

# MEA-700-2700-N

## Omnidirectional Outdoor Antenna

Part #: 100-00366-01

### Description

The MEA-700-2700-N is a high performance ultra-rugged antenna that covers a broad frequency range of 700MHz - 960MHz, and 1700 MHz -2700 MHz The MEA-700-2700-N is a dipole antenna which is ideal for various installations for IOT, smart metering, digital signage and industrial monitoring. The antenna is supplied with a N-Type connector and is light weight. The UV resistant coated fiberglass housing makes this antenna suitable to be mounted in very challenging robust outdoor environments. The antenna is IP 65

### Electrical Specifications

Parameter	Specifications
Frequency range	700-2700 MHz
Efficiency (%)	~76
VSWR	2.5:1 MAX
Peak Gain (dBi)	4.5 dBi
Impedance (Ohm)	50
Polarisation	Vertical (Linear)
Radiation Pattern	Omni-directional

### Features

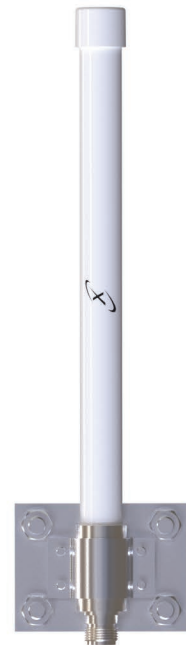
- 4G/3G/2G bands
- Omnidirectional Radiation Pattern
- 4.5 dBi Peak Gain
- IP65
- N type connector
- Mounting bracket included
- RoHS compliant

