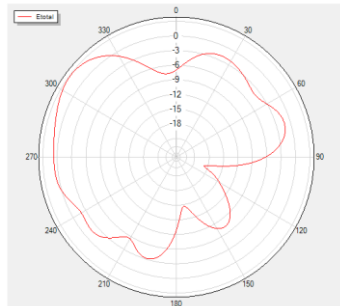
Theta=90 Freq=2600MHz



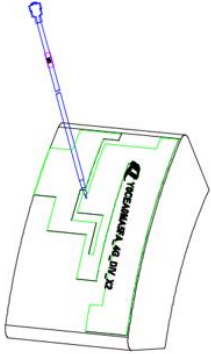
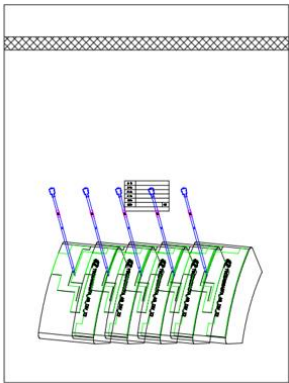
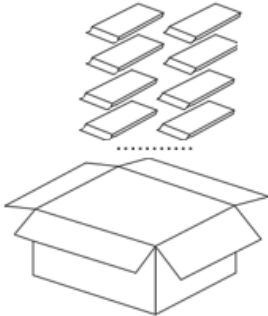
Phi=0 Freq=2600MHz

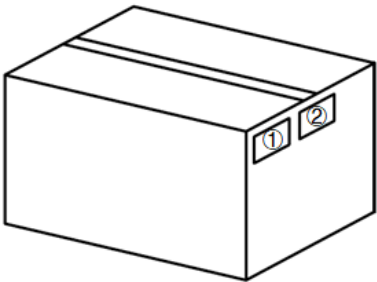
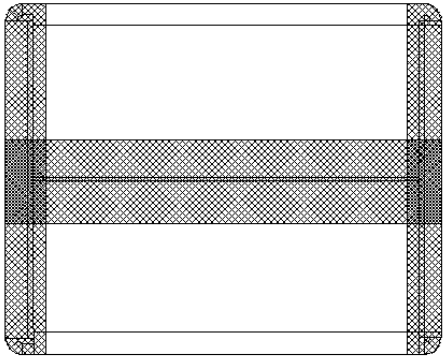


Phi=90 Freq=2600MHz



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		10 antenna products in a PE bag. (10 Antennas / PE Bag)
3		(20 PE Bags / Carton Box) (200 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 370 × 370 × 295 mm</u>

4		Position for Attaching Labels ① Carton Label ② Quality Label
5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

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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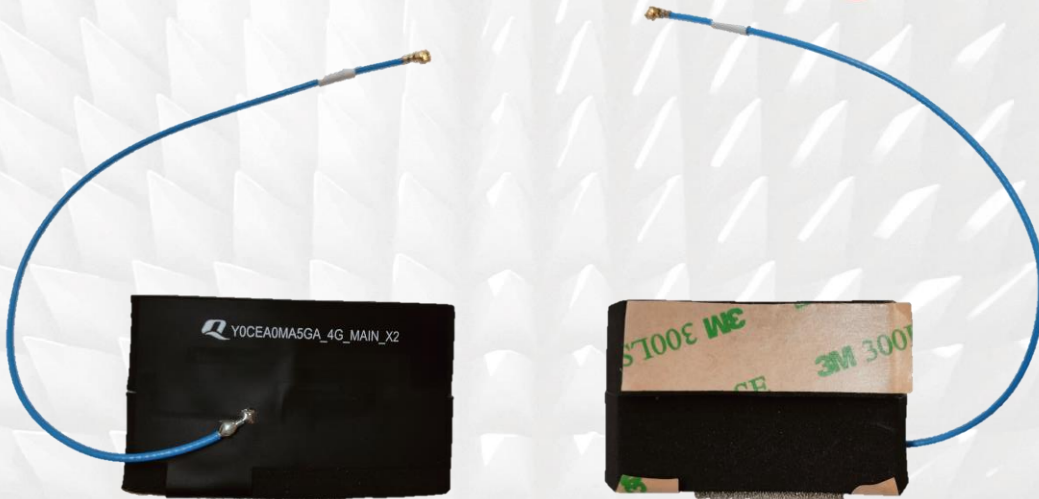
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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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Antenna Datasheet

Product OC: Y0CEA0MA5GA

Version: 1.0

Date: 2025-09-13

Product Name: 4G FPC + Cable Antenna

Key Features:

