



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

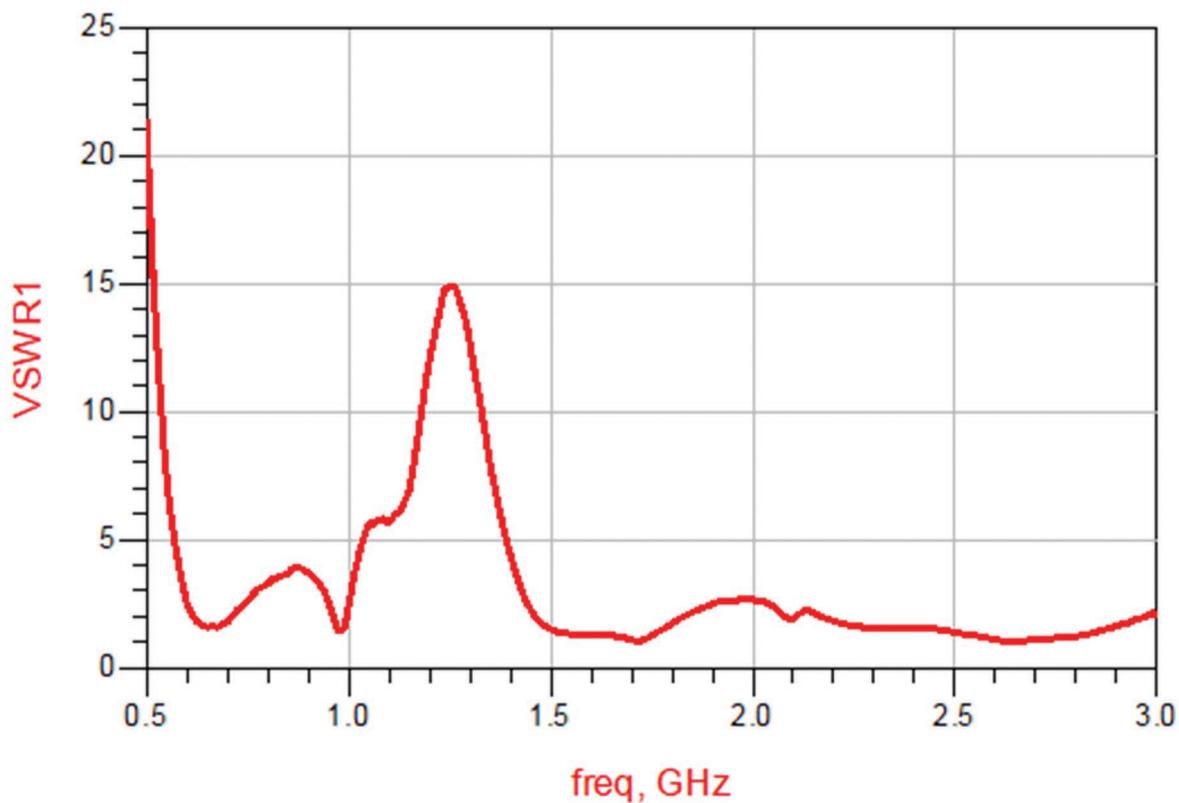
Mechanical Specifications

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

