Datasheet

Asteor

Part No:
CMA100.A.BIVW.002

Description

C-Band 5G 4*MIMO Ceiling Mount Antenna with 300mm TGC-302 SMA (M)

Features:

4x4 C-Band/CBRS Ceiling/Wall Mount Antenna

Omnidirectional Radiation Patterns allow various mounting options

4 High performance 3.2-4.5GHz Elements

Dimensions: Ø200x35mm

IP67 Rated Enclosure

Cables: 300mm TGC-200

Connectors: SMA (M) Straight

RoHS and REACH Compliant

1. Introduction

The Asteor CMA100 is a ceiling/wall mount antenna designed for use in-building to provide coverage on C-Band/CBRS frequencies from 3300 to 4200MHz. This discrete product can be mounted inconspicuously on office walls or ceilings for private 5G networks. The antenna is mounted either by thread or by the 4 cornered through holes.

The C-Band frequency is becoming an extremely important part of the 5G spectrum, the C-Band provides an open frequency span for people who wish to establish a private network on this band for secure networking and fast speeds. C-band technology helps reduce outages and downtime in 5G networks. It accomplishes this by improving the reliability and strength of the signal.

Typical Applications include:

- Offices and Industrial Plants
- Stadiums and Theatres
- Warehouses
- First Responder Bases

The cables and connectors are fully customizable, for further information about this product please contact your regional Taoglas customer support team.

2. Specification

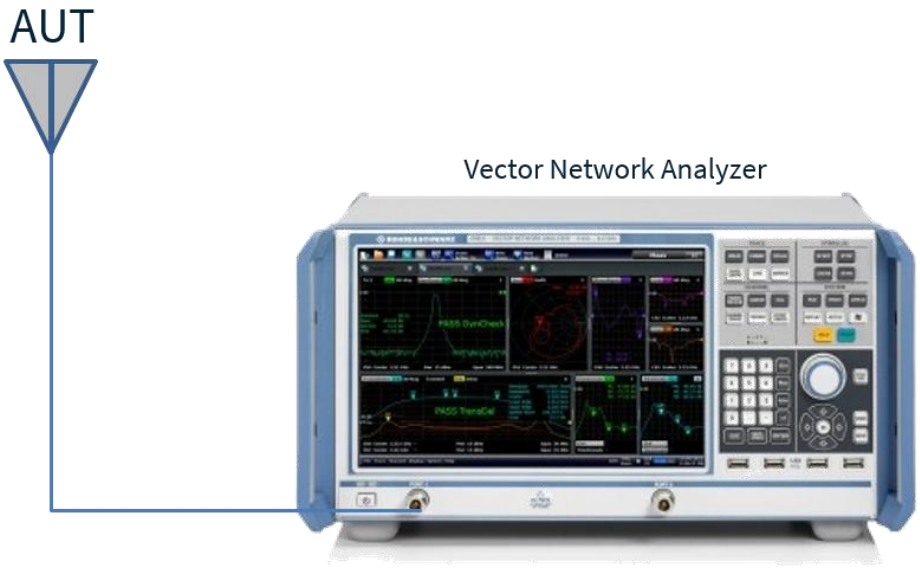
Wi-Fi Electrical									
Band	**Frequency (MHz)**	**Antenna**	**Efficiency (%)**	**Average Gain (dB)**	**Peak Gain (dBi)**	**Impedance**	**Polarization**	**Radiation Pattern**	**Max. input power**
5GNR 42,43,48,49,52,77,78	3300-4200	Ant1	54.6	-2.63	4.82	50 Ω	Linear	Omni	10W
		Ant2	57.3	-2.42	5.07				
		Ant3	51.1	-2.91	4.55				
		Ant4	54.6	-2.63	5.19				

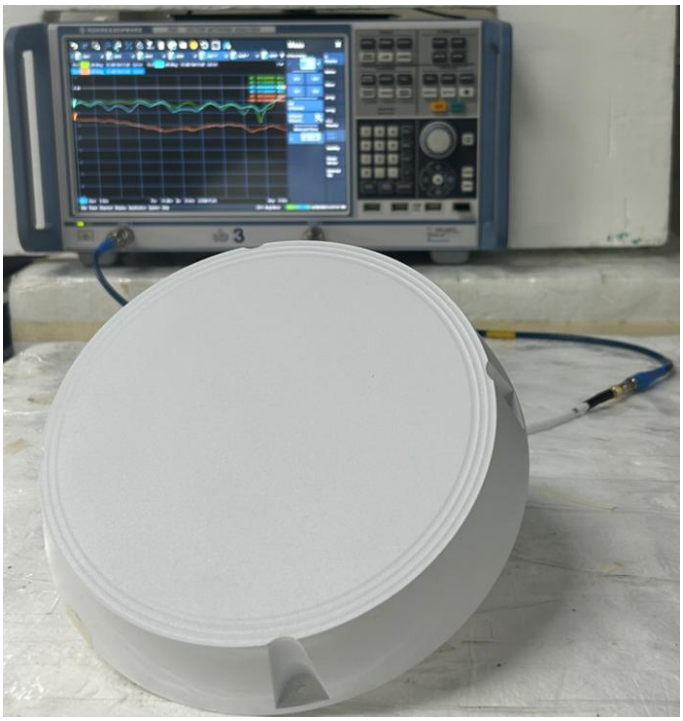
Mechanical	
Dimensions	Ø200 x 35mm
Weight	250g
Material	White ASA
Connector	SMA (M)
Cable	300mm TGC-200

Environmental	
Waterproof Rating	IP67
Operation Temperature	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH