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

Dimensions: 64.1 mm × 35 mm × 25.33 mm

Efficiency: Up to 73.62 %

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

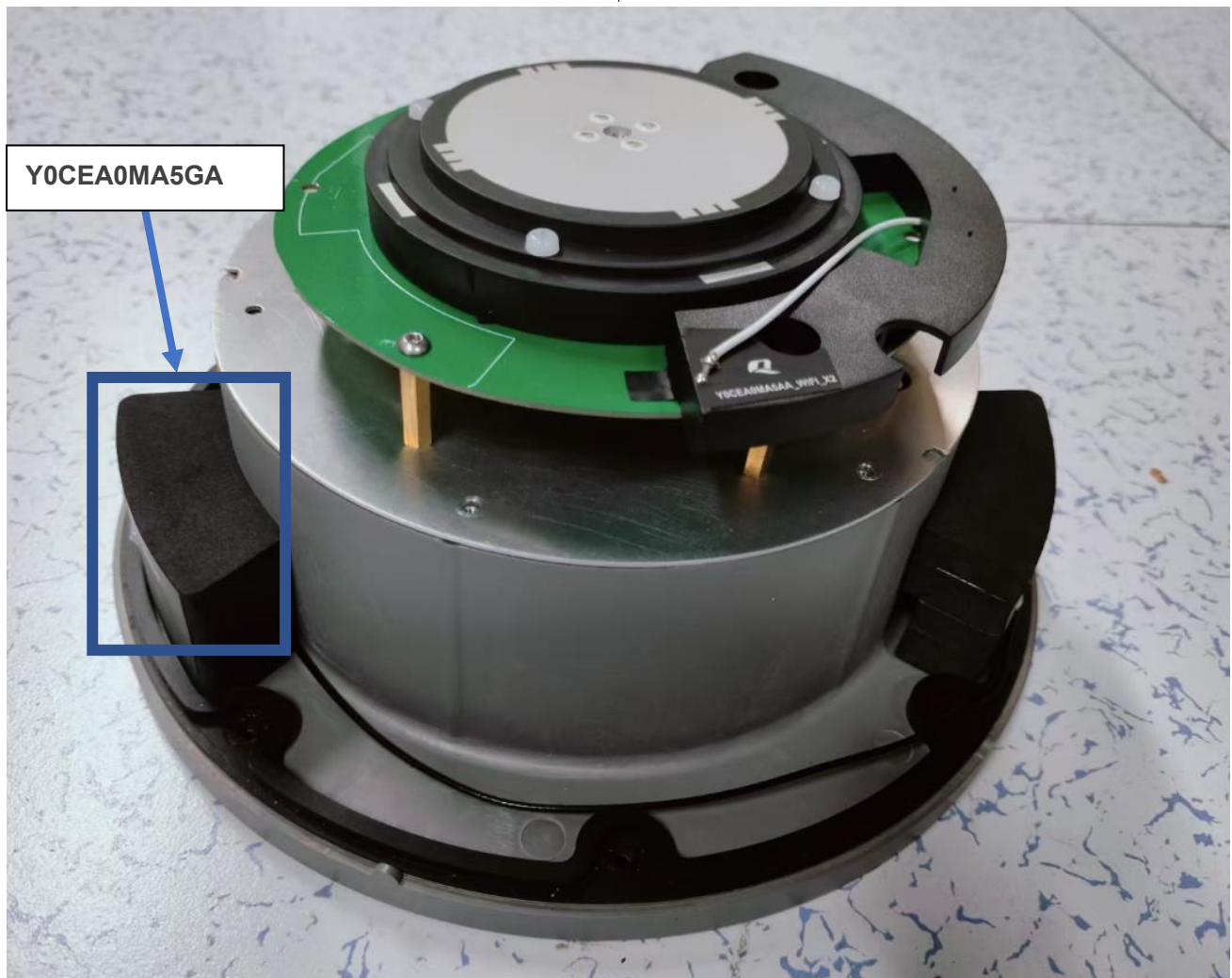
Electrical	
Frequency Range	698–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 6.5
Peak Gain	4.5 dBi