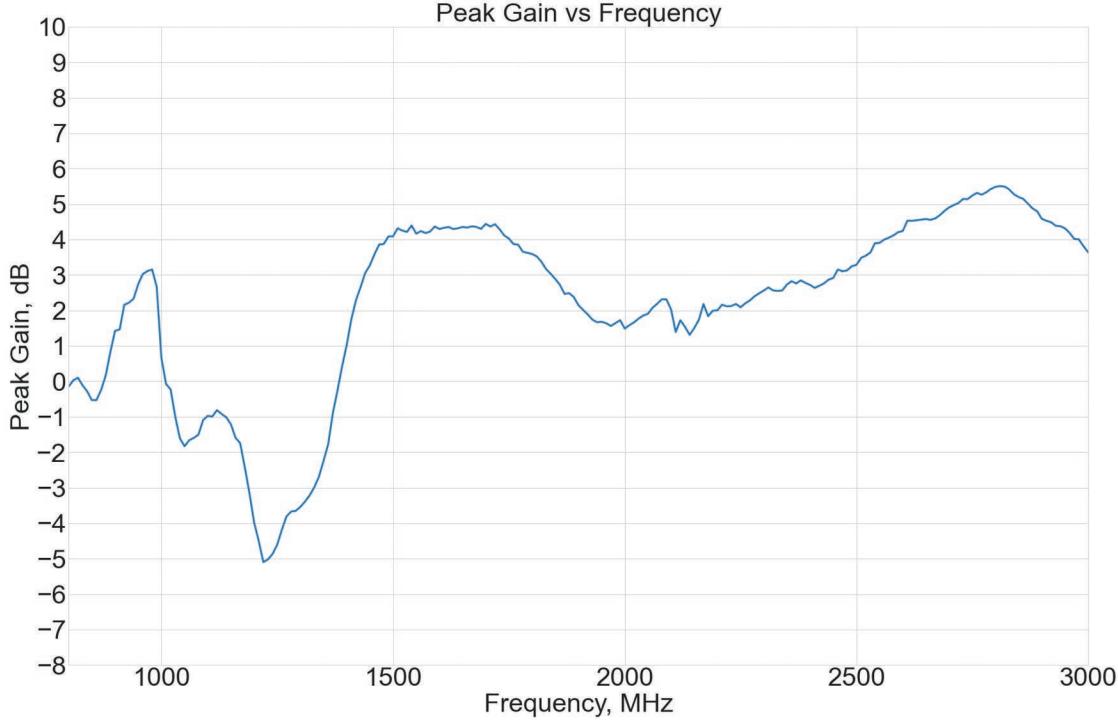
Applications

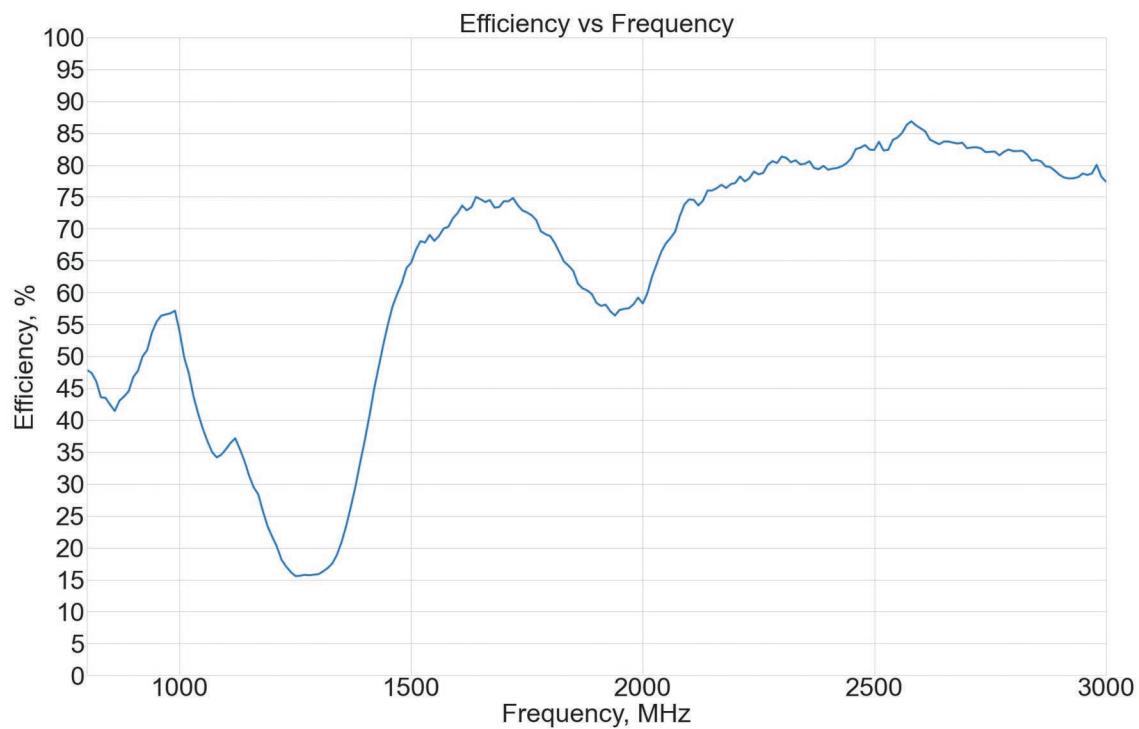
- M2M applications
- IoT
- Telematics
- Asset tracking
- Fleet tracking
- Automotive