### Mechanical Specifications

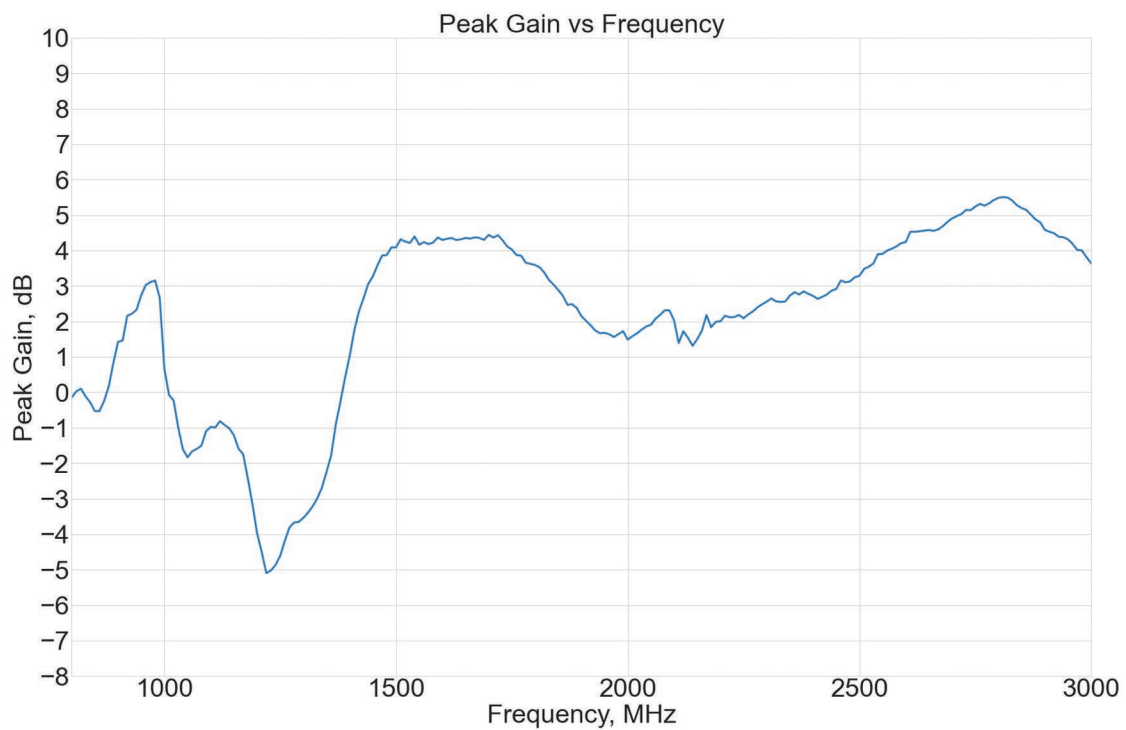
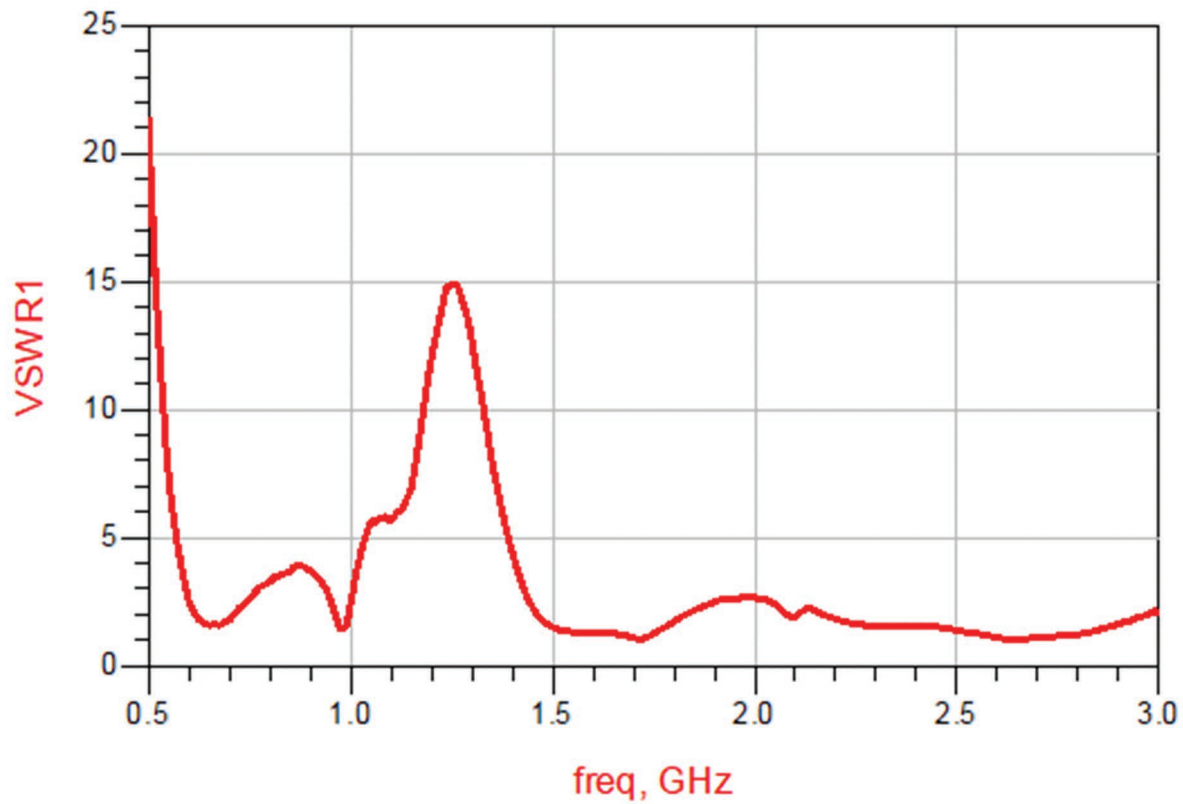
Parameter	Specifications
Length	350mm
Operating Temperature	-20 °C ~ +70 °C
Storage Temperature	-30 °C ~ +80 °C
Antenna Diameter	20mm
Application	Indoor/Outdoor
Radome Material	Fiberglass
Bracket Material	Aluminum
Internal Material	Copper
Connector	N Type
Antenna Base	Zamak