1.2. Mechanical & Environmental

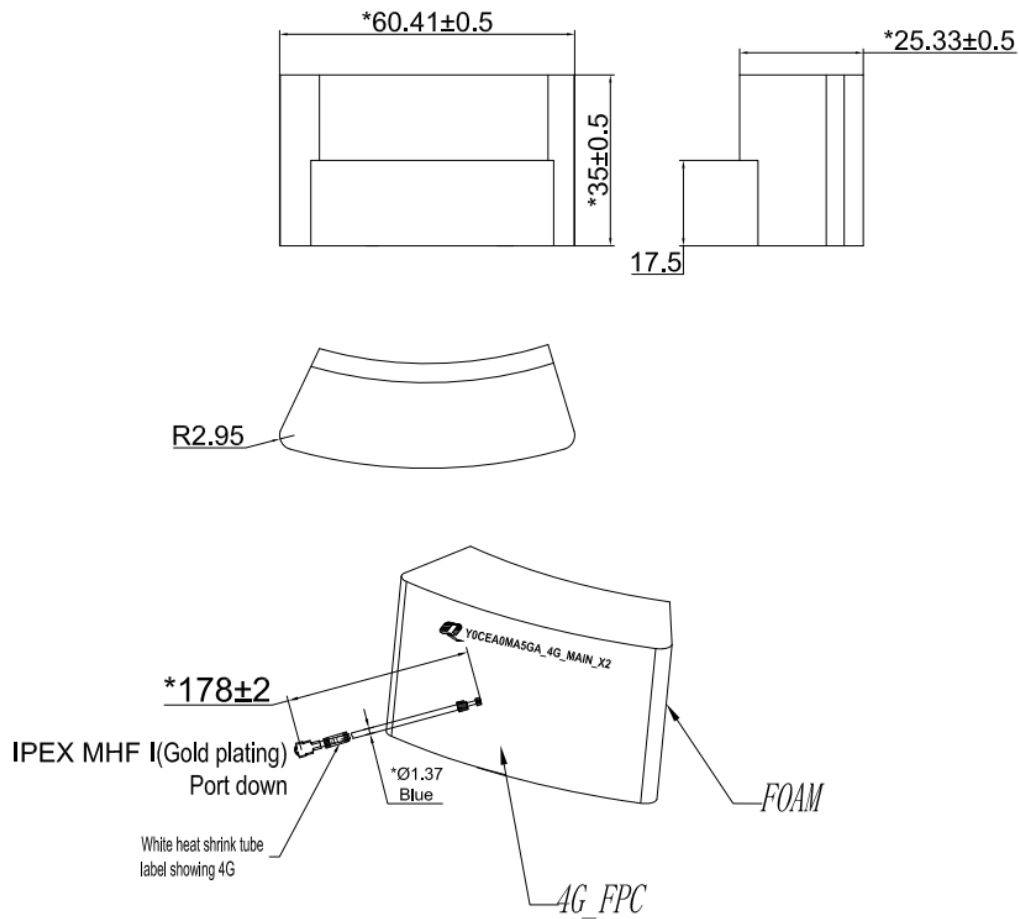
Mechanical	
Antenna Dimensions	60.41 mm × 35 mm × 25.33 mm
Material & Color	FPC+EVA & Black
Cable Type & Color & Length	$\Phi 1.37$ & Blue & 178mm
Connector Type	IPEX MHF 1
Weight	Typ. 7.0 g
Mounting Type	Adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C

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

1.3. Antenna Assembly



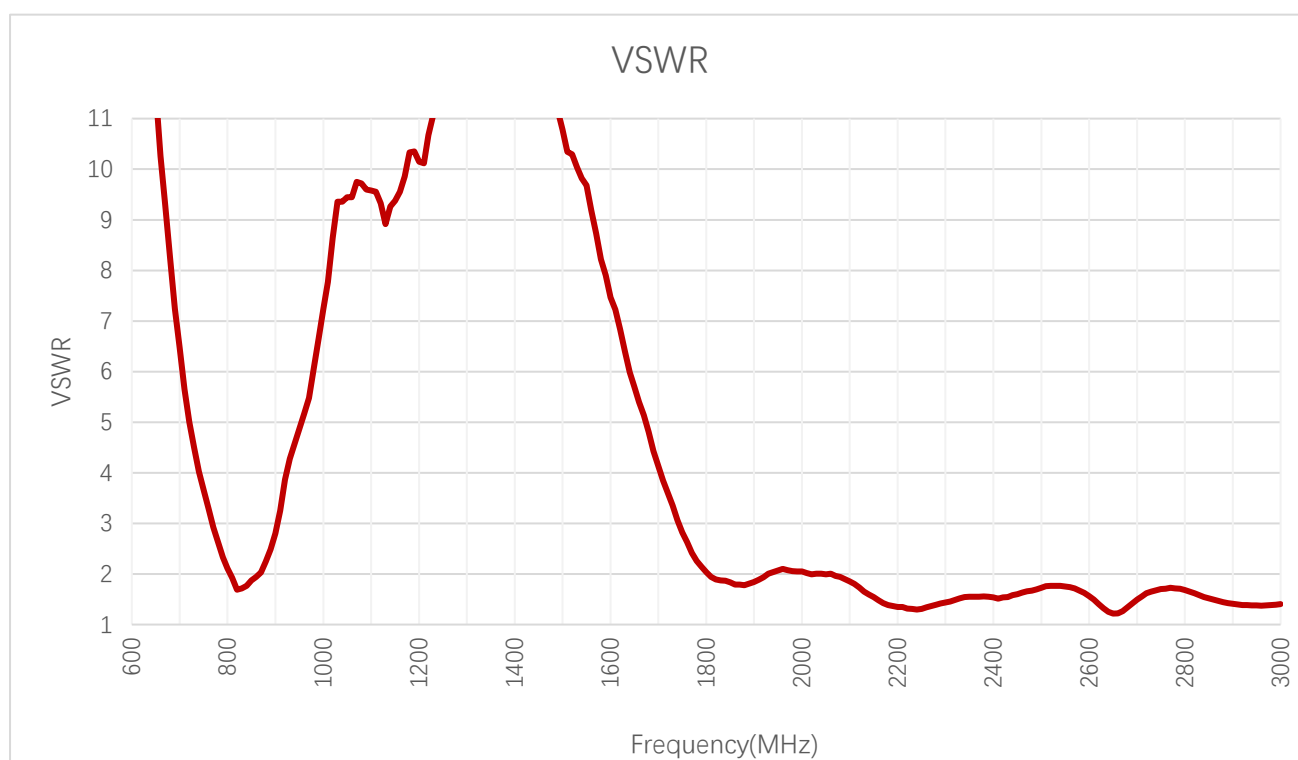
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