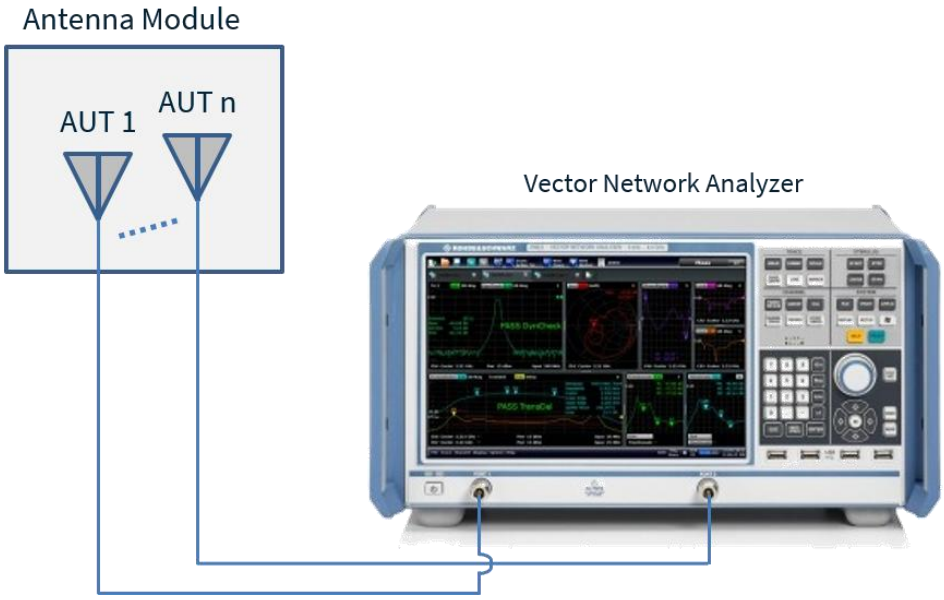
3. Antenna Characteristics

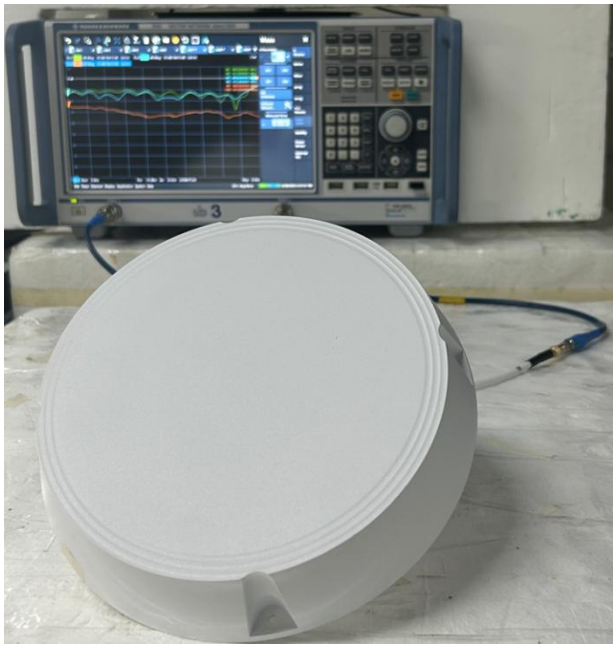
3.1 Test Setup – S11/VSWR/Return Loss



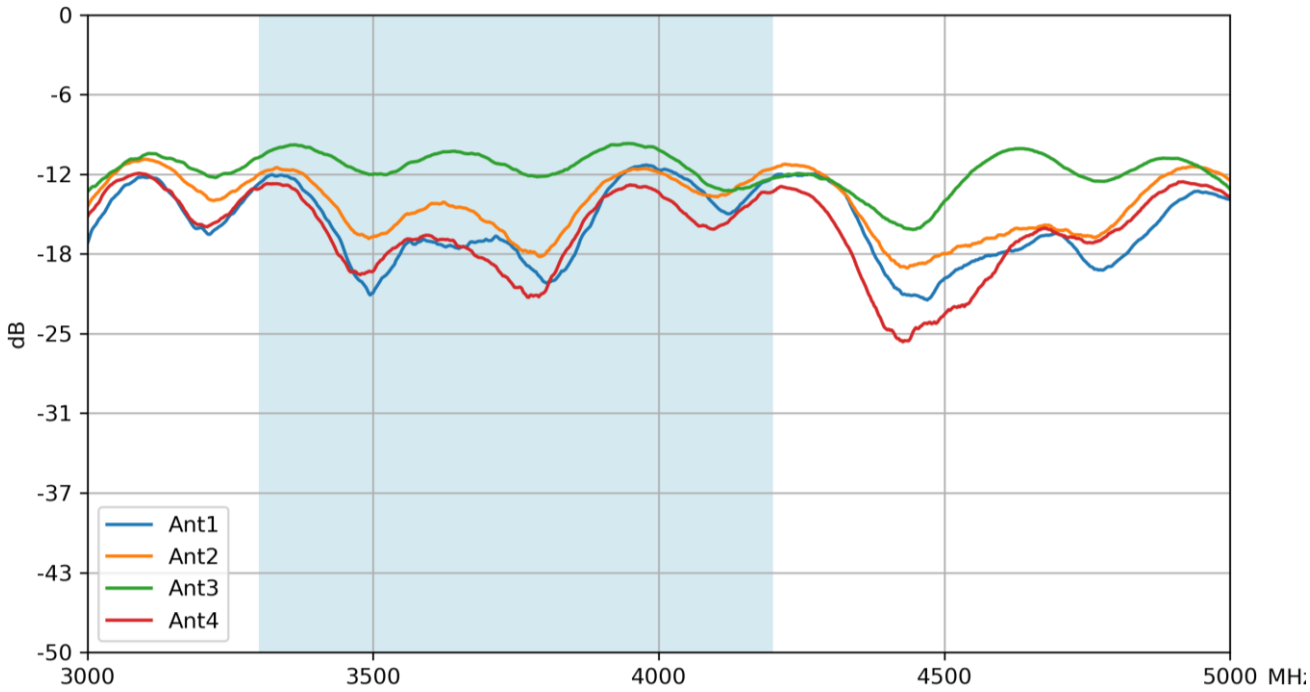


