

MEA-5GGG-SM 5G NR and GPS/GLONASS Screw Mount Part #: 100-00204-01

Description

The MEA-5GGG-SM Screw Mount Antenna is a 2-in-1 antenna solution, with high gain and efficiency ideal for maintaining constant global connectivity. The MEA-5GGG-SM covers all GPS/GLONASS and 5G NR frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations.

This screw mount antenna is easy to install with maximum durability. The MEA-5GGG-SM has two cables with a SMA-Male standard connector, 3m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types. This antenna is low profile, rugged and IP67 rated.



Electrical Specification

Parameter		Specification	
Cable 1 - 5G NR Antenna	Frequency	698-960 MHz	1427-2690 MHz
	Band	600, 700, 850, 900 MHz	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600 MHz
	Return Loss	-8.9 dB	-9.2 dB
	VSWR	2.6:1	2.4:1
	Efficiency	55%	51.2%
	Peak Gain	2.3 dBi	5.1 dBi
	Average Gain	-2.7 dB	-3.1 dB
	Frequency	3300-5000 MHz	5150-5925 MHz
	Band	3300, 3500, 3600, 3700, 4500 MHz	5200, 5500, 5800 MHz
	Return Loss	-8.2 dB	-7.5 dB
	VSWR	2.7:1	2.5:1
	Efficiency	25.7%	28.3%
	Peak Gain	2.6 dBi	2.7 dBi
	Average Gain	-6.0 dB	-5.5 dB
	Impedance	50 Ω	
	Polarization	Linear	
	Radiation Pattern	Omni-Directional	
	Max. Input Power	25 W	

Features

- 5G NR & GPS/GLONASS/QZSS/Galileo frequency coverage
- Easy Mounting: Screw Mount
- Anti-Rotation Mechanism
- Low Profile
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions 80 × 74 × 25.6 mm
- IP67, IP69

Applications

- Asset Tracking
- Telematics
- Container & Logistics
- Automotive
- Industrial Applications
- IOT Applications

Parameter		Specification	
Cable 2 - GPS/GLONASS Antenna	Frequency Range	1575.42 MHz	1598-1610 MHz
	Band	1575 MHz	1602 MHz
	Return Loss	≤ -15 dB	
	VSWR	$\leq 1.4:1$	
	Impedance	50 Ω	
	Radiation Pattern	Hemispherical	
	Polarization	RHCP	
	Saw Filter	Pre-Filter	
	Active Gain	28dB @ 2.7 V	
	Noise Figure	1.5 dB typ.	
	Voltage	1.5 - 3.6 V	
	Current Consumption	9 mA typ.	
	Power Consumption	24.3 mW typ.	
	ESD Protection	2 kV	