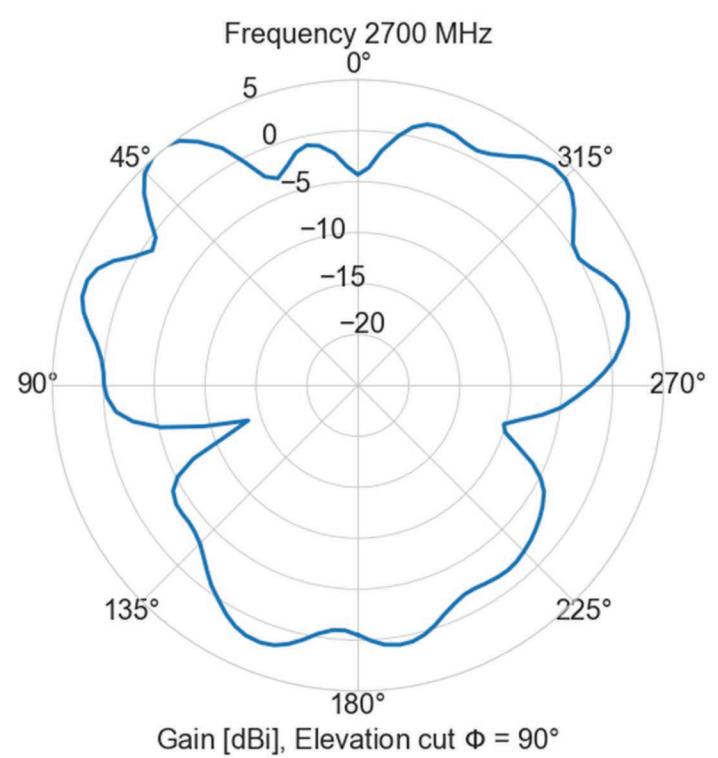
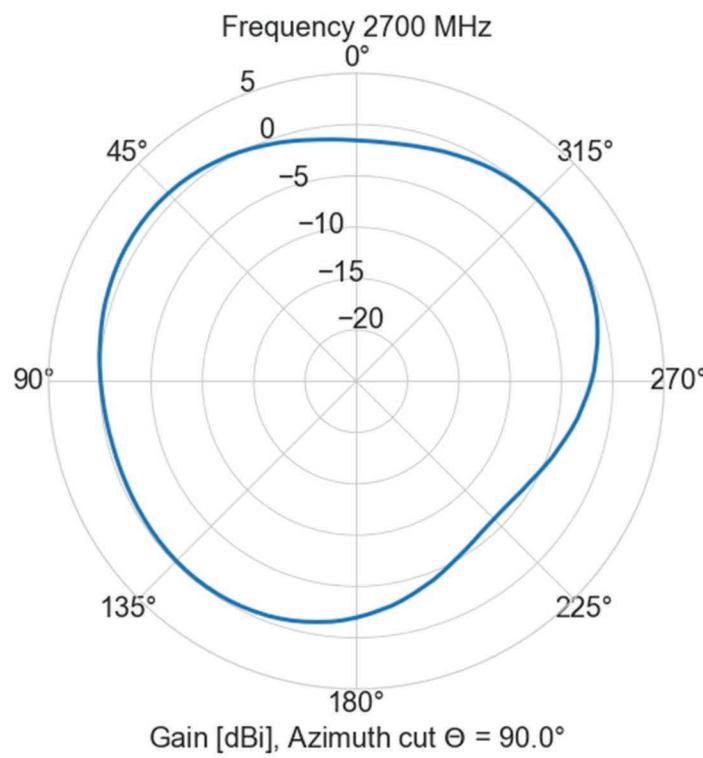