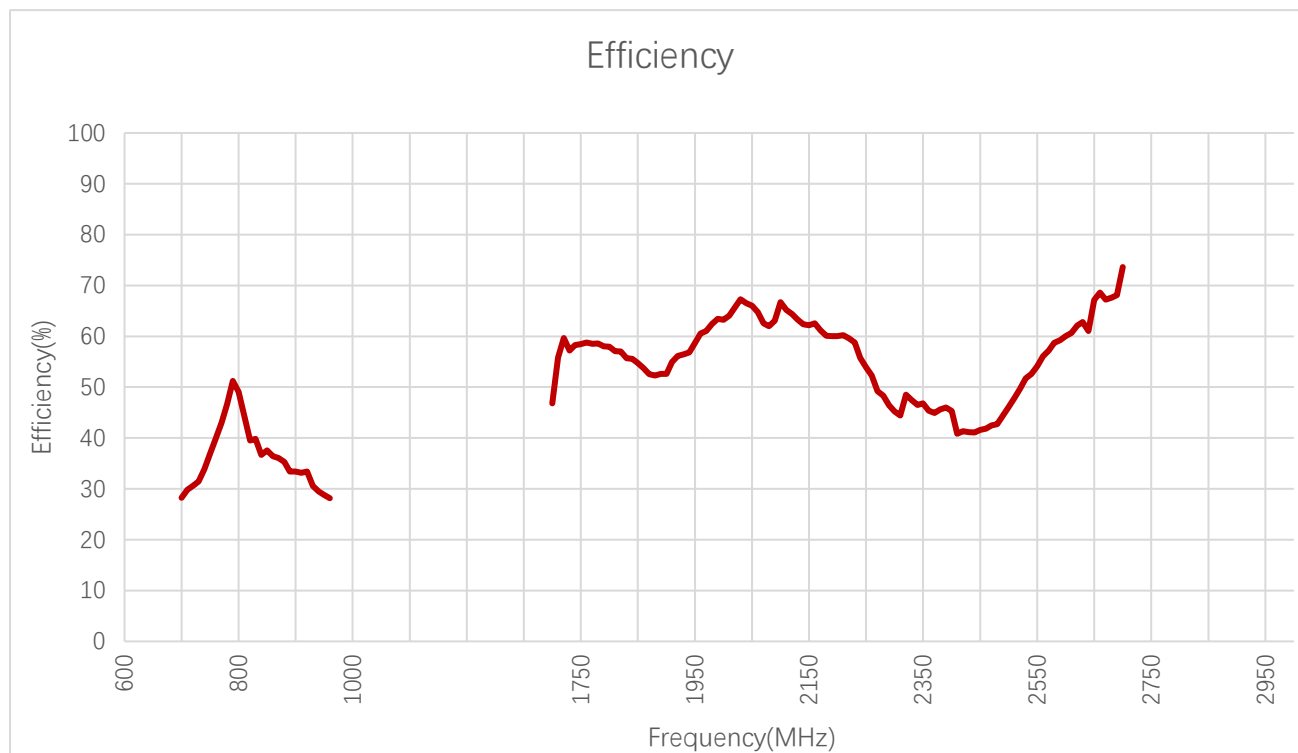


VSWR

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
VSWR	-	-	5.7	1.7	2.8	5.2	-	3.8	3.1	1.8
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	2.1	1.6	1.5	1.6	1.6	1.4	-	-	-	-