3.2 Test Setup – Isolation

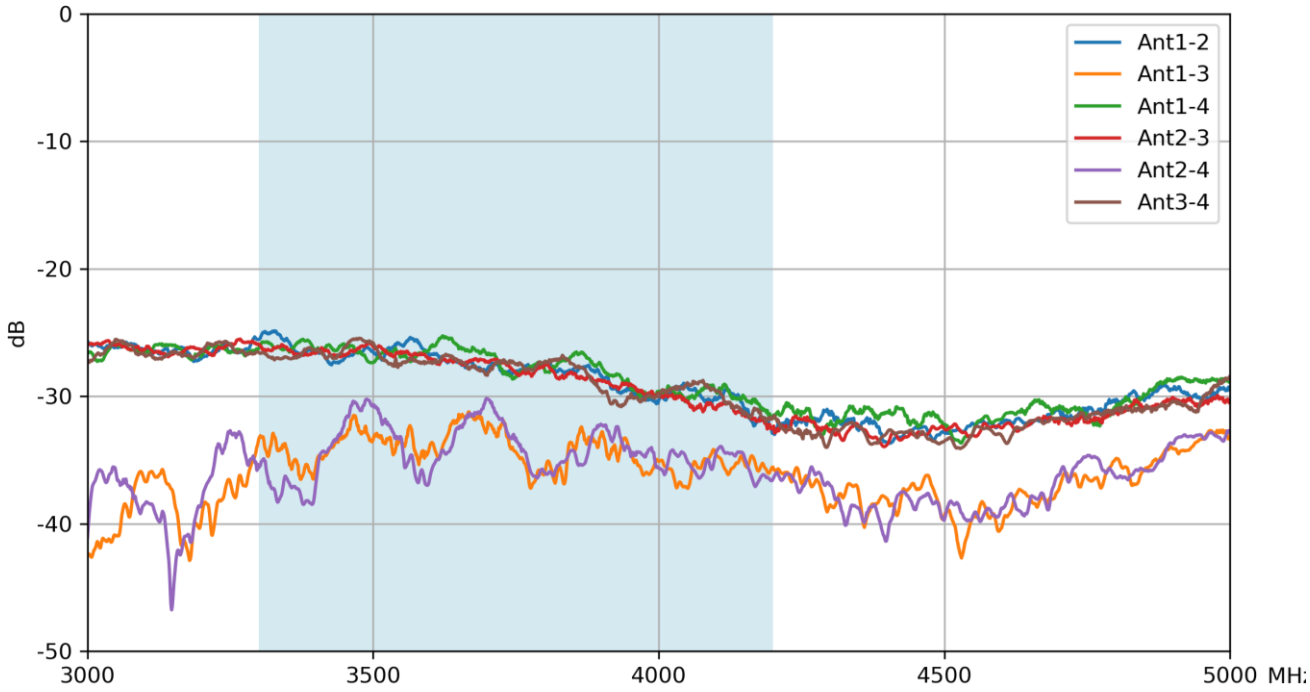




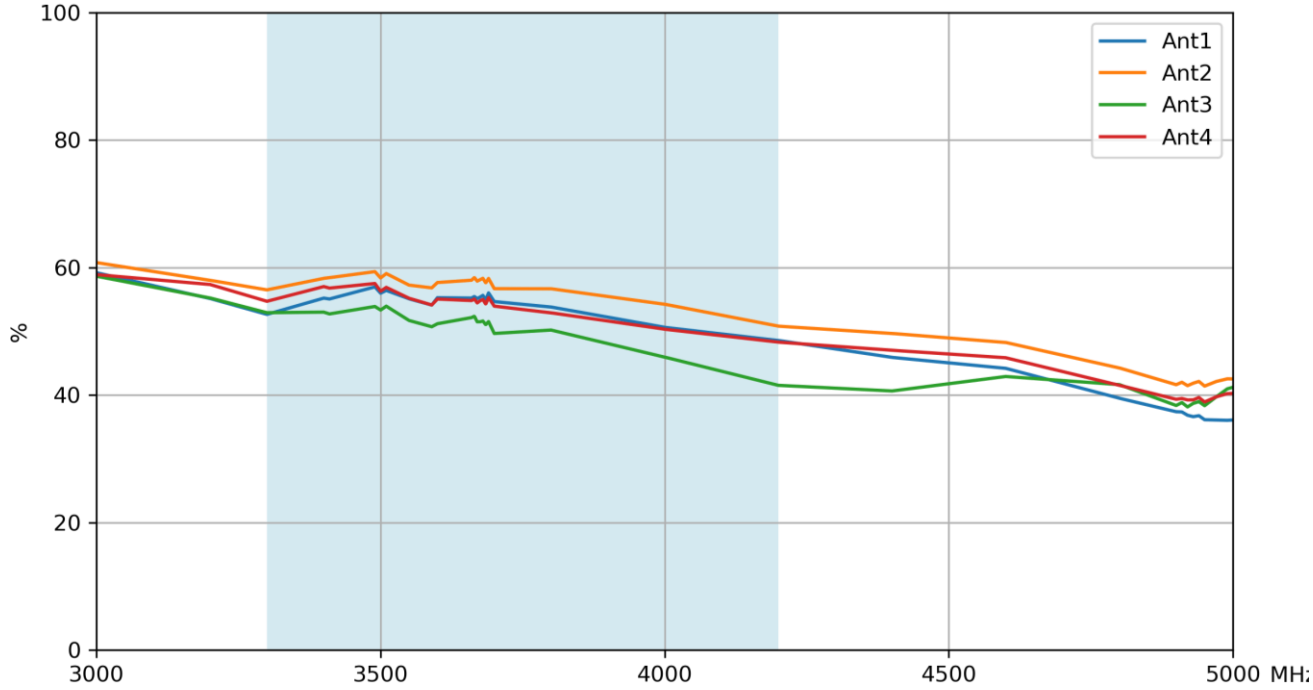
3.3 Return Loss



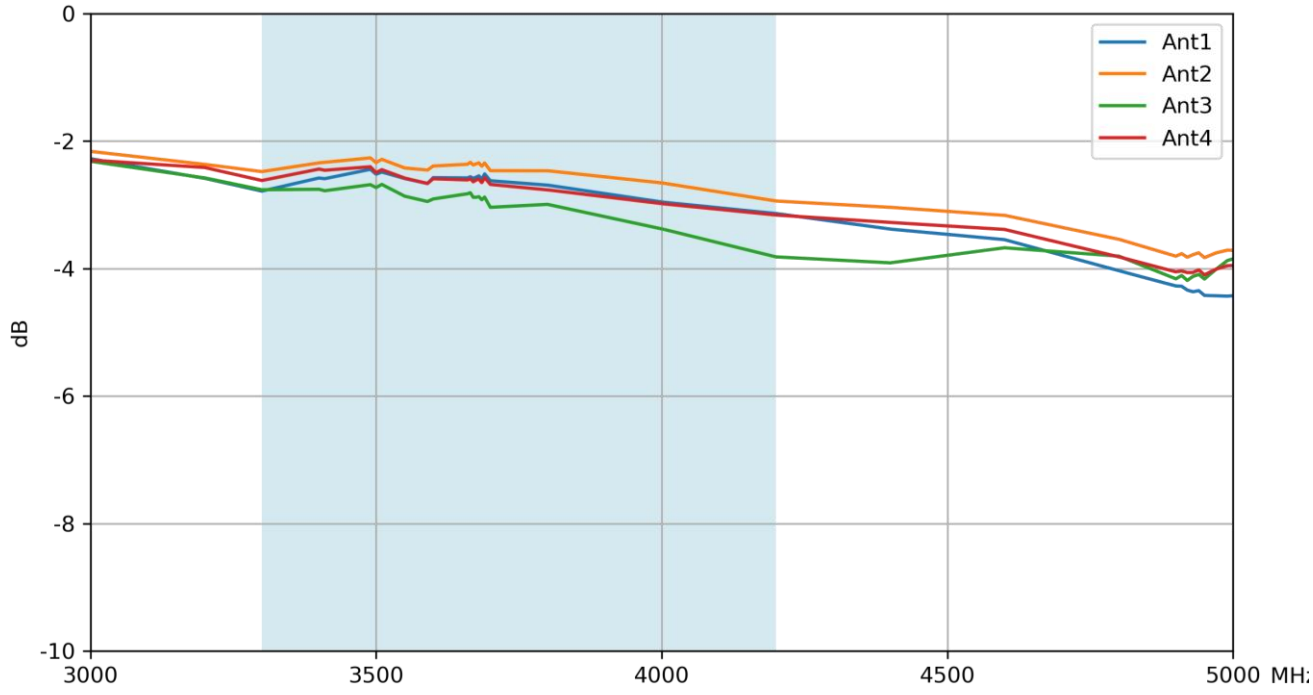
