



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

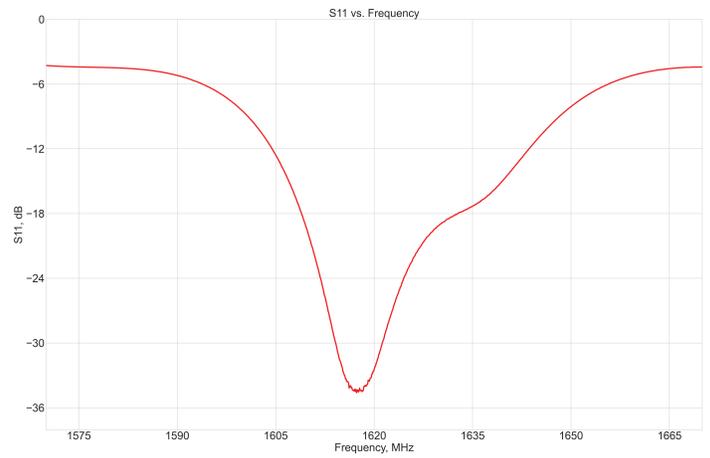
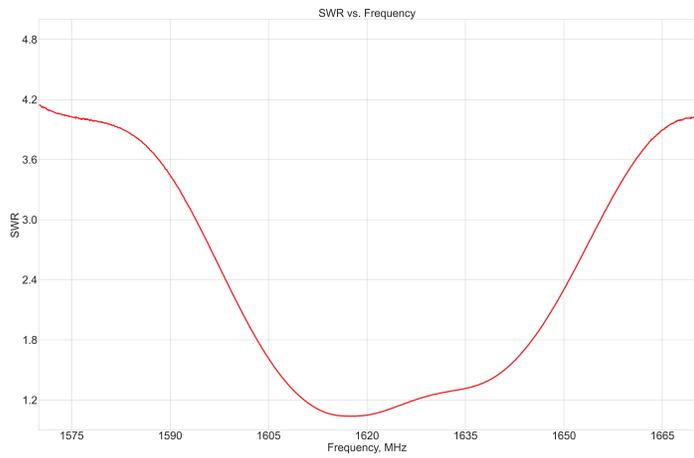
Applications