3.2. Radiation Performance Test

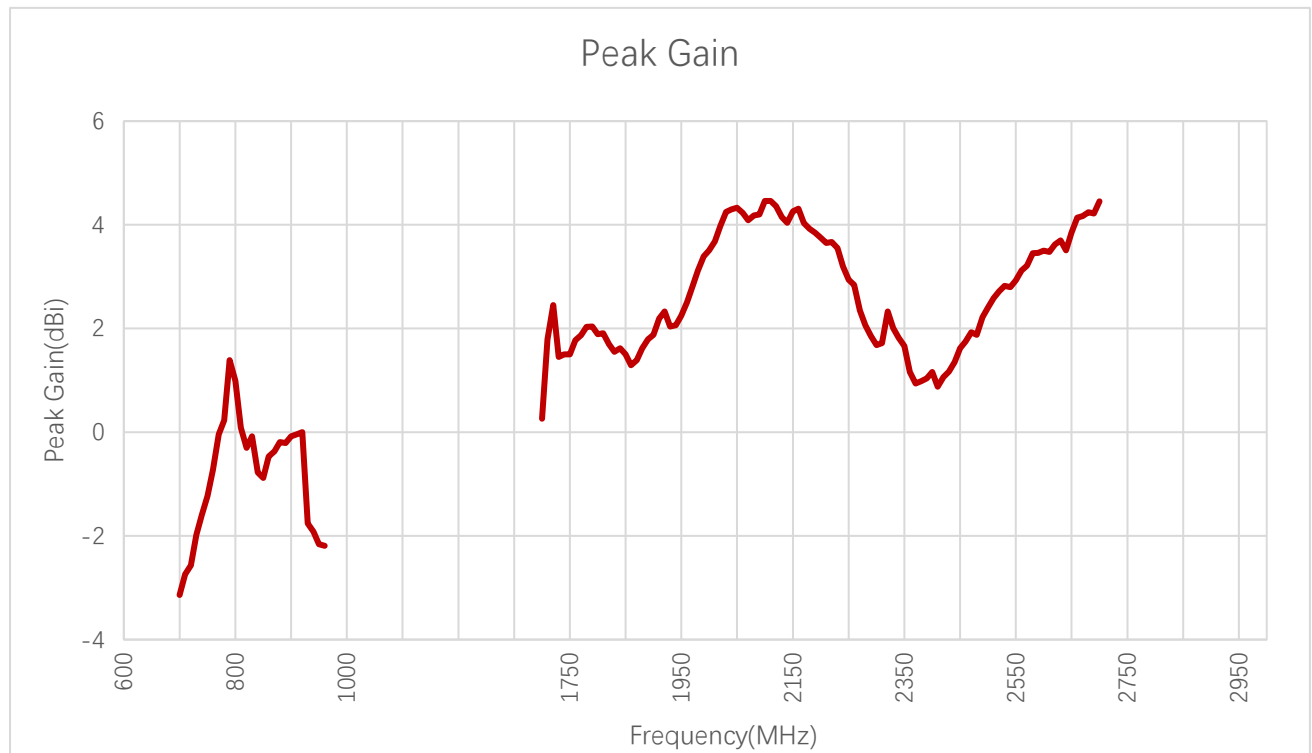
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Efficiency (%)	-	-	29.8	39.8	33.4	28.2	-	55.9	58.3	52.3
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	58.7	62.3	46.8	41.6	60.1	68.1	-	-	-	-

3.2.2. Peak Gain

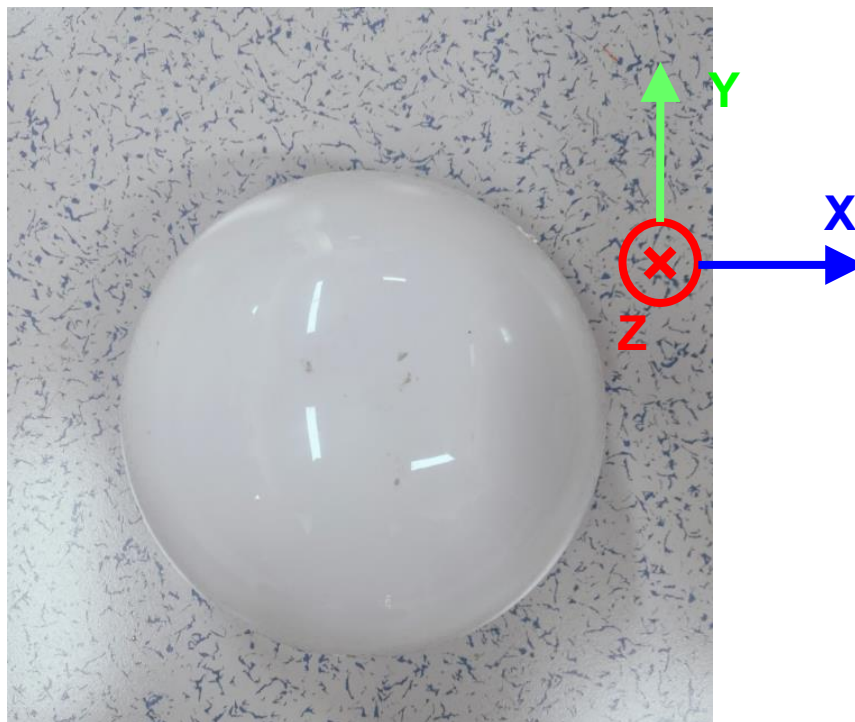


Peak Gain (dBi)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Peak Gain (dBi)	-	-	-2.7	-0.1	-0.1	-2.2	-	1.8	1.5	1.6
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Peak Gain (dBi)	2.3	4.0	1.7	1.6	3.5	4.2	-	-	-	-

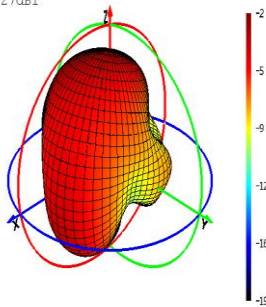
3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1

