



MEA-4-GGC

GPS/GLONASS & 2G/3G

Part #: 100-00119-01

Description

Maxtena's MEA-4-GGC GPS/GLONASS & 2G/3G cellular solution is a high performance antenna in one compact and secure housing. It covers GPS/GLONASS (1575-1610 MHz) and 2G & 3g Cellular (824-894 MHz), & (1850-1990 MHz). This low-profile antenna is a magnetic mount with rugged ABC plastic housing and is ideal for the most demanding environment challenges. The standard MEA-4-GGC comes with 1 meters RG174 cable and SMA connectors for both GPS/GLONASS and cellular cables. Cable and connectors are customizable upon request. The MEA-4-GGC provides outstanding performance for any telematics, remote monitoring, and fleet management application.

GPS GLONASS Electrical Specifications

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

Features

- Covers the following bands: GSM/GPRS/CDMA/PCS/DCS/WCDMA/UMTS/HSPA/GPS/ GLONAS
- Low profile antenna for easy installation
- High LNA Gain
- Low noise figure
- Ultra-low power consumption
- IP65 water resistant
- Customizable cable length
- Customizable connector
- Foam Adhesive or Magnet
- ROHS Compliant

Applications

- Fleet management
- Monitoring
- Telematics

LNA Electrical Specifications

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

Cellular Electrical Specifications

Frequency Range (MHz)	824~894 MHz / 1850~1990 MHz
VSWR	824~894 MHz ≤ 3.5 1850~1990 MHz ≤ 3
Impedance	50 Ω
Peak Gain	1.0 dBi Typ. @824~894 MHz 5.0 dBi Typ. @1850~1990 MHz
Average Efficiency	824~894 MHz ≥ 20% 1850 ~1990 MHz ≥ 35%

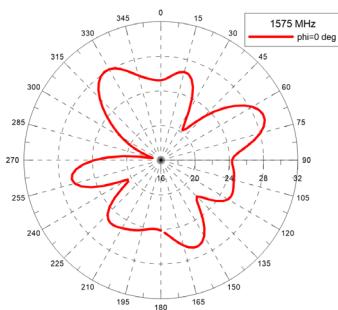
Mechanical Specifications

Antenna Dimensions	58.15 x 56.2 x 16.8 mm
Mounting Function	Magnet or Foam Adhesive
Operating Temperature	-40 °C ~ +85 °C
Housing Material & Color	PC & Black
Cable	RG-174
Cable Length	1M
Connector	SMA/FAKRA or customer specification
Waterproof	IP65