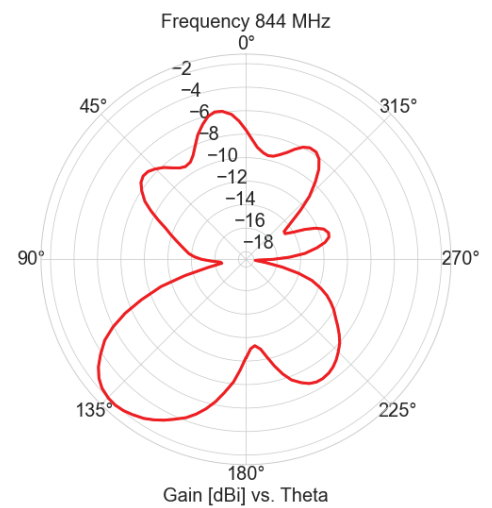
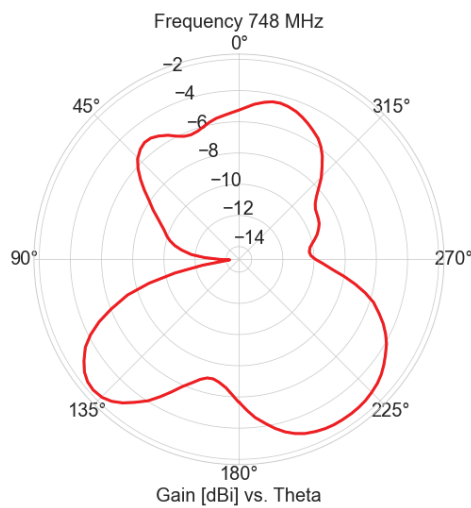
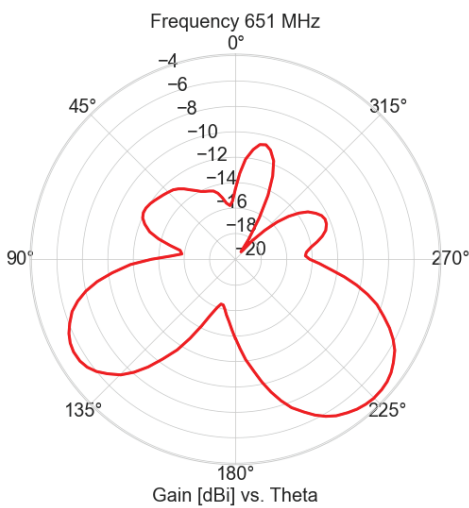
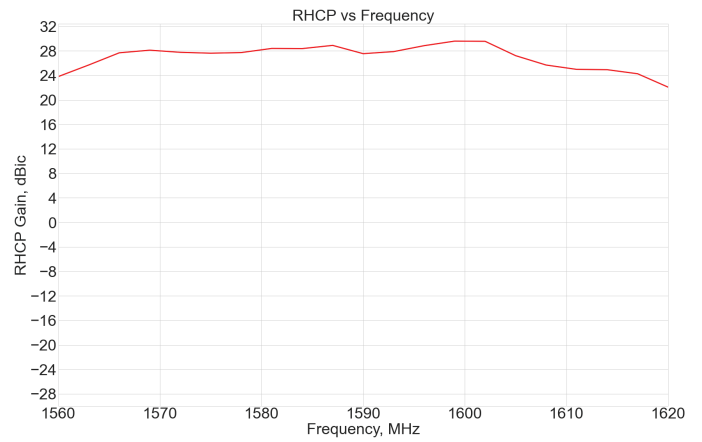
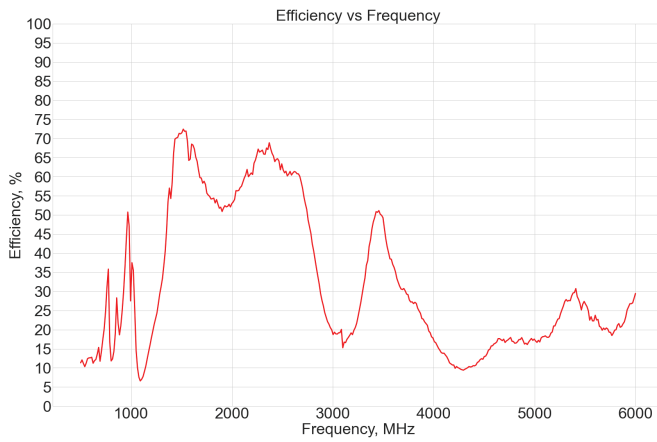
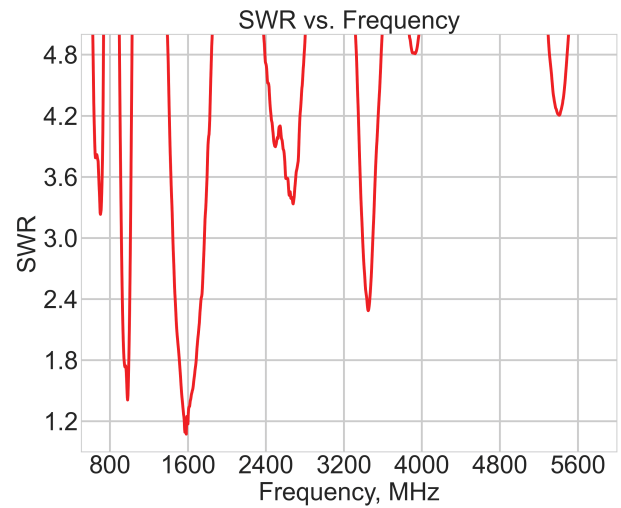
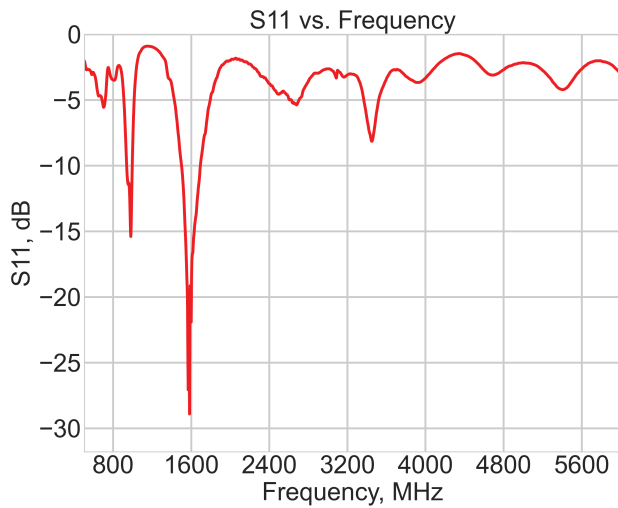
Mechanical Specification