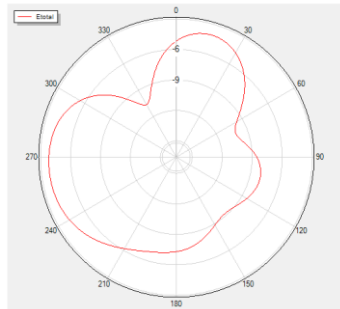


710 MHz

MAX:-2.74dBi
MIN:-20.27dBi

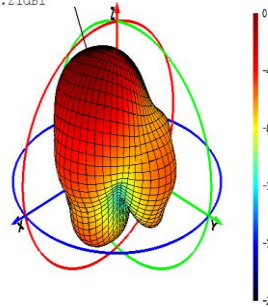


Theta=90 Freq=710MHz

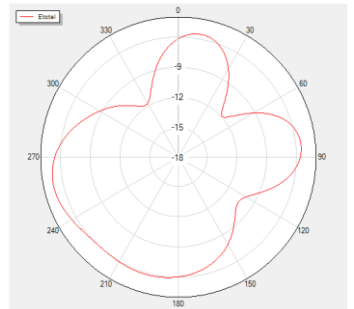


830 MHz

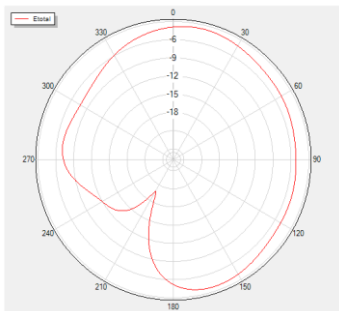
MAX:-0.08dBi
MIN:-22.21dBi



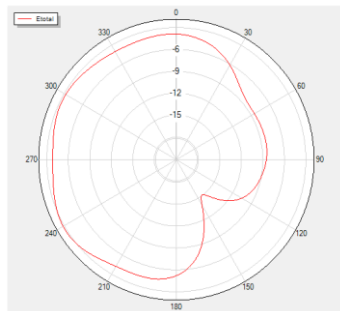
Theta=90 Freq=830MHz



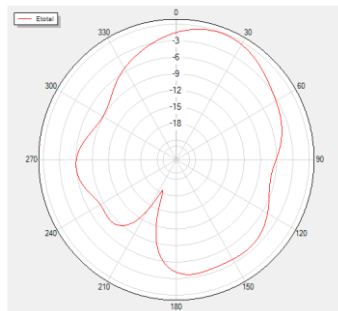
Phi=0 Freq=710MHz



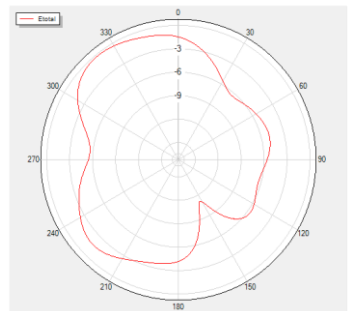
Phi=90 Freq=710MHz



Phi=0 Freq=830MHz

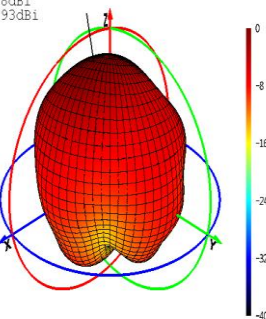


Phi=90 Freq=830MHz

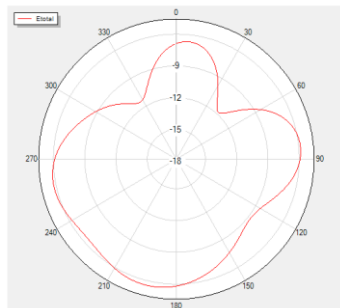


900 MHz

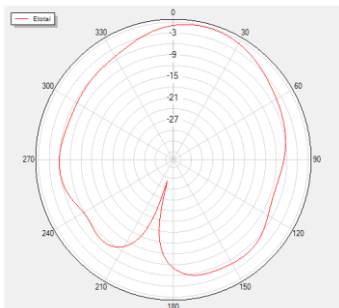
MAX:-0.08dBi
MIN:-40.93dBi



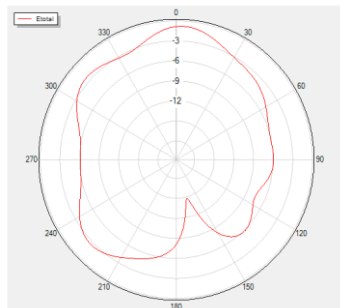
Theta=90 Freq=900MHz

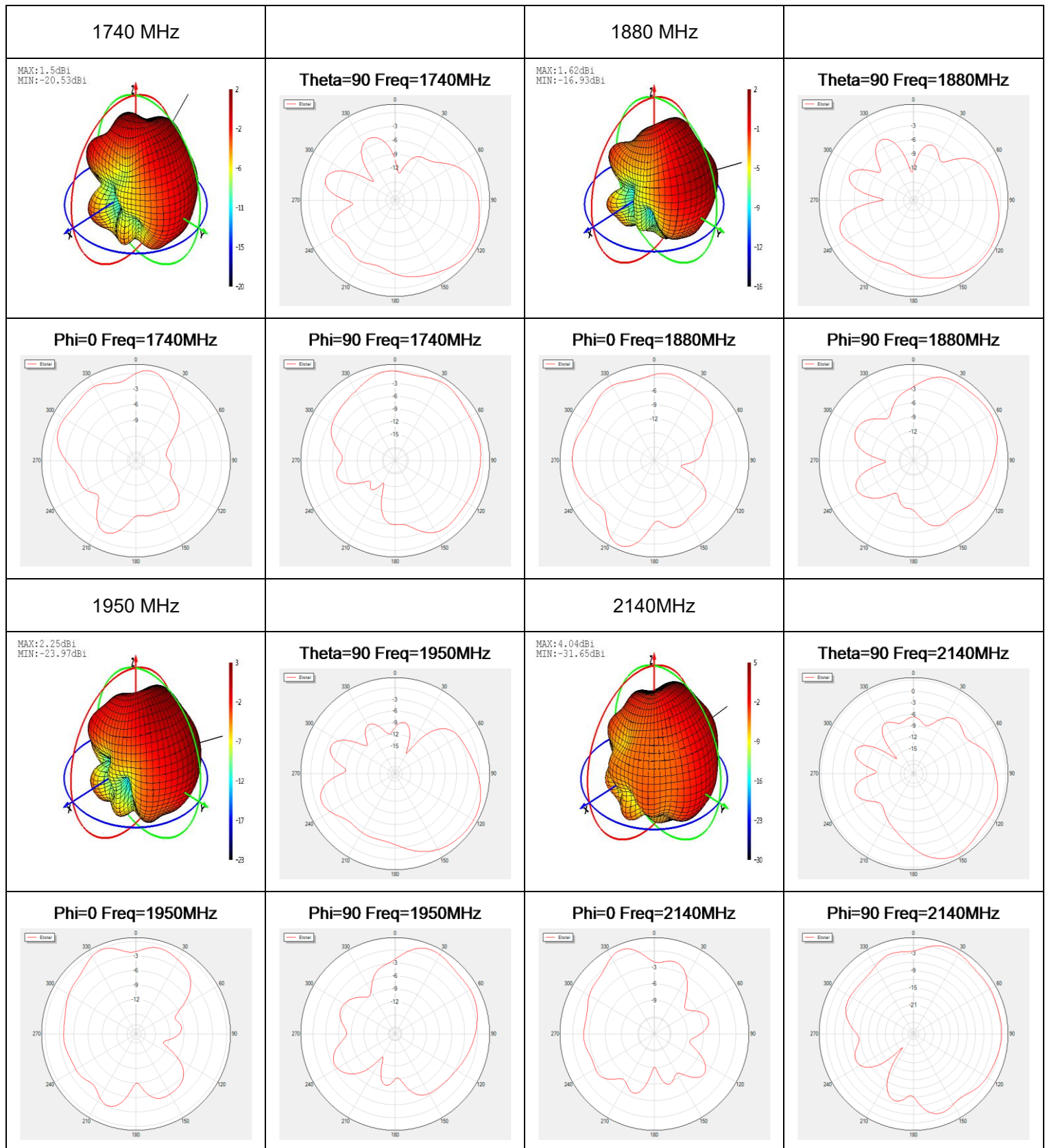


Phi=0 Freq=900MHz



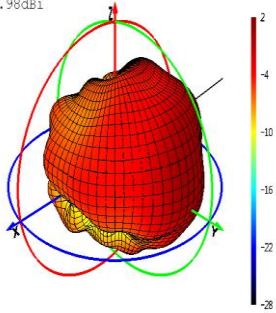