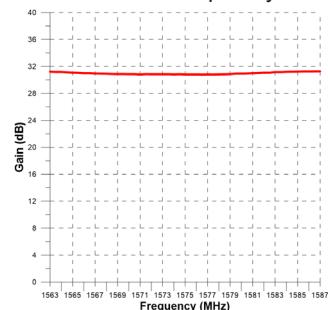
Radiation Specifications

1575.42 / 1602 MHz

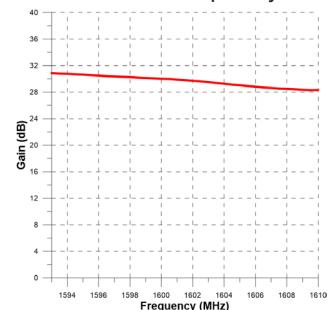
Etotal vs. Theta



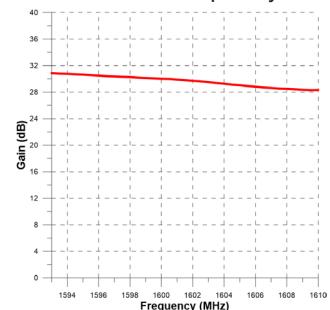
Gain vs. Frequency



Etotal vs. Theta



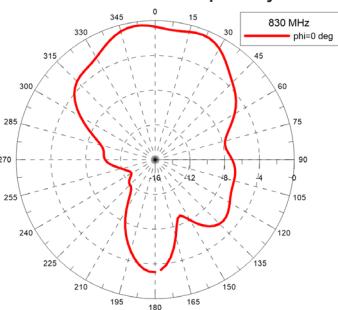
Gain vs. Frequency



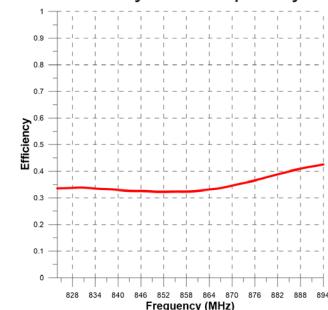
Radiation Specifications

824~894 MHz

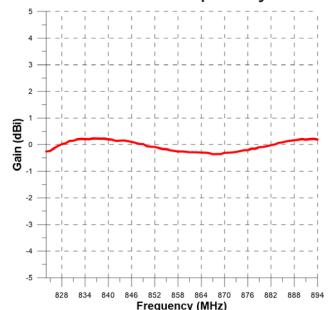
Etotal vs. Frequency



Efficiency vs. Frequency



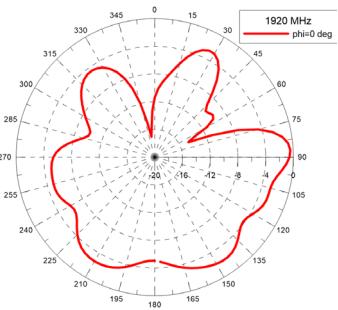
Gain vs. Frequency



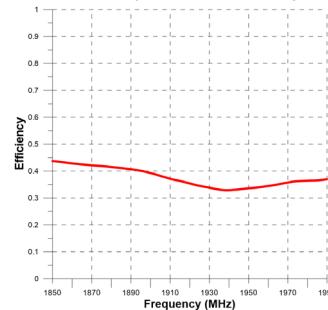
Radiation Specifications

1850~1990 MHz

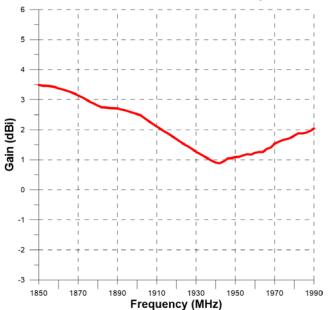
Etotal vs. Theta



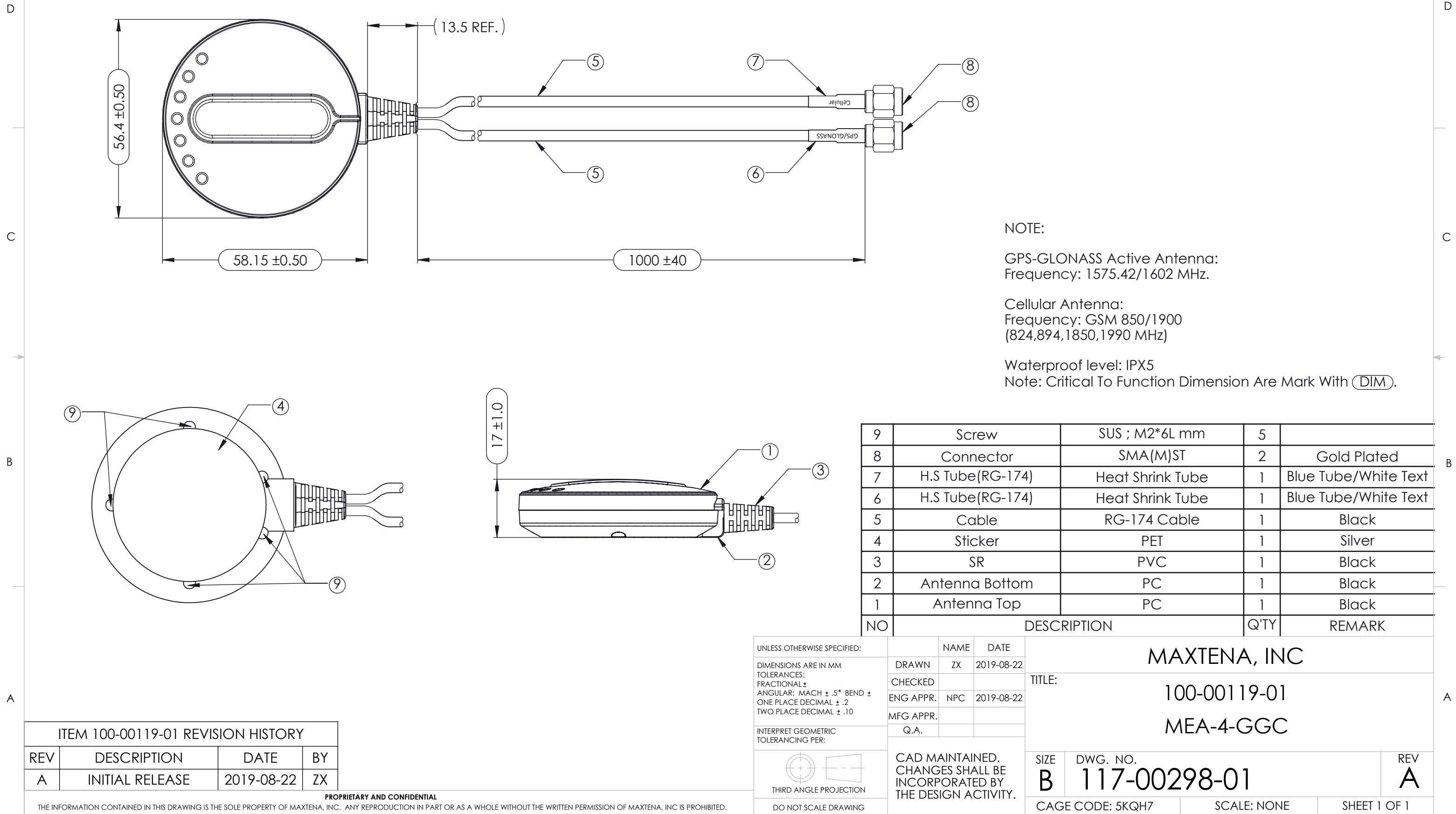
Efficiency vs. Frequency



Gain vs. Frequency



DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2019-08-22	ZX



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