3.4 Isolation



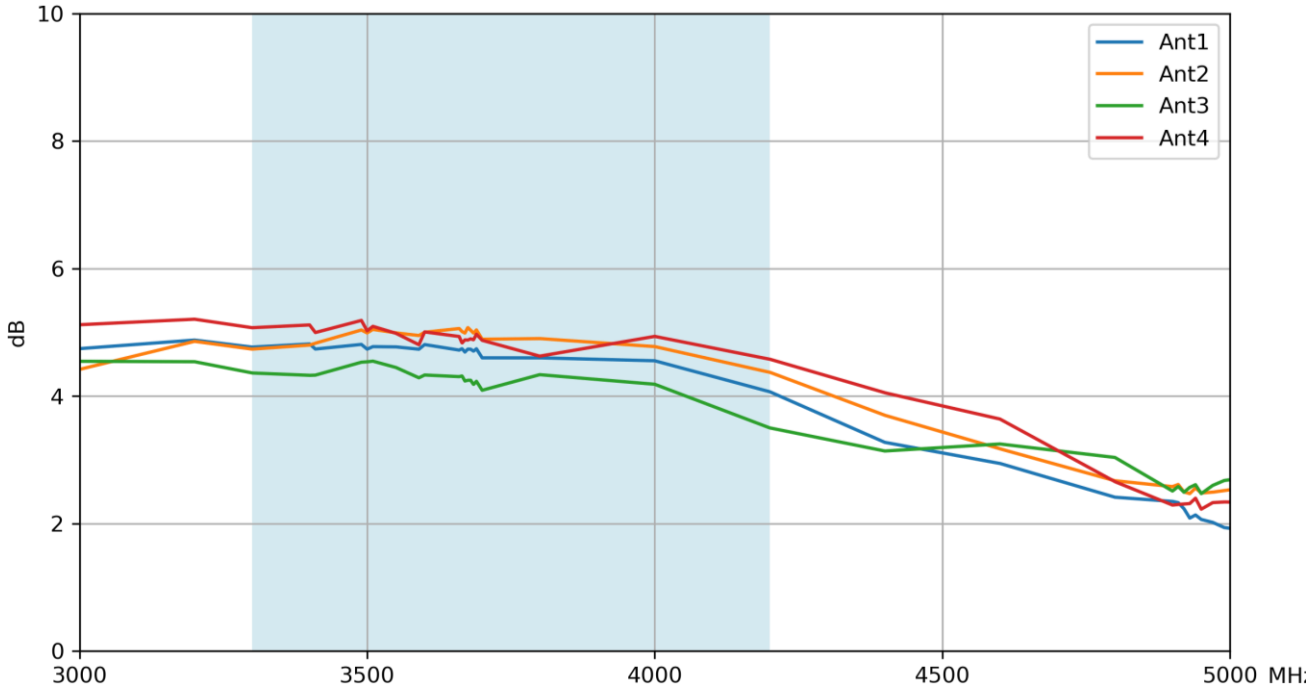
3.5 Efficiency



3.6 Average Gain

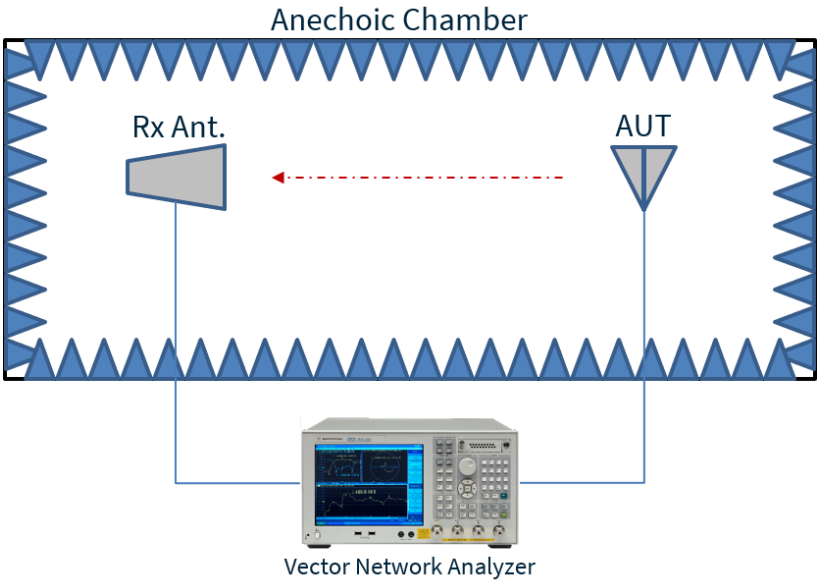


3.7 Peak Gain