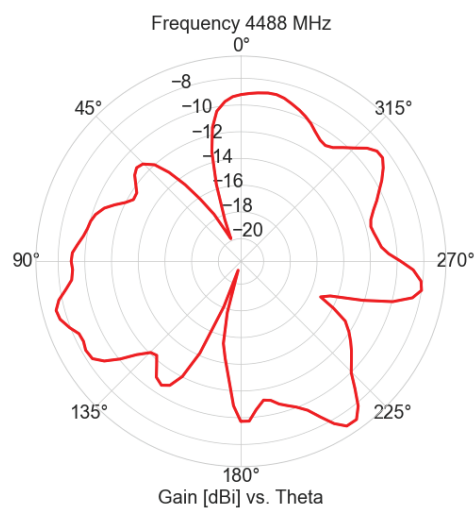
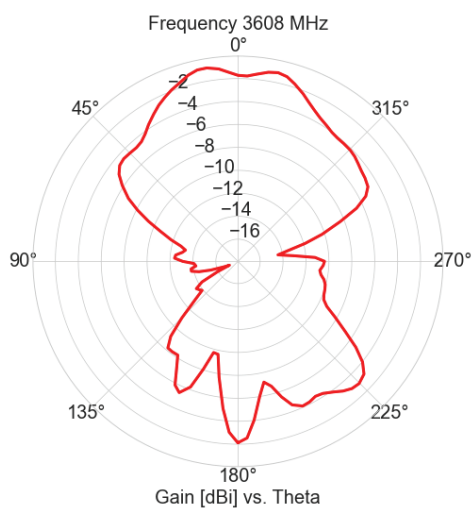
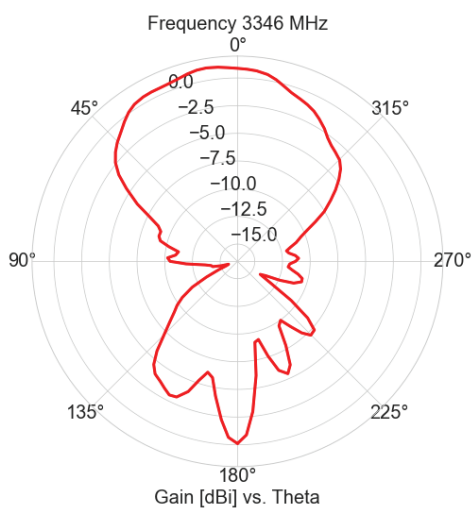
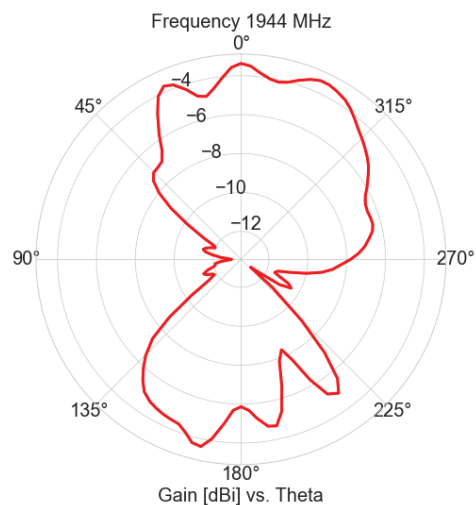
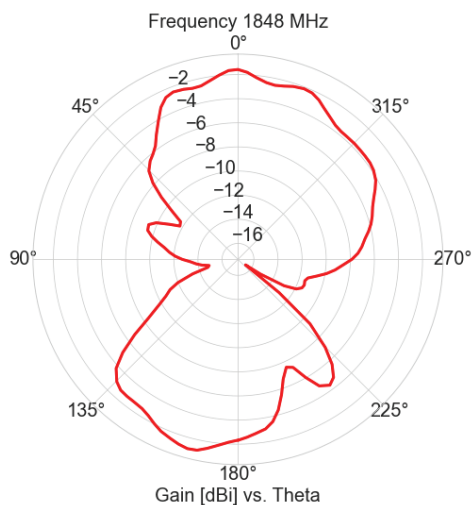
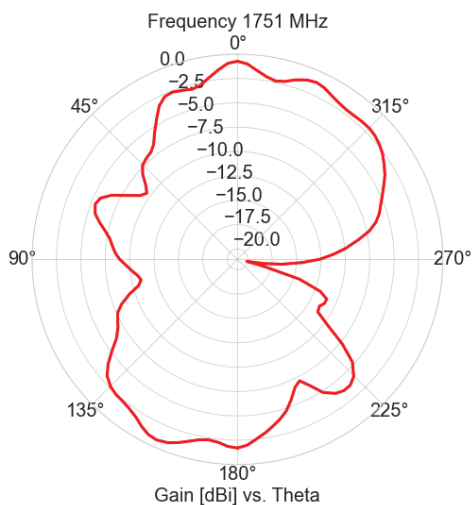
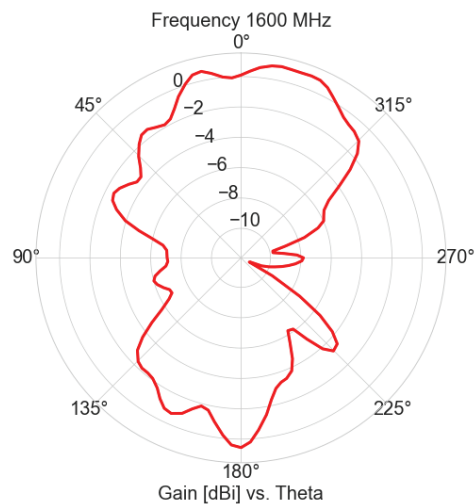
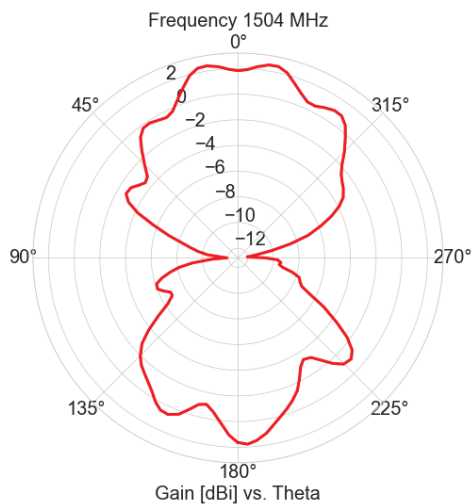
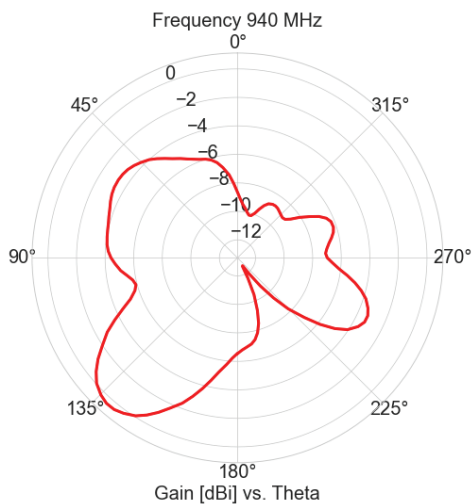
Parameter	Specification
Antenna Dimensions	80 × 74 × 25.6 mm
Operating Temperature	-40°C to + 85°C
Mounting Type	Screw Mount
Connector	SMA-Male
Cable	LL100/D302 Standard
Radome	ABS UV Stable / White, Black
Substance Compliance	RoHS
Certificates	IP67, IP69

