



MEA-1621-MT-SM

Iridium High Performance Screw Mount Antenna

Part #: 100-00226-01

Description

The MEA-1621-MT-SM 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-SM is low profile design antenna with easy mounting, featuring a TNC Female Bulkhead 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 screw mount antenna with rugged ABS plastic housing and is ideal for the most demanding environmental challenges. The MEA-1621-MT-SM 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 Ω
Axial Ratio	≤ 3 dB
Polarization	RHCP
Radiation Pattern	Hemispherical

Mechanical Specification

Parameter	Specification
Antenna Dimensions	116 x 110 x 74 mm
Weight	202 g
Operating Temperature	-40°C to + 85°C
Mounting Type	Screw Mount
Connector	TNC Female Bulkhead Connector
Radome/Color	ABS/ White
Substance Compliance	RoHS
Certificates	IP67

*Mounted on 70 x 70m Ground Plane

Features

- Optimized for Iridium Network
- High Performance
- Easy Mounting: Screw Mount
- Ground Plane Independent
- Rugged design
- Low profile: 116 x 110 x 74 mm
- IP67

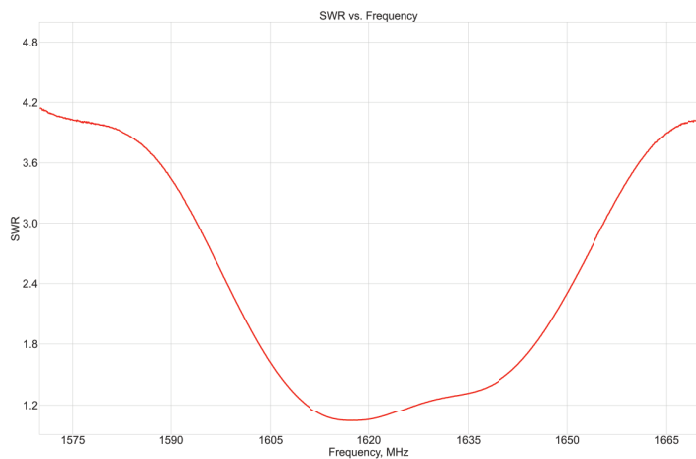
Applications

- 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

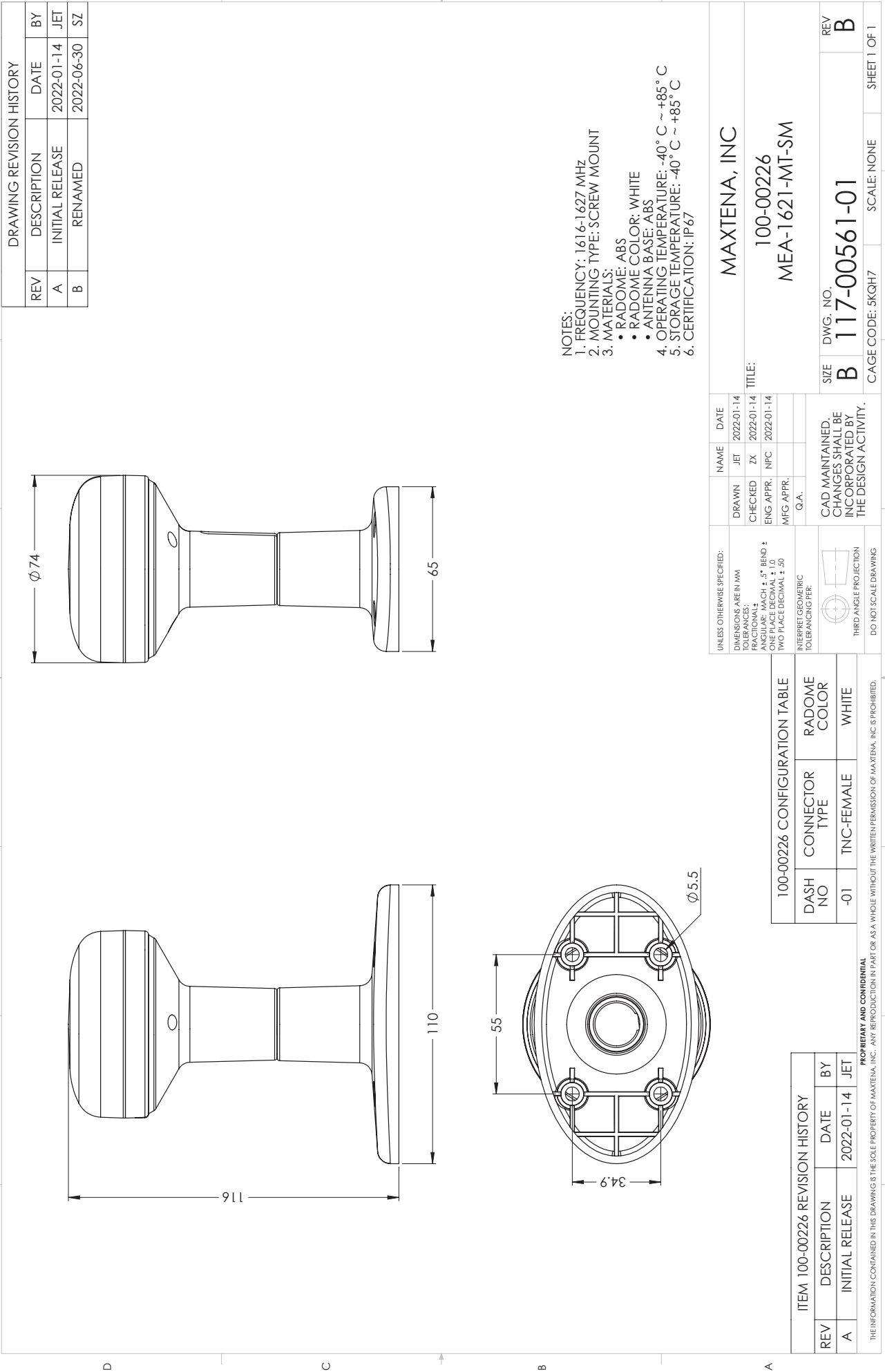