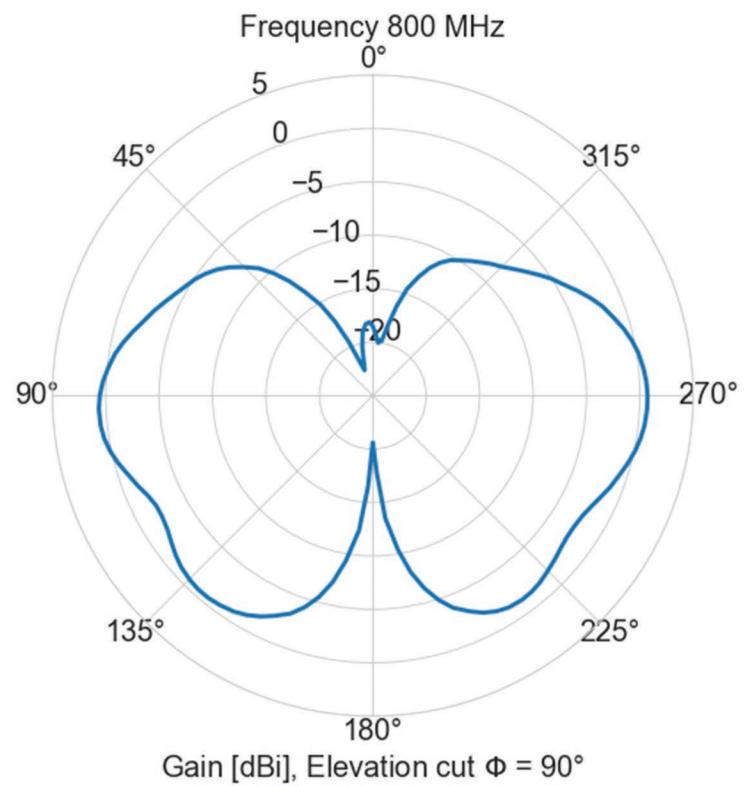
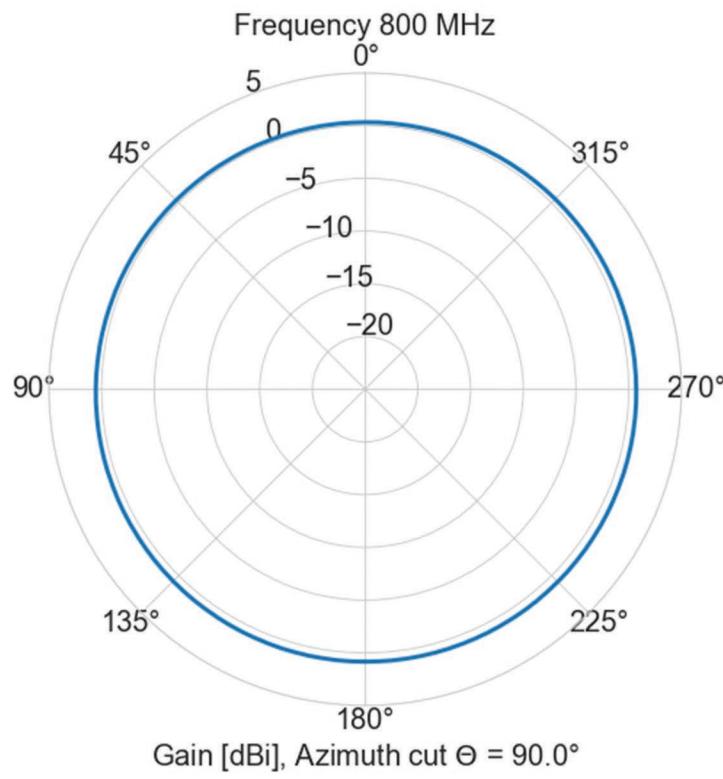
Antenna Parameters