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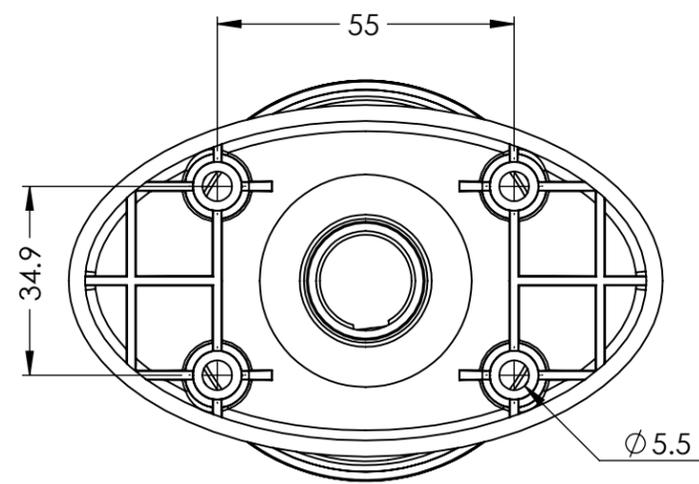
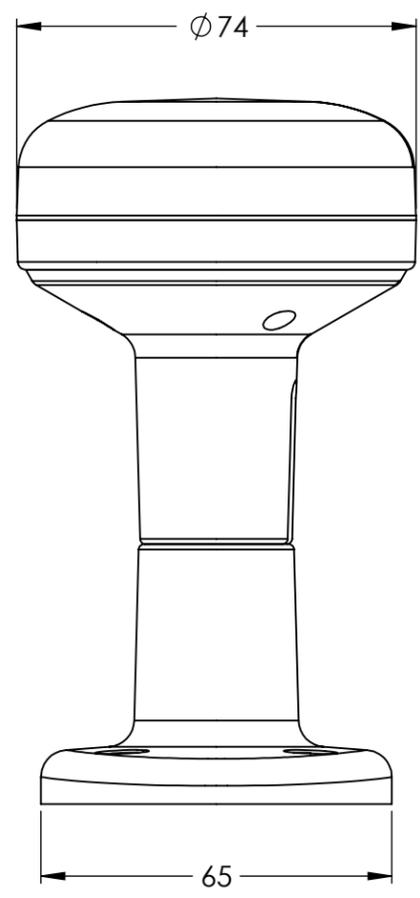
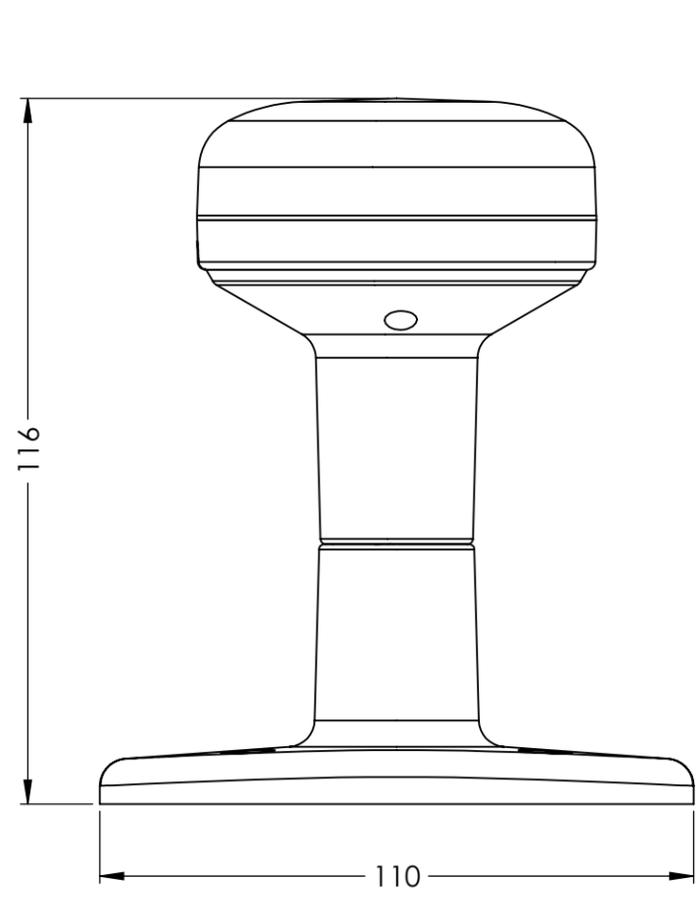
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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET
B	RENAMED	2022-06-30	SZ



- NOTES:
- FREQUENCY: 1616-1627 MHz
 - MOUNTING TYPE: SCREW MOUNT
 - MATERIALS:
 - RADOME: ABS
 - RADOME COLOR: WHITE
 - ANTENNA BASE: ABS
 - OPERATING TEMPERATURE: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 - STORAGE TEMPERATURE: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
 - CERTIFICATION: IP67

ITEM 100-00226 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-01-14	JET

100-00226 CONFIGURATION TABLE		
DASH NO	CONNECTOR TYPE	RADOME COLOR
-01	TNC-FEMALE	WHITE

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:

THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JET	2022-01-14
CHECKED	ZX	2022-01-14
ENG APPR.	NPC	2022-01-14
MFG APPR.		
	Q.A.	

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

MAXTENA, INC

TITLE: 100-00226
MEA-1621-MT-SM

SIZE: **B** DWG. NO. 117-00561-01 REV **B**

CAGE CODE: 5KQH7 SCALE: NONE SHEET 1 OF 1

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