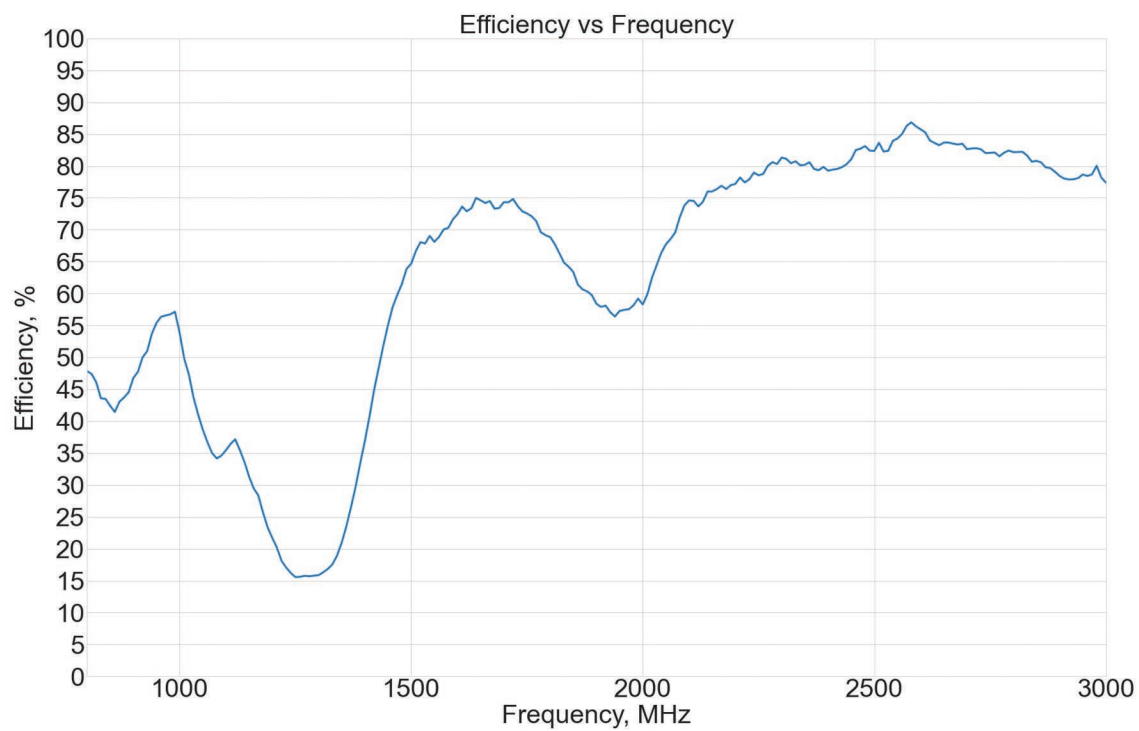
### Applications

- M2M applications
- IoT
- Telematics
- Asset tracking
- Fleet tracking
- Automotive