Phi=90 Freq=900MHz



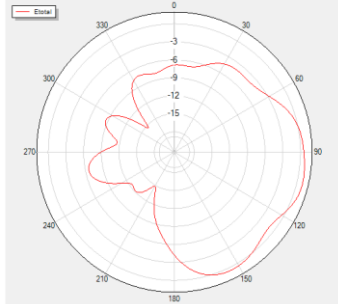


2350 MHz

MAX:1.66dBi
MIN:-28.96dBi

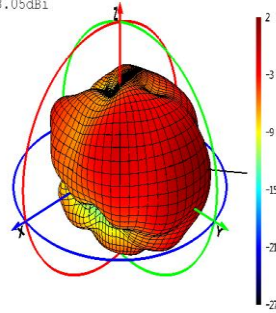


Theta=90 Freq=2350MHz

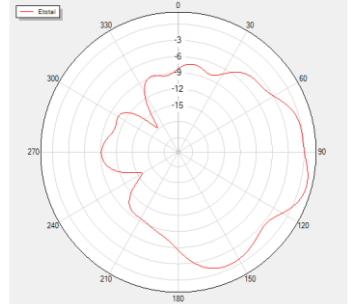


2450 MHz

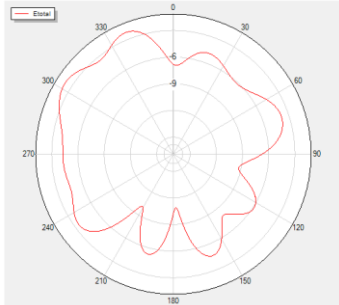
MAX:1.62dBi
MIN:-28.05dBi



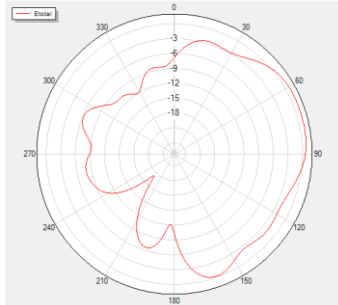
Theta=90 Freq=2450MHz



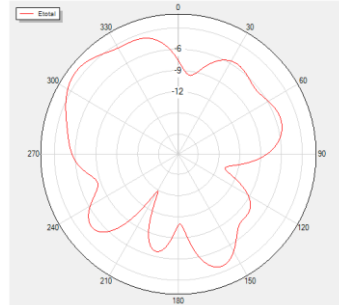
Phi=0 Freq=2350MHz



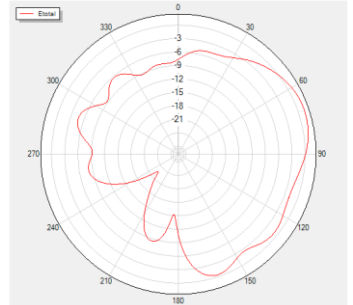
Phi=90 Freq=2350MHz



Phi=0 Freq=2450MHz

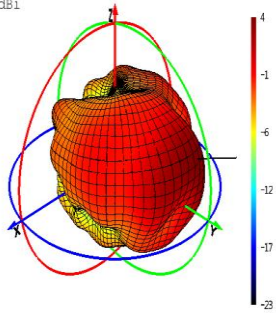


Phi=90 Freq=2450MHz

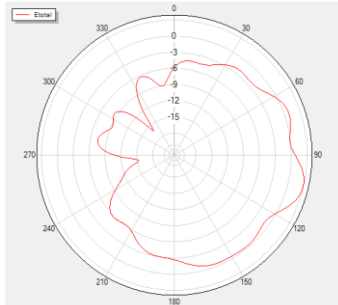


2600 MHz

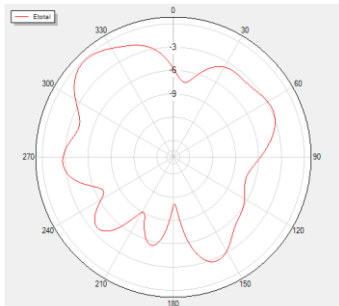
MAX:3.53dBi
MIN:-24dBi



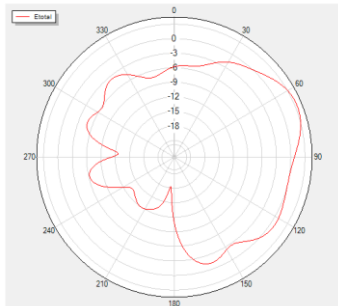
Theta=90 Freq=2600MHz



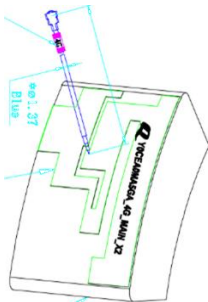