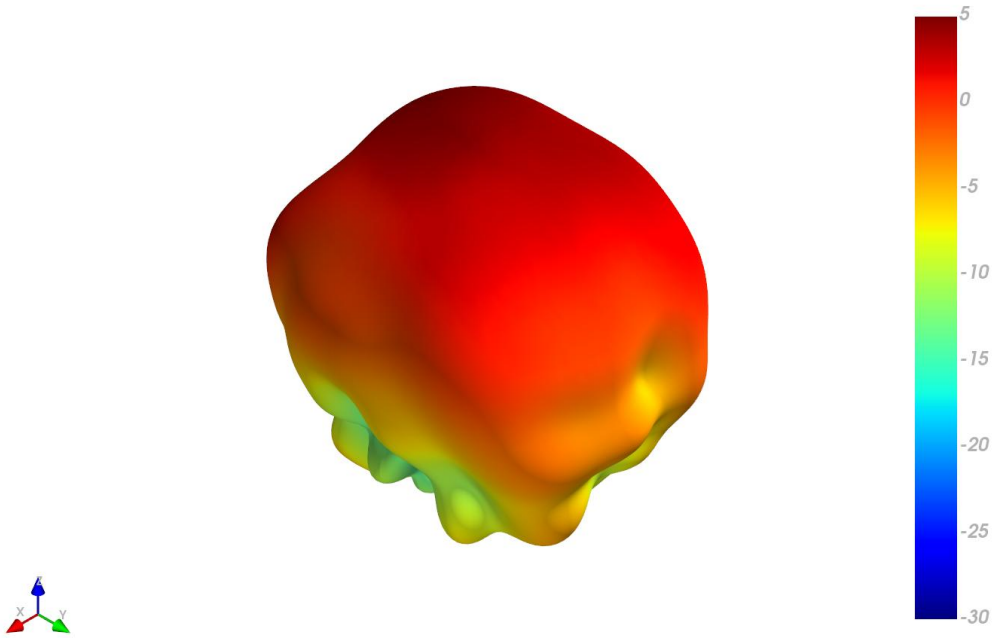


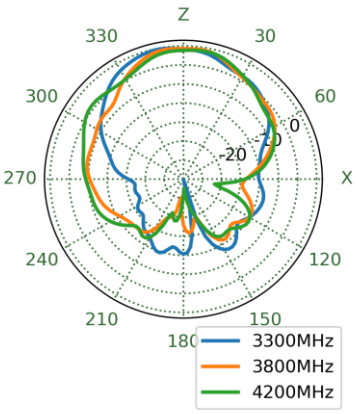
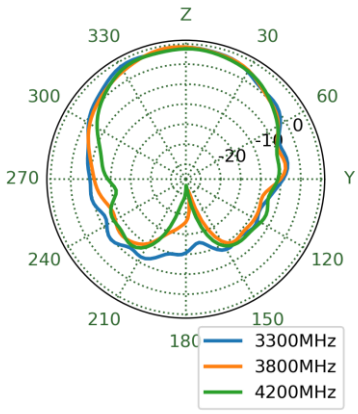
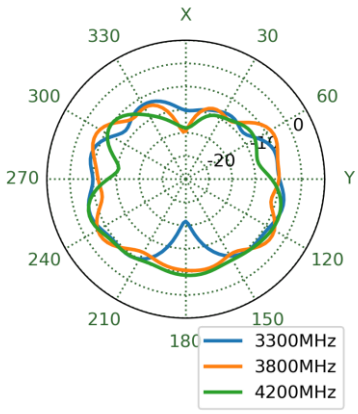
4. Radiation Patterns