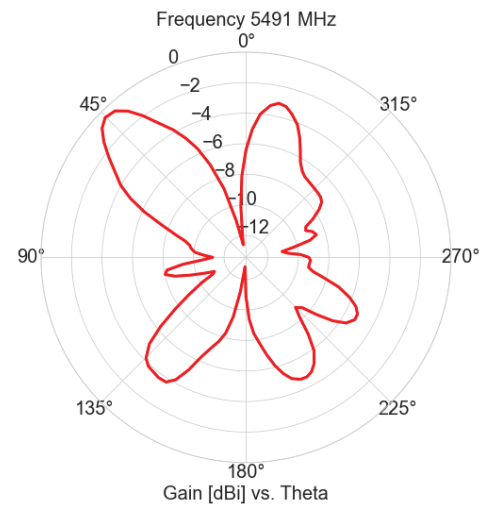
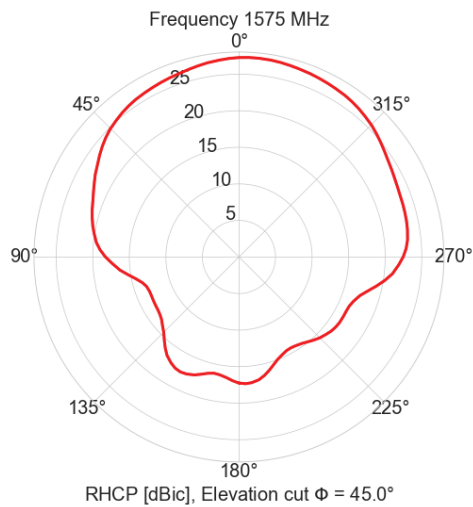
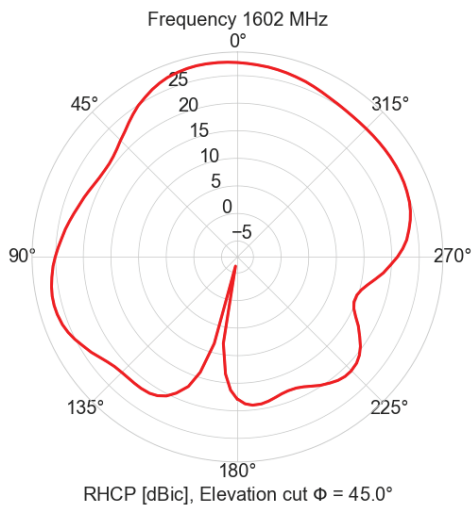
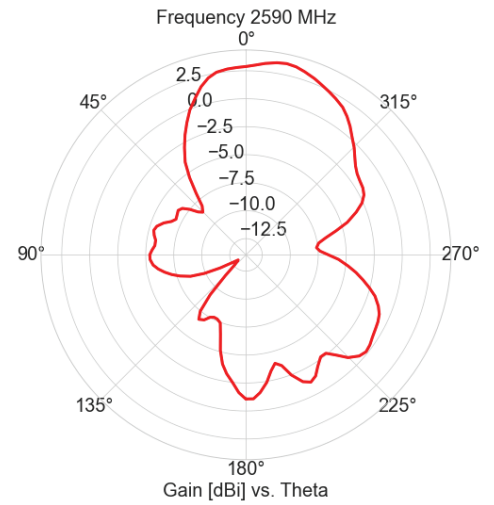
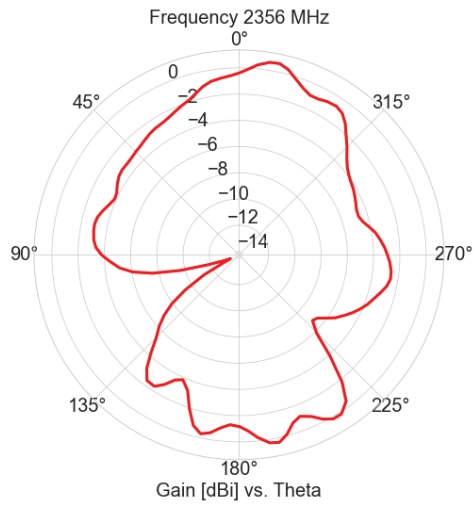
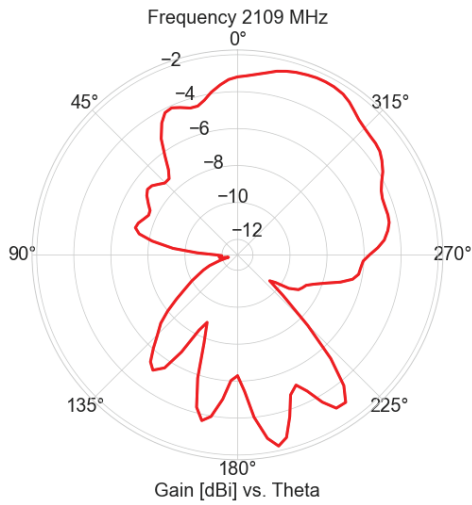
*Mounted on Metal Plate of 30 x 30 cm