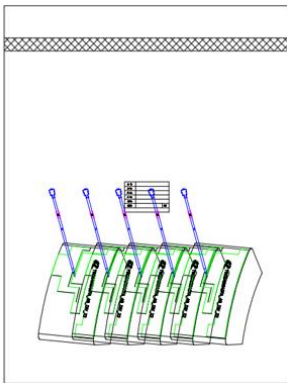
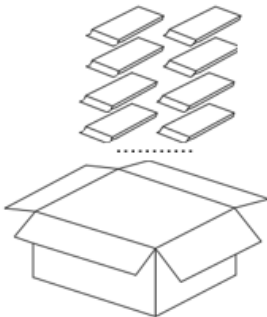
Phi=0 Freq=2600MHz

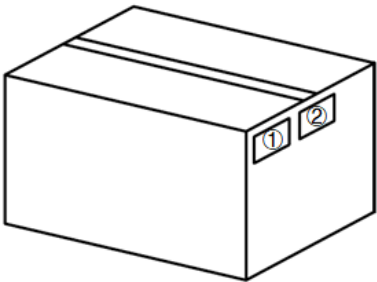
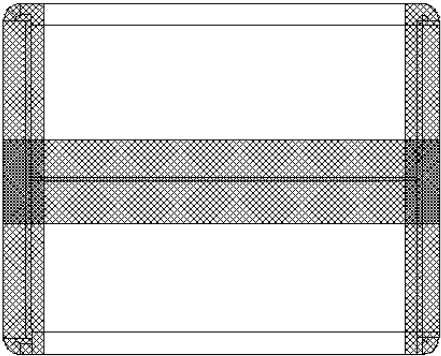


Phi=90 Freq=2600MHz



4 Packaging

Step	Packaging Picture / 2D Picture	Description
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3		(20 PE Bags / Carton Box) (200 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 370 × 370 × 295 mm</u>

4		Position for Attaching Labels ① Carton Label ② Quality Label
5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

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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

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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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