4.1 Test Setup

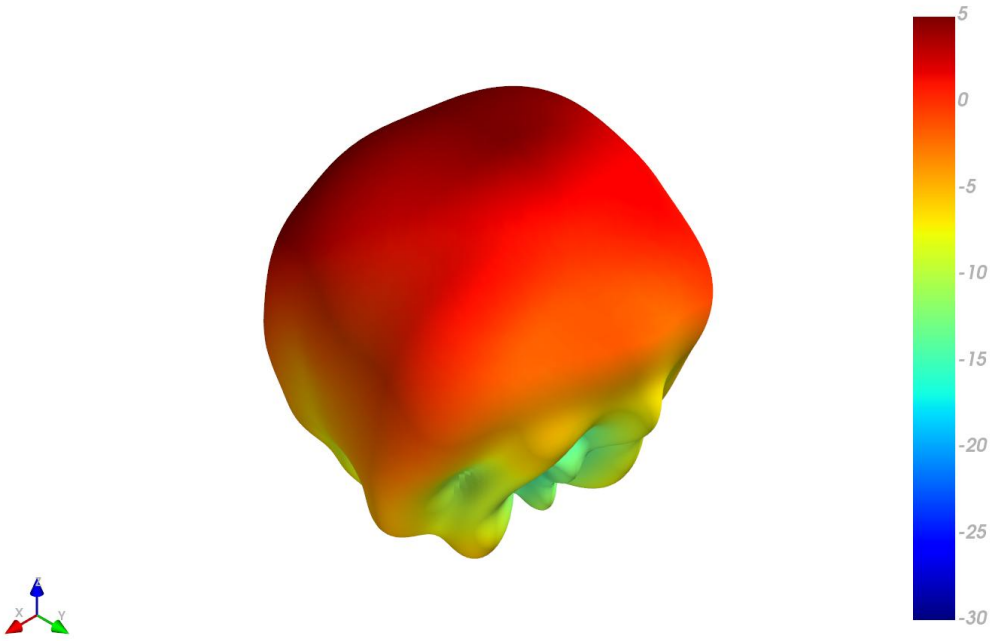


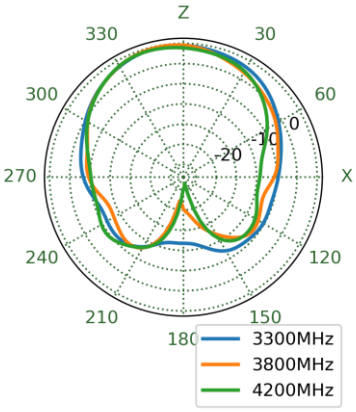
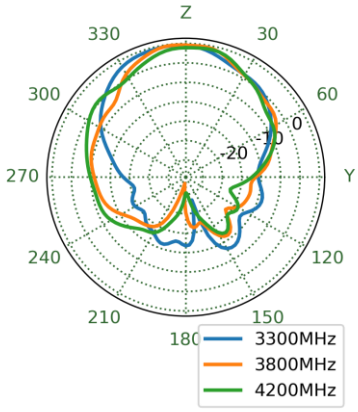
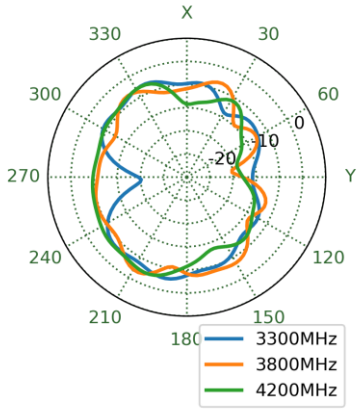
4.2 Antenna 1 - Patterns at 3800 MHz



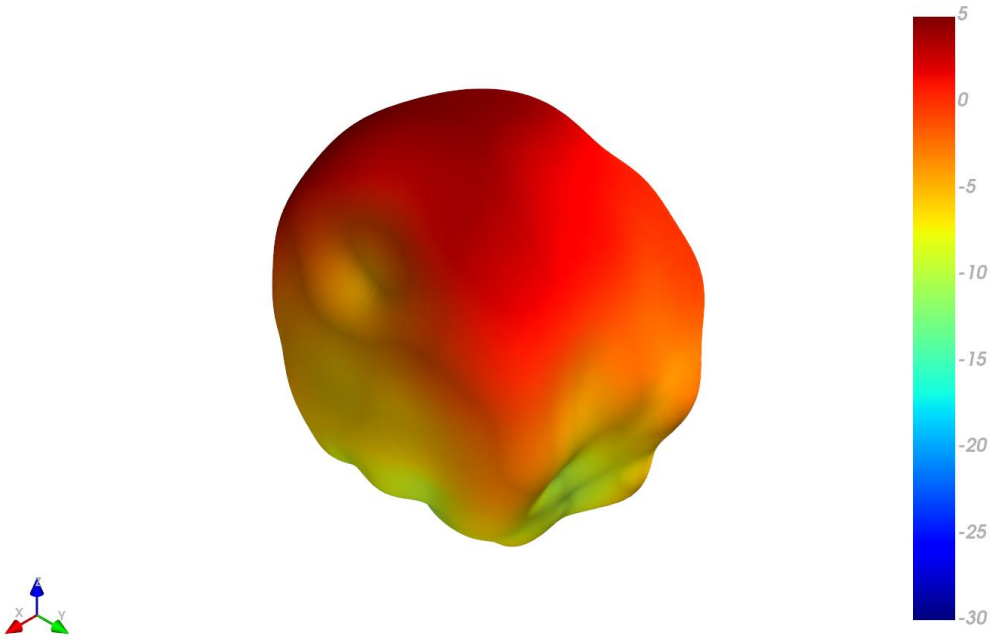
XZ Plane	YZ Plane	XY Plane
		

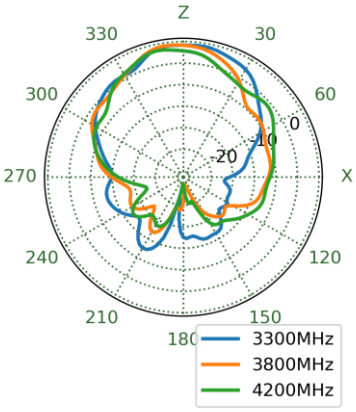
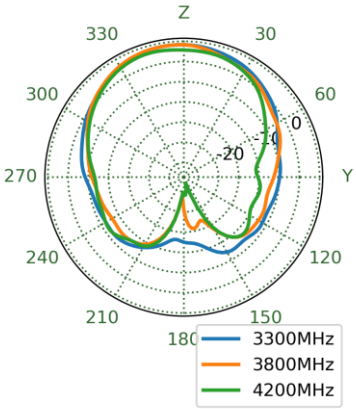
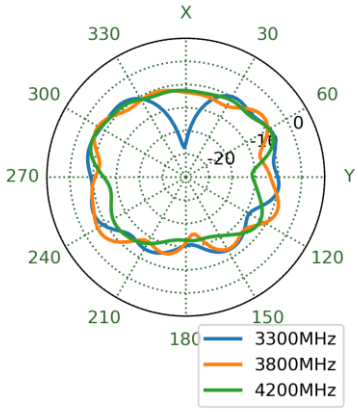
4.3 Antenna 2 - Patterns at 3800 MHz