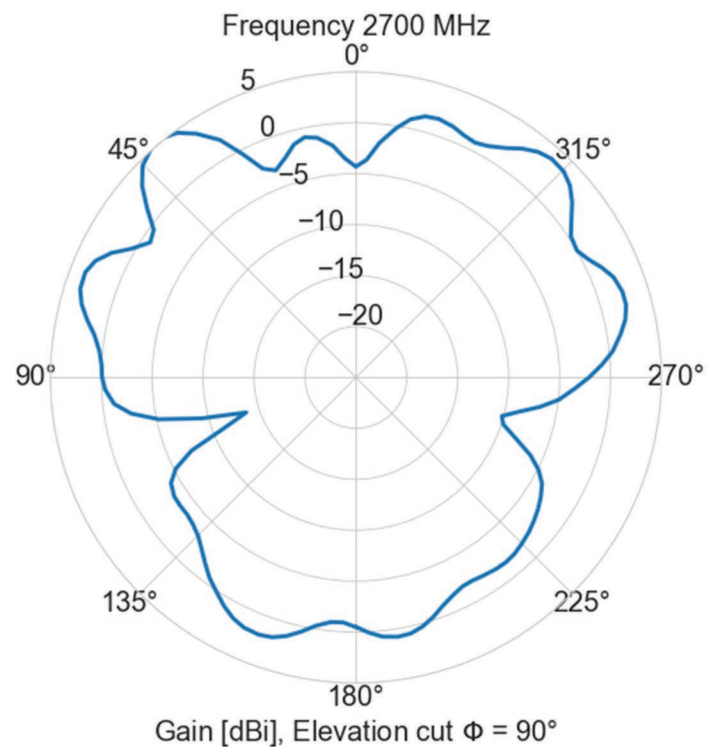
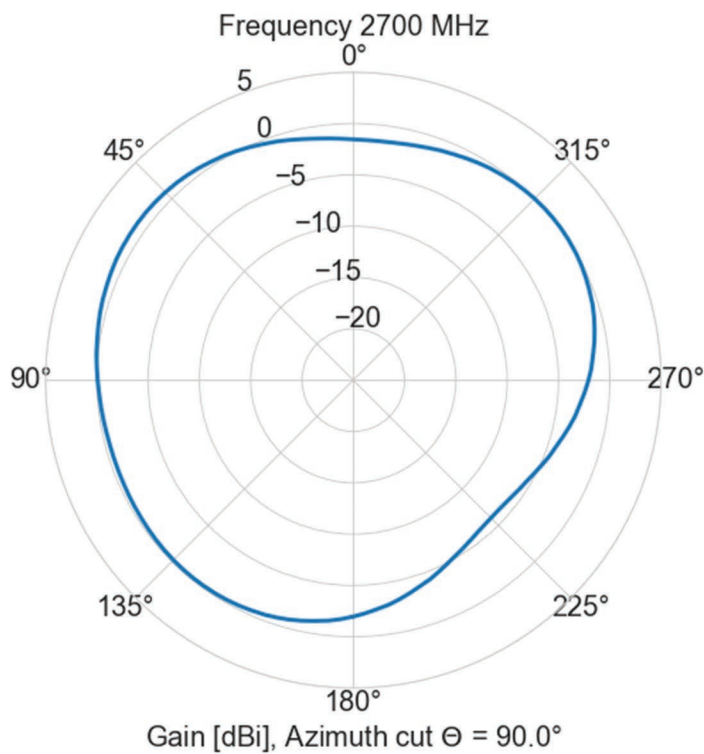
