



# MEA-1621-MT-TNC

Iridium High Performance Marine Pole Mount Antenna

Part #: 100-00225-01

## Description

The MEA-1621-MT-TNC is an external antenna designed for the Iridium Network. The antenna provides exceptional pattern control, polarization purity and high efficiency. It offers excellent performance at low orbit and a sleek, and offers robust pole-to-pole coverage. The MEA-1621-MT-TNC is low profile design antenna with easy mounting, featuring an integrated TNC female connector and is rated IP-67 when mounted. It can be used to boost the performance of the Iridium handsets among other uses.

This low profile antenna is a Pole mount antenna with rugged ABS plastic housing and is ideal for the most demanding environmental challenges, it comes as a white dome shaped form factor specifically designed for marine applications.

The MEA-1621-MT-TNC provides outstanding performance for any telematics and fleet management application.

## Electrical Specification

Parameter	Specification
Frequency Range	1616-1627 MHz
Band	1621 MHz
Return Loss	-18.8 dB
VSWR	1.2:1
Efficiency	76%
Peak Gain	4.5 dBi
Average Gain	-1.1dB
Impedance	50 $\Omega$
Polarization	RHCP
Radiation Pattern	Hemispherical

## Mechanical Specification

Parameter	Specification
Antenna Dimensions	Ø 74 x 116 mm
Weight	113 g
Operating Temperature	-40°C to + 85°C
Mounting Type	Pole Mount
Thread	1" - 14 TPI
Connector	TNC Female
Radome/Color	ABS/ White
Certificates	Iridium Certified, IP67

\*Mounted on 70 x 70mm Ground Plane



## Features

- Optimized for Iridium Network
- High Performance
- High efficiency & 4.5 dBi Iridium Peak Gain
- Easy Mounting: Pole Mount
- Ground Plane Independent
- Rugged design
- Integrated TNC Female
- Low profile: Ø 74 x 116 mm
- IP67

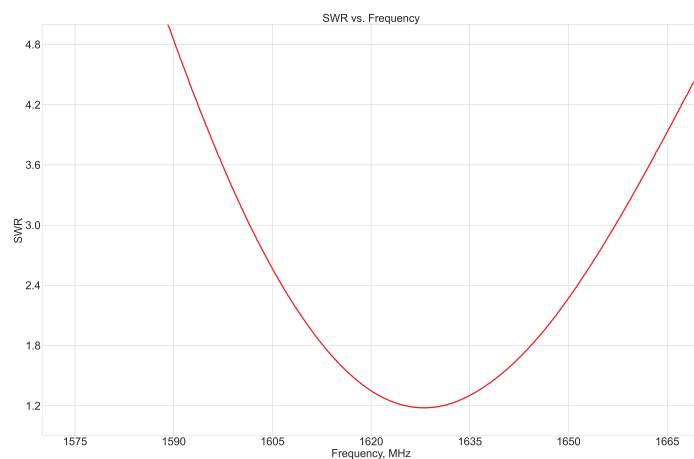
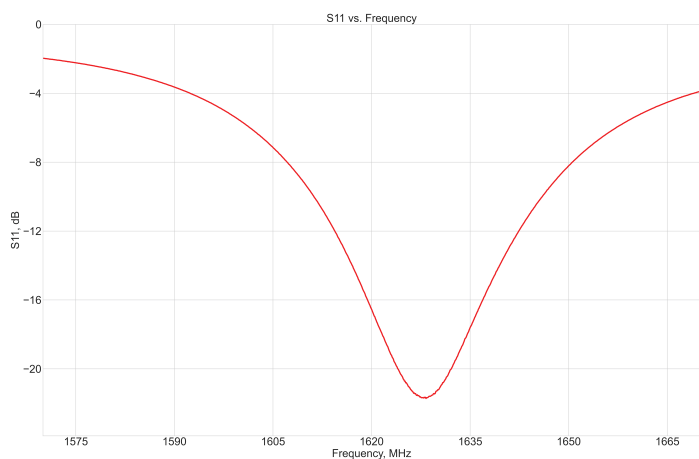
## Applications

- Satellite Communication
- Marine Applications
- Critical Communications
- Weather Monitoring
- Military & security
- Asset tracking
- Iridium (SBD) Short Burst Data
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications

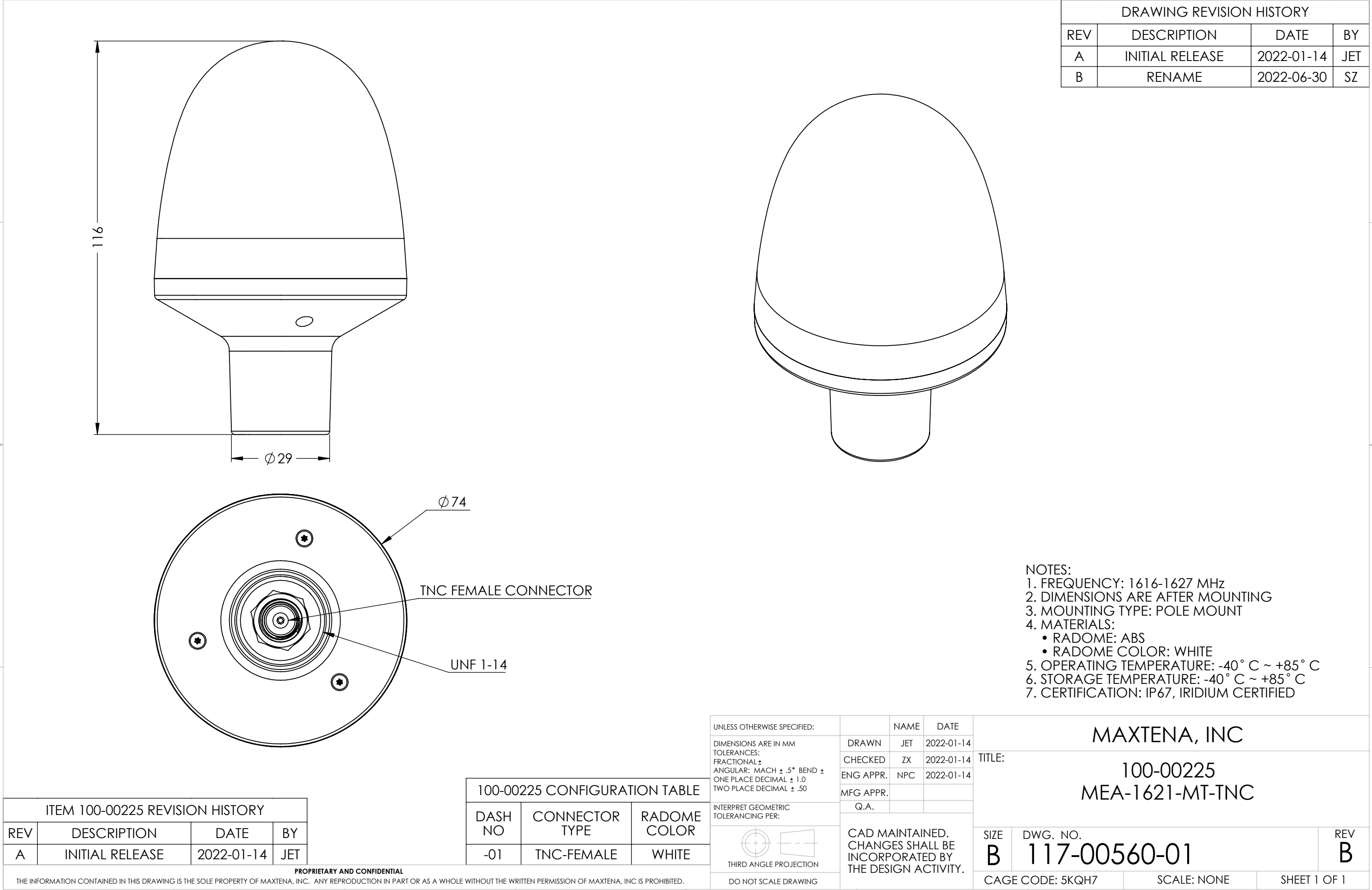


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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET
B	RENAME	2022-06-30	SZ

- NOTES:
1. FREQUENCY: 1616-1627 MHz
  2. DIMENSIONS ARE AFTER MOUNTING
  3. MOUNTING TYPE: POLE MOUNT
  4. MATERIALS:
    - RADOME: ABS
    - RADOME COLOR: WHITE
  5. OPERATING TEMPERATURE: -40° C ~ +85° C
  6. STORAGE TEMPERATURE: -40° C ~ +85° C
  7. CERTIFICATION: IP67, IRIDIUM CERTIFIED

ITEM 100-00225 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET

100-00225 CONFIGURATION TABLE		
DASH NO	CONNECTOR TYPE	RADOME COLOR
-01	TNC-FEMALE	WHITE

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	JET	2022-01-14
TOLERANCES:	CHECKED	ZX	2022-01-14
FRACTIONAL ±	ENG APPR.	NPC	2022-01-14
ANGULAR: MACH ± .5° BEND ±	MFG APPR.		
ONE PLACE DECIMAL ± 1.0	Q.A.		
TWO PLACE DECIMAL ± .50	CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.		
INTERPRET GEOMETRIC TOLERANCING PER:			
THIRD ANGLE PROJECTION			
DO NOT SCALE DRAWING			

MAXTENA, INC			
TITLE: 100-00225 MEA-1621-MT-TNC			
SIZE B	DWG. NO. 117-00560-01		REV B
CAGE CODE: 5KQH7		SCALE: NONE	SHEET 1 OF 1

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