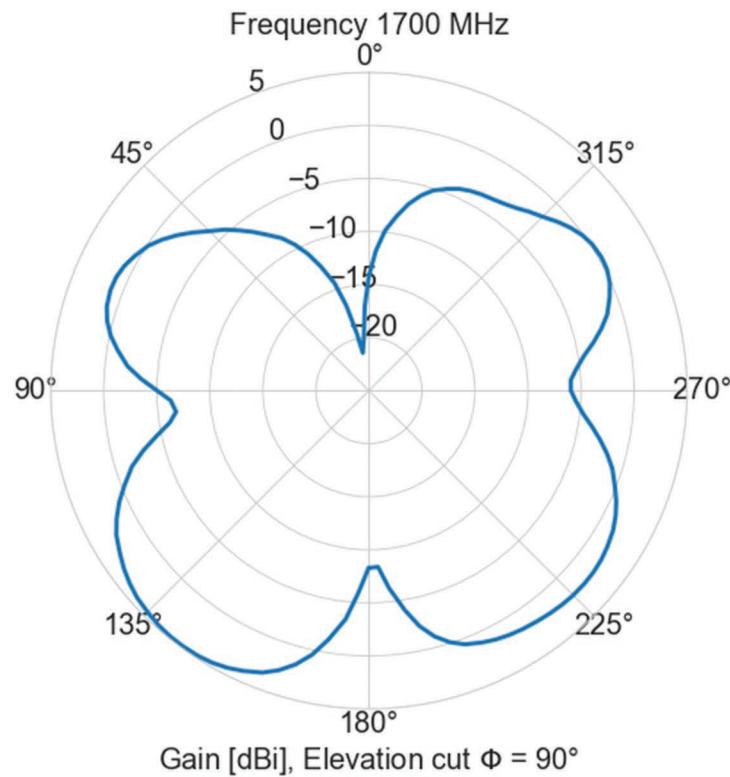
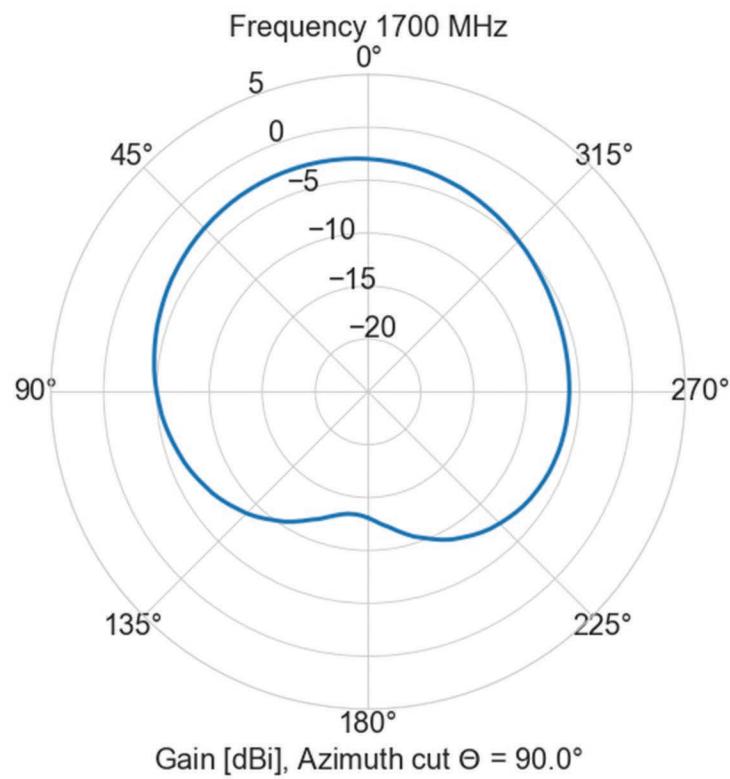