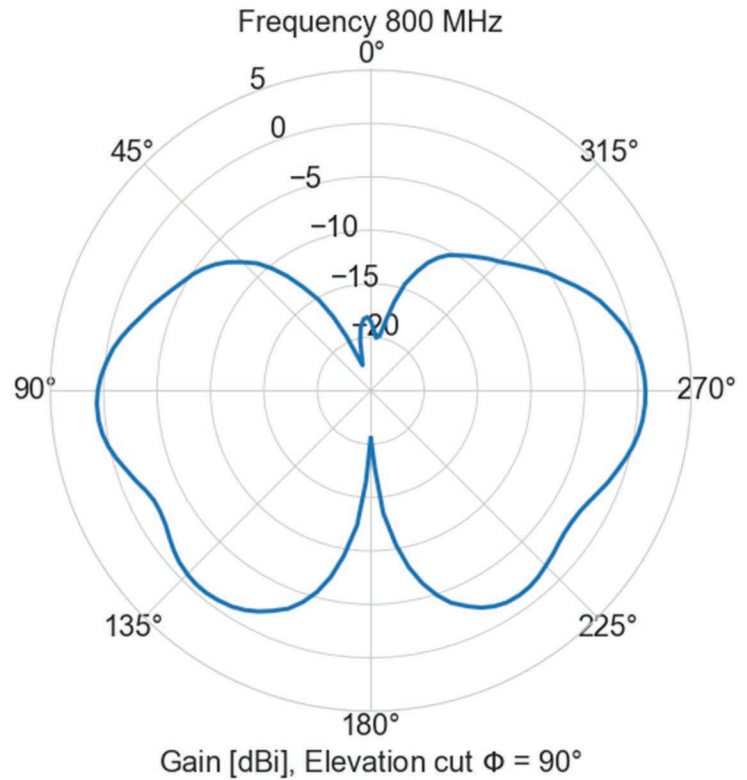
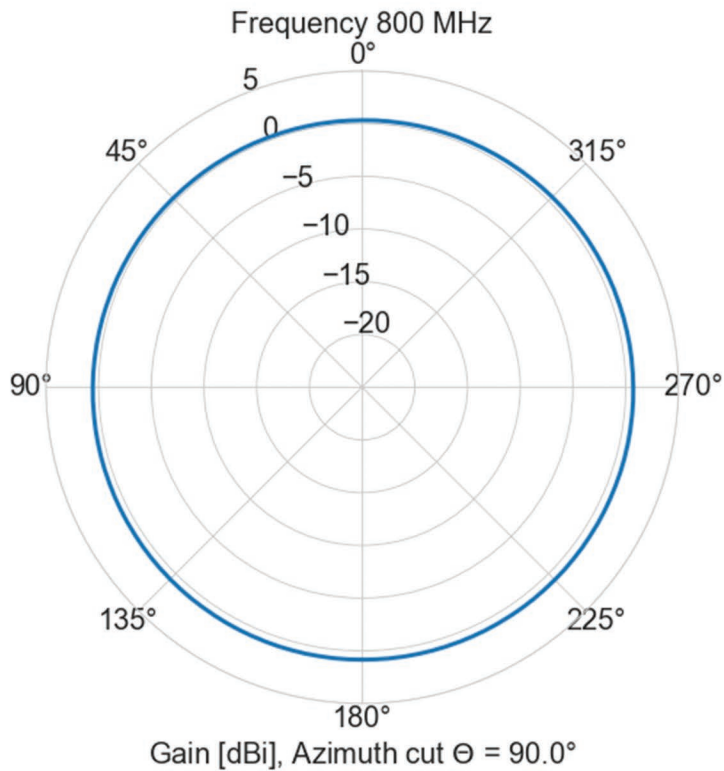