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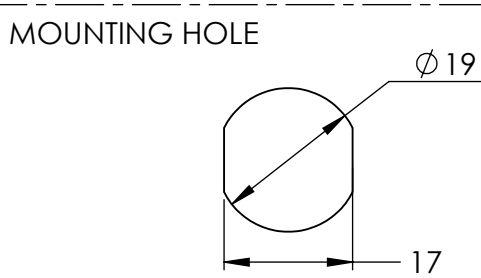
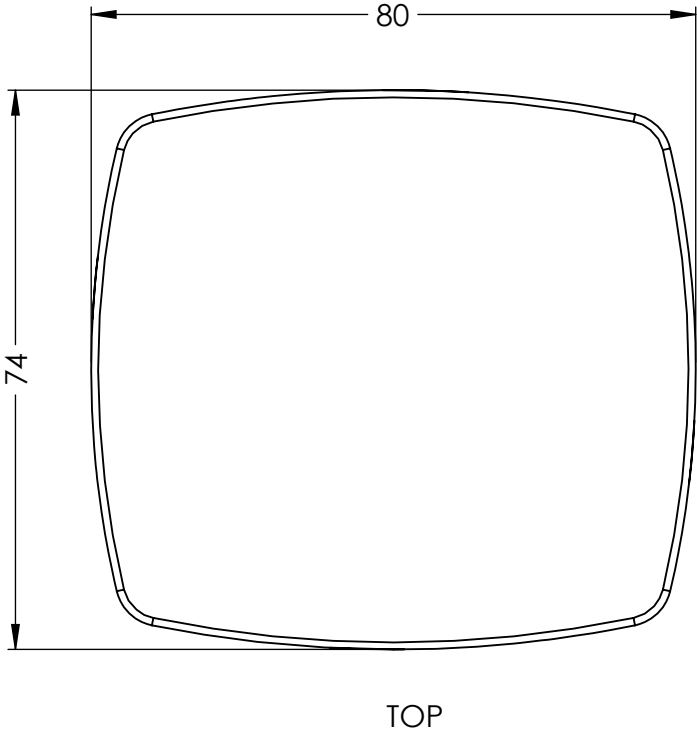
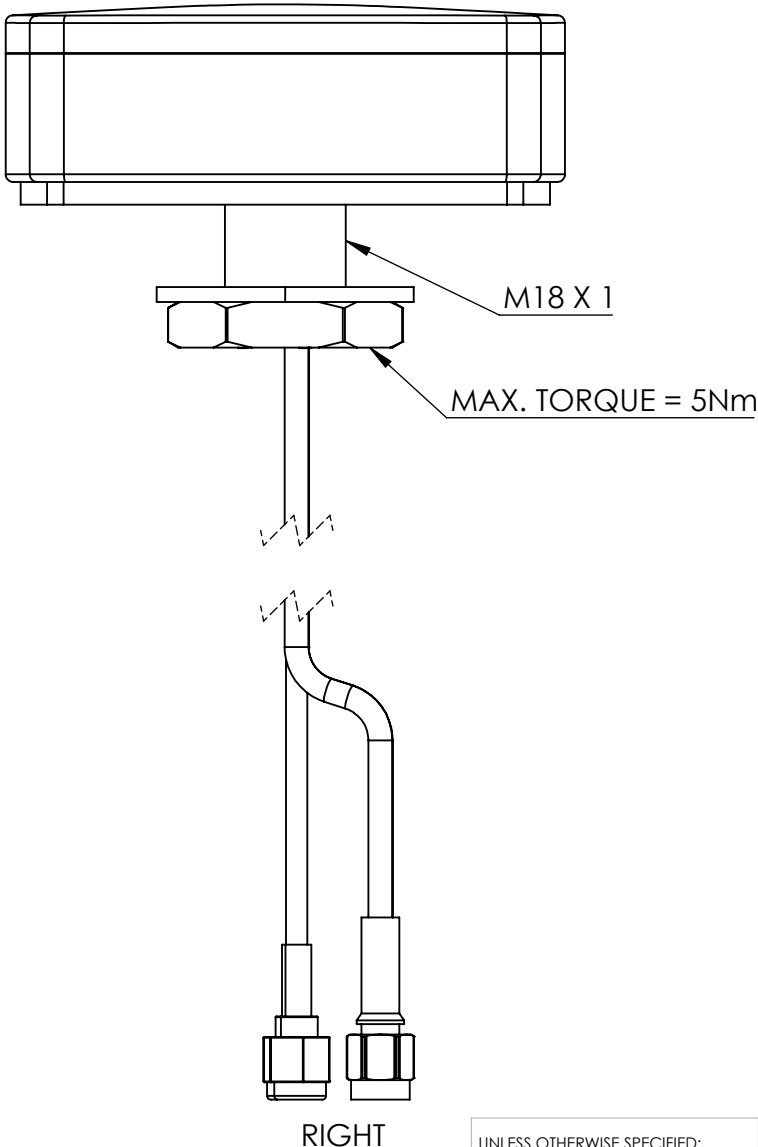
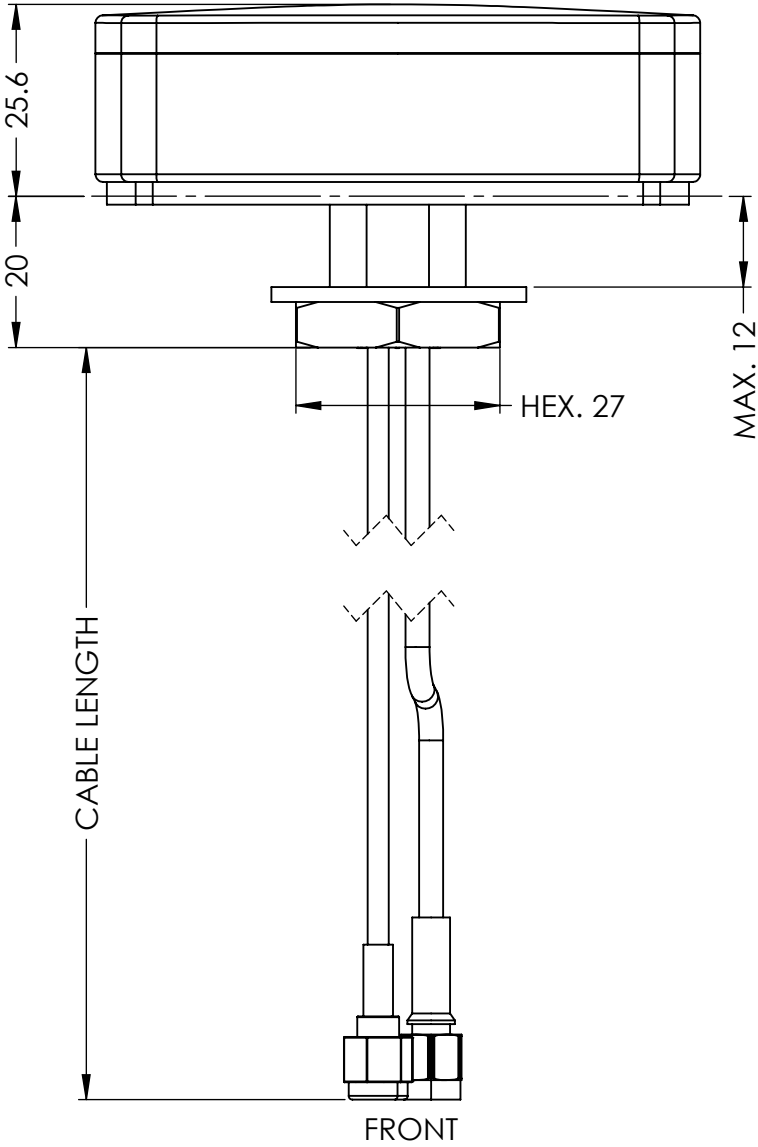