Peak Gain vs Frequency



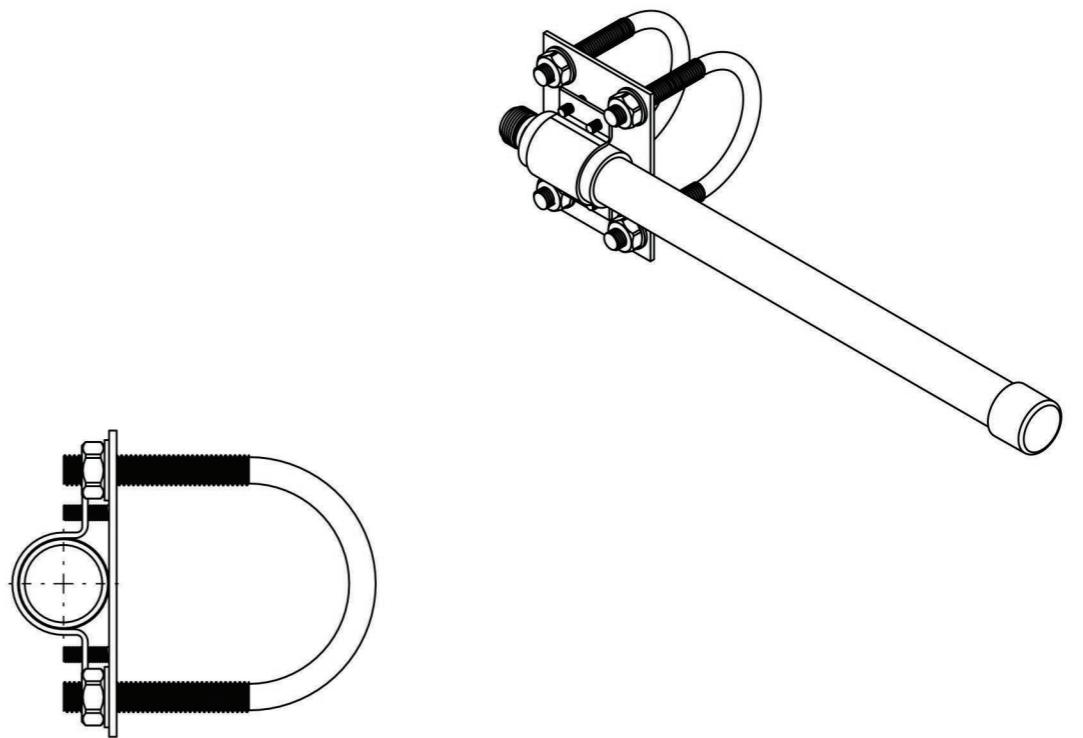
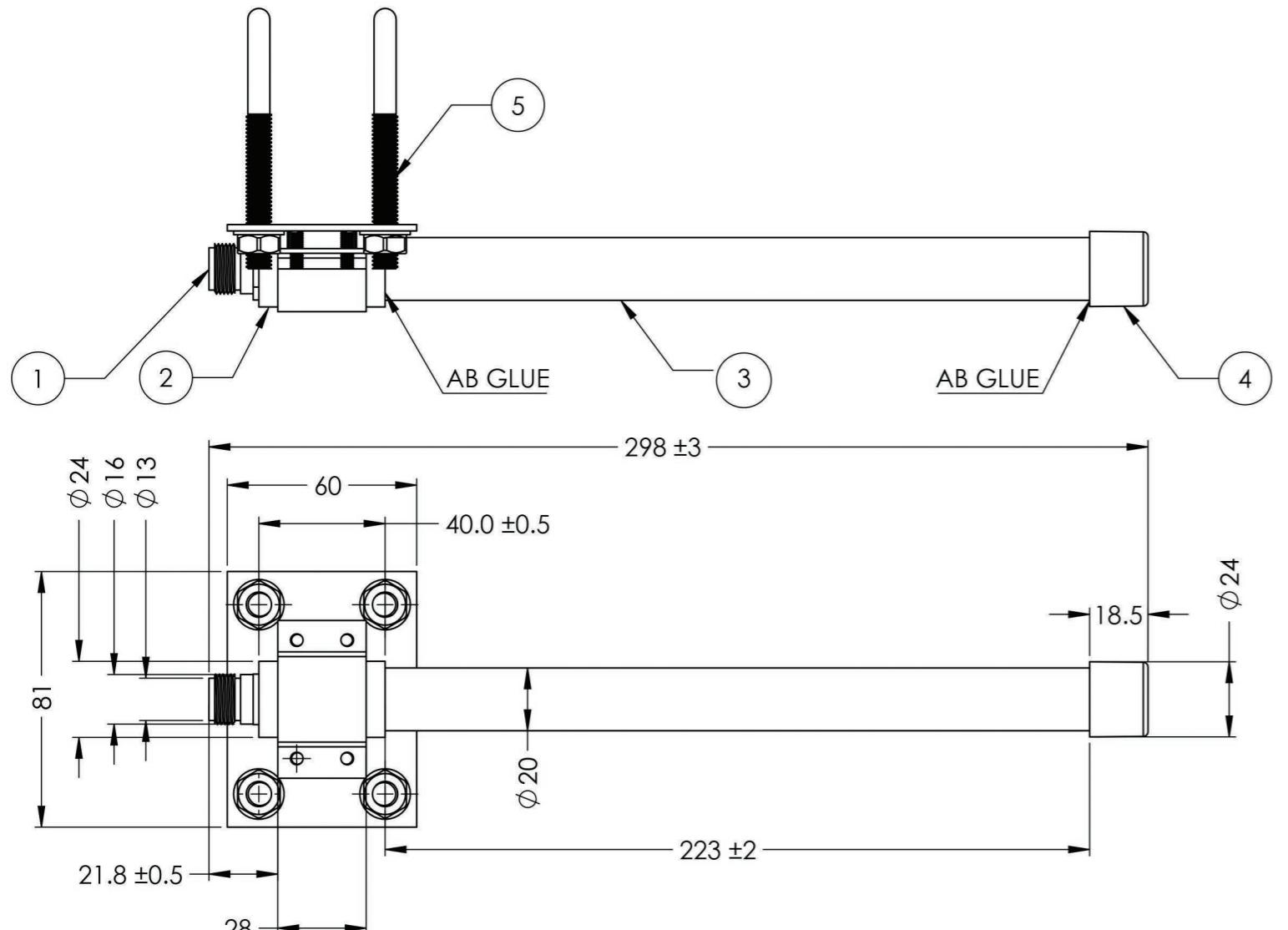






DRAWING REVISION HISTORY

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

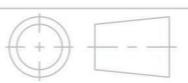
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BOM				
ITEM NO.	PART	MATERIAL	FINISH	QTY
1	CONNECTOR	N-FEMALE	NICKEL	1
2	SLEEVE	STAINLESS STEEL	-	1
3	RADOME	FIBER REINFORCED PLASTICS	WHITE	1
4	ANTENNA CAP	ABS	WHITE	1
5	MOUNTING BRACKET	ALUMINUM	-	1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± .5° BEND ±
ONE PLACE DECIMAL ± 1.0
TWO PLACE DECIMAL ± .50

INTERPRET GEOMETRIC
TOLERANCING PER:



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CAD MAINTAINED.
CHANGES SHALL BE
INCORPORATED BY
THE DESIGN ACTIVITY.

MAXTENA, INC

100-00366-01
MEA-700-2700-N

SIZE	DWG. NO.	REV
B	117-00847-01	A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

Mouser Electronics

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