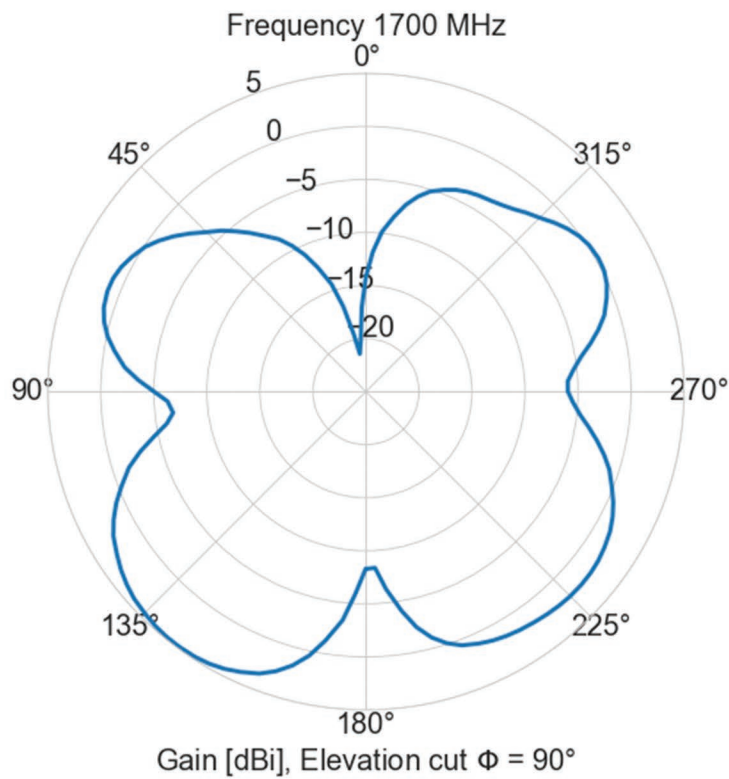
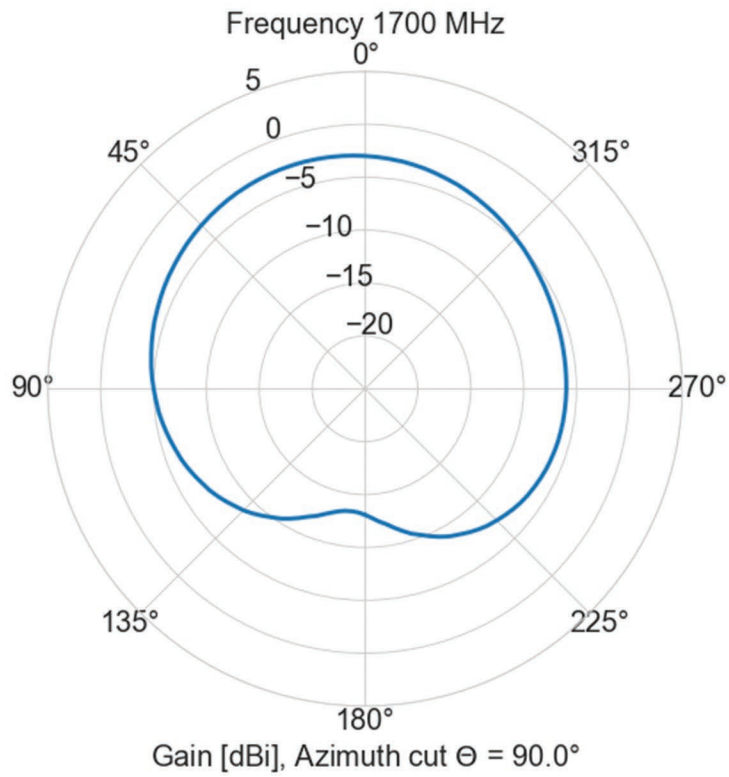
## Antenna Parameters