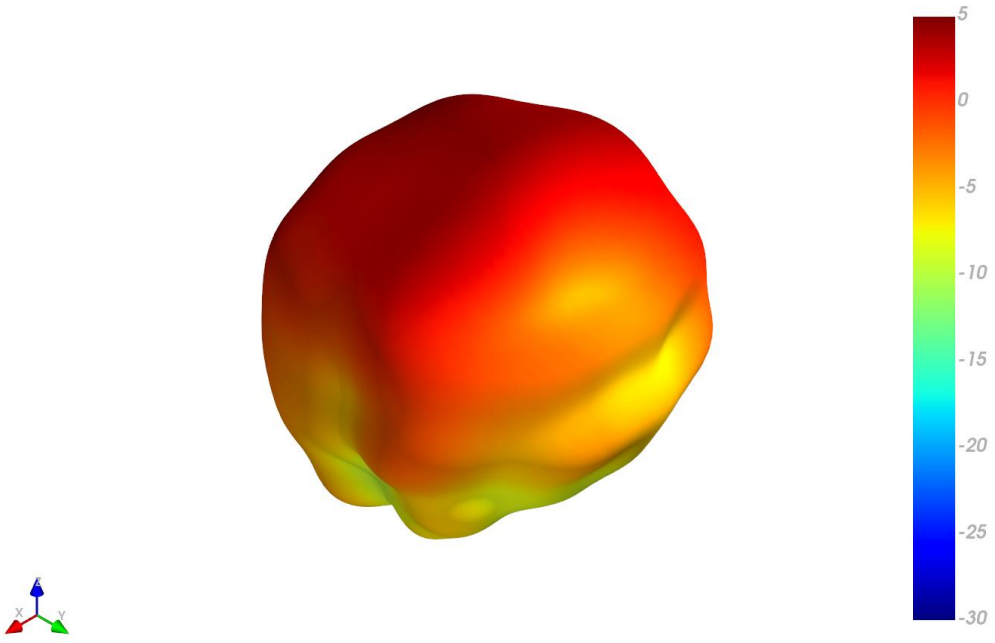
XZ Plane	YZ Plane	XY Plane
		

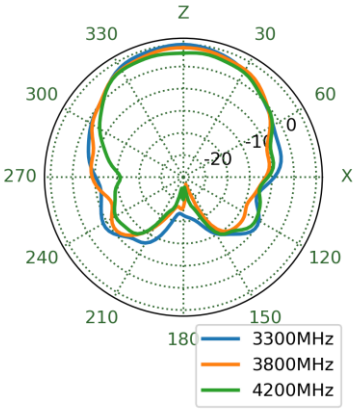
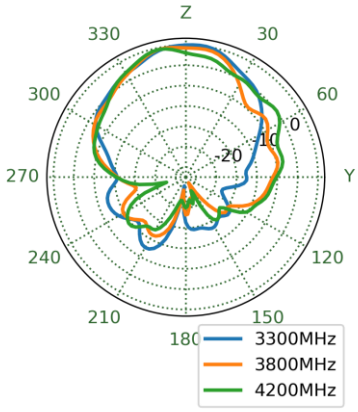
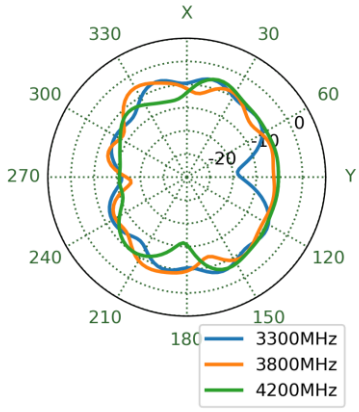
4.4 Antenna 3 - Patterns at 3800 MHz