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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET
B	RENAMED	2022-06-30	SZ

- NOTES:
1. FREQUENCY: 1616-1627 MHz
 2. MOUNTING TYPE: SCREW MOUNT
 3. MATERIALS:
 - RADOME: ABS
 - RADOME COLOR: WHITE
 - ANTENNA BASE: ABS
 4. OPERATING TEMPERATURE: -40° C ~ +85° C
 5. STORAGE TEMPERATURE: -40° C ~ +85° C
 6. CERTIFICATION: IP67

MAXTENA, INC			
TITLE:			
100-00226			
MEA-1621-MT-SM			
SIZE		DWG. NO.	REV
B		117-00561-01	B
CAGE CODE: 5KQH7		SCALE: NONE	SHEET 1 OF 1
CAD MAINTAINED, CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.			
DO NOT SCALE DRAWING			
THIRD ANGLE PROJECTION			
INTERPRET GEOMETRIC TOLERANCING PER:			
UNLESS OTHERWISE SPECIFIED:			
DIMENSIONS ARE IN MM			
FRACTIONAL: 1/16 INCH ± 5° BEND ±			
ONE PLACE DECIMAL ± 1.0			
TWO PLACE DECIMAL ± .50			
MFG APPR. Q.A.			
DRAWN JET			
CHECKED ZX			
ENG APPR. NPC			
DATE 2022-01-14			
2022-01-14			
2022-01-14			
100-00226 CONFIGURATION TABLE			
DASH NO	CONNECTOR TYPE	RADOME COLOR	
-01	TNC-FEMALE	WHITE	
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ITEM 100-00226 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET

Mouser Electronics

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