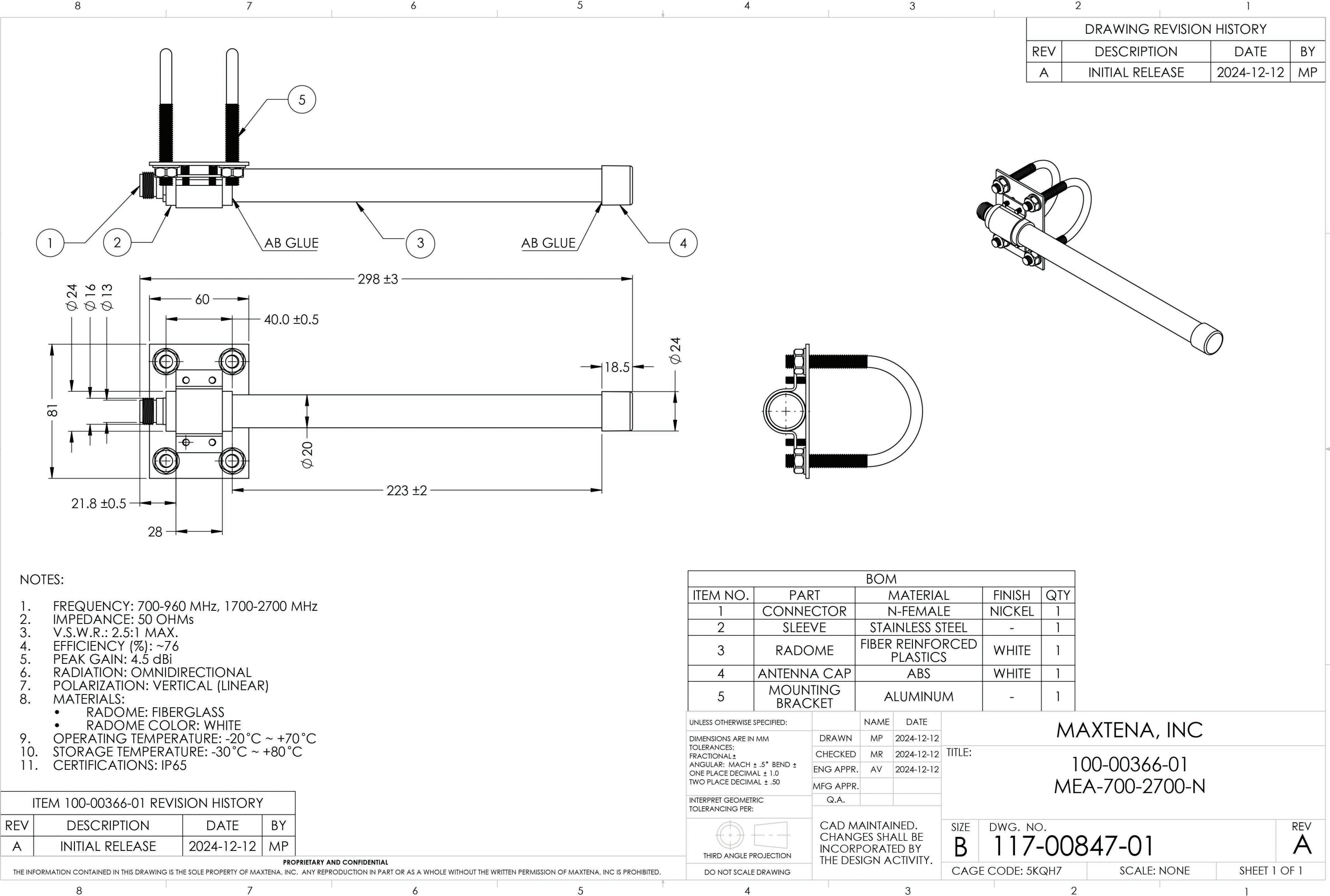


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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2024-12-12	MP

NOTES:

1. FREQUENCY: 700-960 MHz, 1700-2700 MHz
2. IMPEDANCE: 50 OHMs
3. V.S.W.R.: 2.5:1 MAX.
4. EFFICIENCY (%): ~76
5. PEAK GAIN: 4.5 dBi
6. RADIATION: OMNIDIRECTIONAL
7. POLARIZATION: VERTICAL (LINEAR)
8. MATERIALS:

• RADOME: FIBERGLASS


• RADOME COLOR: WHITE
9. OPERATING TEMPERATURE: -20°C ~ +70°C
10. STORAGE TEMPERATURE: -30°C ~ +80°C
11. CERTIFICATIONS: IP65

ITEM 100-00366-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2024-12-12	MP

PROPRIETARY AND CONFIDENTIAL

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BOM				
ITEM NO.	PART	MATERIAL	FINISH	QTY
1	CONNECTOR	N-FEMALE	NICKEL	1
2	SLEEVE	STAINLESS STEEL	-	1
3	RADOME	FIBER REINFORCED PLASTICS	WHITE	1
4	ANTENNA CAP	ABS	WHITE	1
5	MOUNTING BRACKET	ALUMINUM	-	1

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	MAXTENA, INC			
DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± .5° BEND ± ONE PLACE DECIMAL ± 1.0 TWO PLACE DECIMAL ± .50		DRAWN	MP				2024-12-12
		CHECKED	MR				2024-12-12
		ENG APPR.	AV				2024-12-12
		MFG APPR.					
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.			TITLE:  100-00366-01 MEA-700-2700-N		
<div><div></div><div>THIRD ANGLE PROJECTION</div></div>		CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.					
DO NOT SCALE DRAWING		SIZE	DWG. NO.	REV			
		B	117-00847-01	A			
		CAGE CODE: 5KQH7		SCALE: NONE	SHEET 1 OF 1		