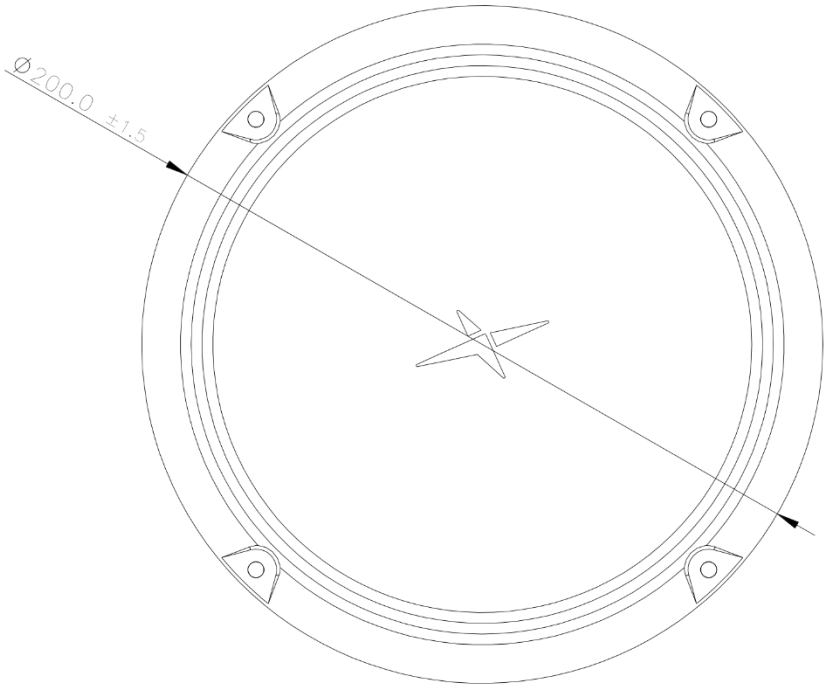
XZ Plane	YZ Plane	XY Plane
		

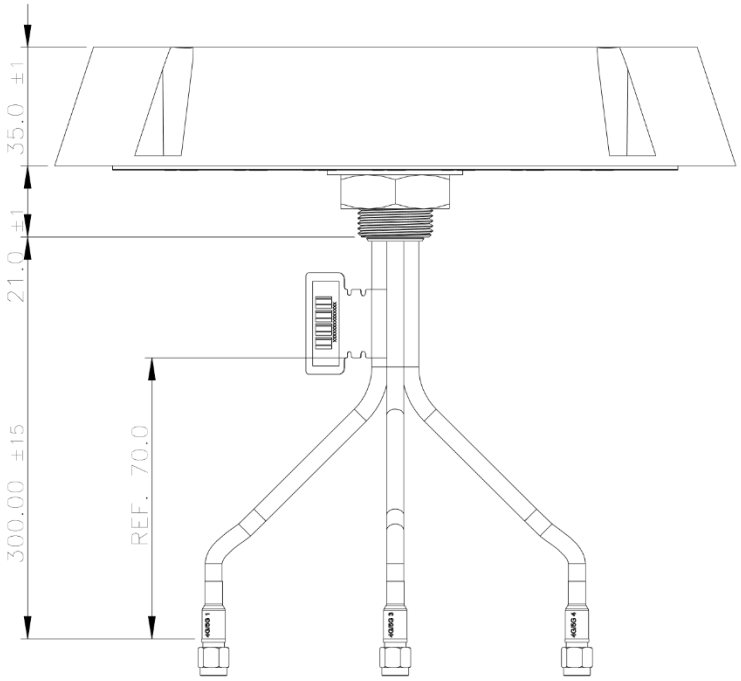
4.5 Antenna 4 - Patterns at 3800 MHz



XZ Plane	YZ Plane	XY Plane
		

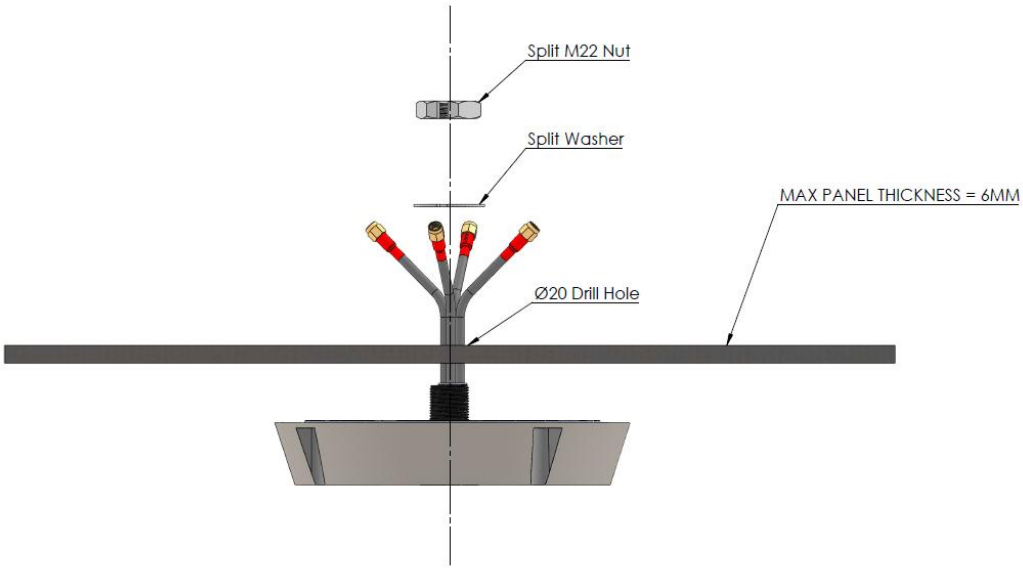
5. Mechanical Drawing



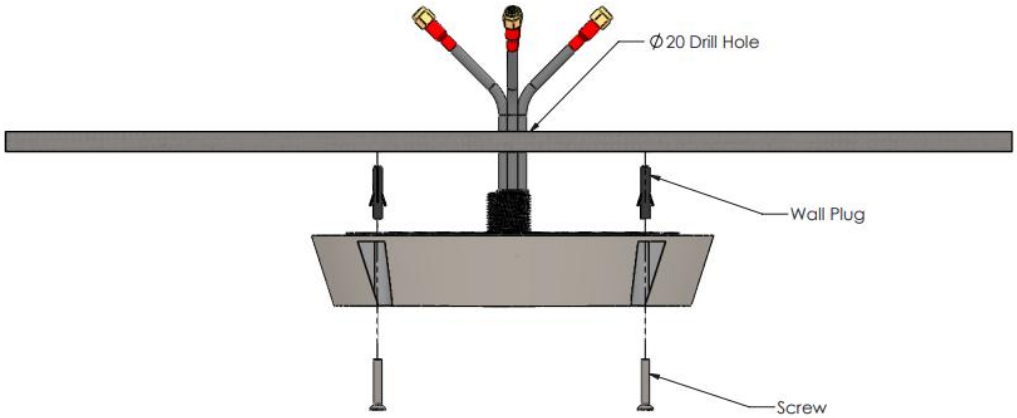


6. Installation Recommendation

6.1 Thread Mounting

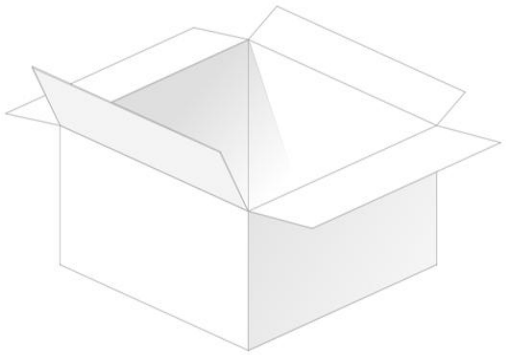


6.2 Screw Mounting



7. Packaging

1 pc CMA100.A.BIVW.002 per PE Bag
Weight: 255g



12 pcs / Carton
Carton: 650x470x270 mm
Weight: 10 kg
Carton Label

Changelog for the datasheet

SPE-23-8-218 - CMA100.A.BIVW.002

Revision: C (Current Version)	
Date:	2025-10-20
Notes:	Updated EDW and changed connector information front cover as was incorrect.
Author:	Gary West

Previous Revisions

Revision: B	
Date:	2024-05-31
Notes:	Installation Recommendation added
Author:	Cesar Sousa

Revision: A (Original First Release)	
Date:	2023-07-17
Notes:	
Author:	Gary West

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