



# MEA-GNSS-LTE

## 2 IN 1 LTE/GNSS ANTENNA

Ordering Part #: 100-00103-01



The MEA-GNSS-LTE is a 2 in 1 low profile antenna solution by Maxtena that combines GNSS and LTE antennas in one. Our low profile 2 in 1 solution is ideal for asset tracking, industrial and IOT applications. This antenna offers a ultra low profile rugged IP67 rated design with easy mounting and customizable cables and connector options. The small size make this antenna a desirable solution for covert installations.

### GPS-GLONASS Antenna Electrical Specifications

Frequency Range (MHz)	1575.42 / 1602 MHz
VSWR	2.0 : 1 Max
Impedance	50 Ohm
Polarization	Linear
Gain @ Zenith	1 dBi Typ. @ 1575 MHz 1 dBi Typ. @ 1602 MHz

### LNA Electrical Properties

Frequency Range (MHz)	1575.42 / 1602 MHz
VSWR	2.0 : 1 Max
Impedance	50 Ohm
Antenna Gain (@ 3.3V)	28 dB Typ. / 25 dB Min
DC Power Input	3~5 V
Noise Figure	2.5 dB Typ.
Power Consumption (@ 3.3V)	9 mA Typ.

### LTE Antenna Electrical Specifications

Frequency Range (MHz)	698~960 / 1710~2170 / 2300~2690 MHz
VSWR	698~960 MHz $\leq$ 3.7 1710~2170 MHz $\leq$ 3.5 2300~2690 MHz $\leq$ 3.0
Impedance	50 Ohm
Peak Gain	1.0 dBi Typ. @ 698~960 MHz 2.0 dBi Typ. @ 1710~2170 MHz 2.0 dBi Typ. @ 2300~2690 MHz
Average Efficiency	698~960 MHz $\geq$ 28% 1710~2170 MHz $\geq$ 30% 2300~2690 MHz $\geq$ 30%

### Mechanical Specifications

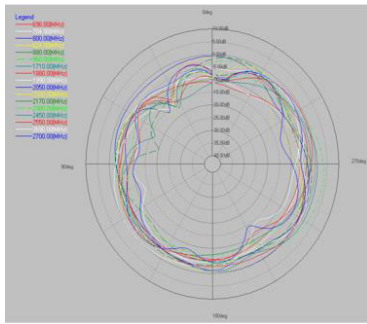
Antenna Dimensions (mm)	Diameter 51.4 x (h) 11.7 mm
Mounting Function	Foam Adhesive
Operating Temperature	-40 °C + 85 °C
Housing Material & Color	PC & Black
Cable	RG-174
Cable Length	1 Meter
Connector	SMA / FAKRA or customer specification
Waterproof	IPX5

### Radiation Specifications

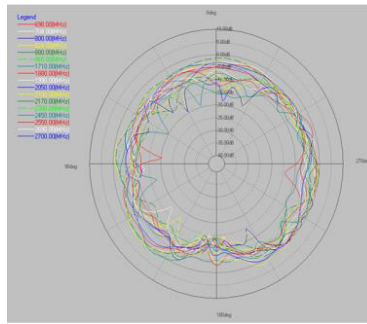
LTE / GNSS (GPS-GLONASS)