- NOTES:
- FREQUENCY:
CABLE 1 (5G NR): 617-960 MHz, 1427-2690 MHz, 3300-5000 MHz, 5150-5925 MHz
CABLE 2 (GPS/GLONASS/QZSS/Galileo): 1575.42 MHz, 1598-1606 MHz
 - DIMENSIONS ARE AFTER MOUNTING
 - CUSTOMIZABLE CABLE AND CONNECTOR TYPE
 - MOUNTING TYPE: SCREW MOUNT
 - MAX MOUNTING THICKNESS: 12 mm
 - MATERIALS:
 - RADOME: ABS UV STABLE
 - RADOME COLOR: BLACK or WHITE
 - OPERATING TEMPERATURE: -40°C ~ +85°C
 - STORAGE TEMPERATURE: -40°C ~ +85°C
 - CERTIFICATION: IP67, IP69

DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-10-01	JET



ITEM 100-00204 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-10-01	JET

100-00204 CONFIGURATION TABLE				
DASH NO	CABLE TYPE	CABLE LENGHT	CONNECTOR TYPE	RADOME COLOR
-01	CABLE 1: D302 CABLE 2: LL100	300 CM 300 CM	SMA-MALE SMA-MALE	BLACK

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	JET 2021-10-01
TOLERANCES:	CHECKED	ZX 2021-10-01
FRACTIONAL ±	ENG APPR.	NPC 2021-10-01
ANGULAR: MACH ± .5° BEND ±	MFG APPR.	
ONE PLACE DECIMAL ± 1.0	Q.A.	
TWO PLACE DECIMAL ± .50		
INTERPRET GEOMETRIC TOLERANCING PER:	CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.	
THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		

MAXTENA, INC			
TITLE: 100-00204 MEA-5GGG-SM			
SIZE B	DWG. NO. 117-00523-01	REV A	
CAGE CODE: 5KQH7		SCALE: NONE	SHEET 1 OF 1

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