LTE

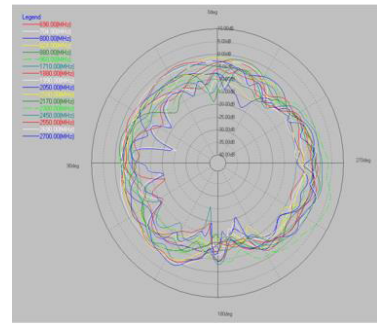
X-Y



X-Z

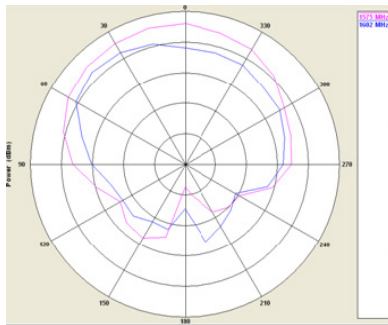


Y-Z

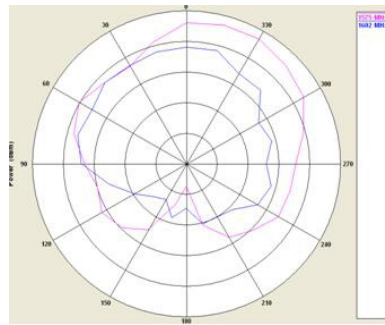


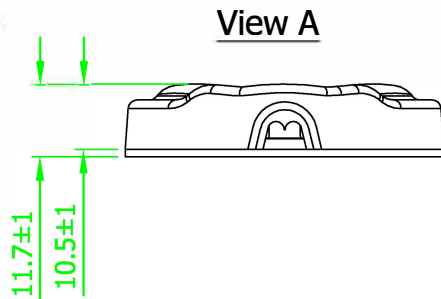
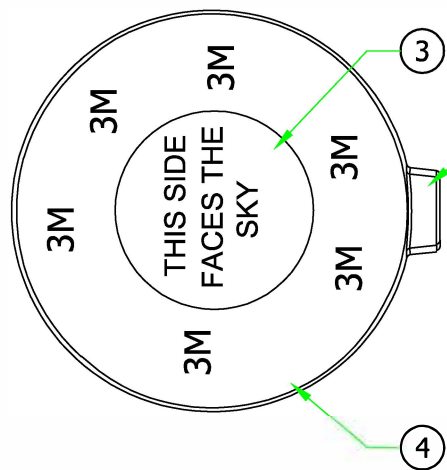
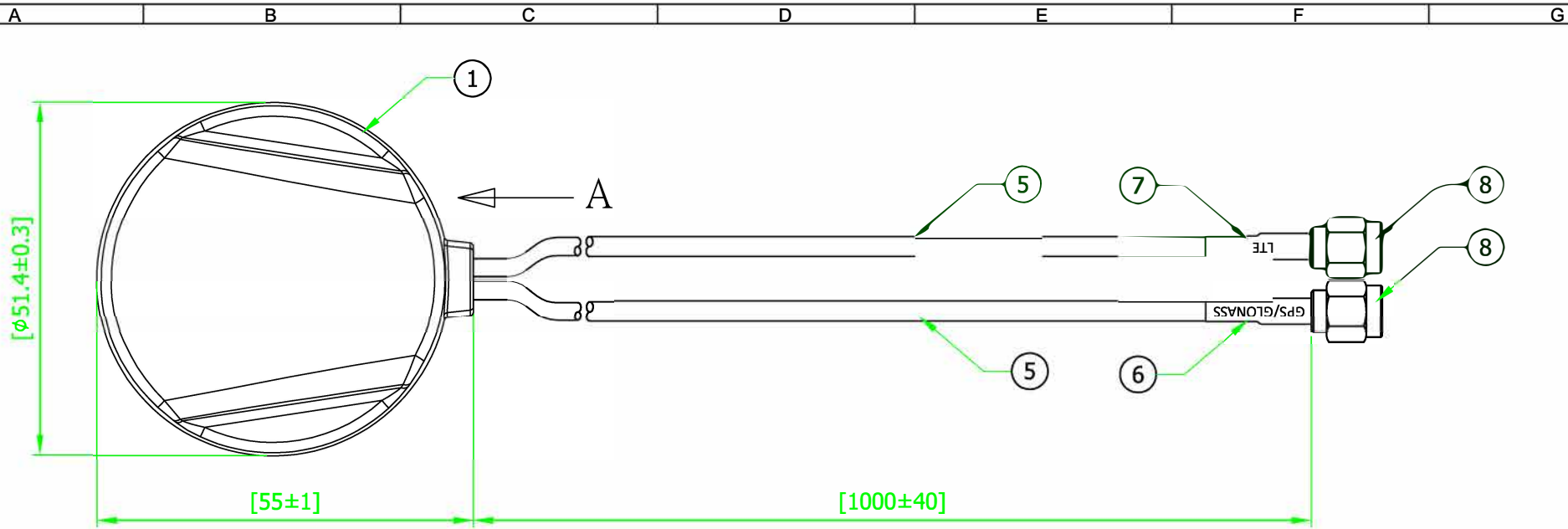
GPS-GLONASS

X-Z



Y-Z





GPS-GLONASS Active Antenna:  
Frequency: 1575.42/1602 MHz.

LTE Antenna:  
Frequency: 698~960/1710~2170/2300~2690 MHz

Waterproof level: IPX5

Note: Critical To Function Dimension Are Mark With [X...]

NO	DESCRIPTION	Q'TY	REMARK
8	Connector	SMA(M)ST	2 Gold Plated
7	H.S Tube(RG-174)	Heat Shrink Tube	1 Red on white
6	H.S Tube(RG-174)	Heat Shrink Tube	1 Blue on white
5	Cable	RG-174 Cable	2 Black
4	Foam Adhesive	3M4216;φ50.7mm	1 White
3	Label	φ25mm	1 White
2	Cable Holder	PC	1 Black
1	Antenna Cover	PC	1 Black

CUSTOMER'S SINGATURE

XX.	±5.0	APPROVED
X.	±2.0	VM
.X	±1.0	CHECKED
.XX	±0.5	VM
.XXX	±0.1	DRAWING

CUSTOMER:		
PART NO :		
PARTNAME : MEA-GNSS-LTE		
P/NO : 100-00103-01		
REV	UNIT	FILE :
A	mm	SHEET : 3/3



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