

ME A-3-GGL

GPS/GLONASS/LTE ANTENNA

Part #: 189-00053-01



Description

Maxtena's ME A-3-GGL GPS/GLONASS & 2G/3G LTE solution is a high performance antenna in one compact and secure housing. It covers GPS/GLONASS (1575-1610 MHz) and LTE (2300-2690 MHz). The ME A-3-GGL is an adhesive mount antenna with rugged ABC plastic housing and is ideal for the most demanding environment challenges. The standard ME A-3-GGL comes with 1 meters RG174 cable and SMA connectors for both GPS/GLONASS cables. Cable and connectors are customizable upon re-request. The ME A-3-GGL provides outstanding performance for any telematics, remote monitoring, and fleet management application.

Features

- Low power consumption
- RoHS compliant
- Low noise figure
- Customer cable length and connector
- IPX65 Waterproof

Features

- Fleet management
- Telematics
- Monitoring

GNSS Antenna Electrical Specifications

Frequency Range (MHz)	1575.42 / 1602 MHz
VSWR	2.0 : 1 Max
Impedance	50 Ω
Polarization	Linear
Gain @ Zenith	3.0 dBi Typ. @ 1575.42 MHz / 3.5 dBi Typ. @ 1602 MHz

LNA Antenna Electrical Specifications

Frequency Range (MHz)	1575.42 / 1602 MHz
VSWR	2.0 : 1 Max
Impedance	50 Ω
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 Typ. mA

LTE Antenna Electrical Specifications

Frequency Range (MHz)	698~960 / 1710~2170 / 2300~2690 MHz
VSWR	698~960 MHz \leq 5.5 1710~2170 / 2300~2690 MHz \leq 4.0
Impedance	50 Ω
Peak Gain	1.5 dBi Typ. @ 698~960 MHz 0.5 dBi Typ. @ 1710~2170 MHz 0.5 dBi Typ. @ 2300~2690 MHz
Average Efficiency	698~960 MHz \geq 25% 1710~2170 / 2300~2690 MHz \geq 30%

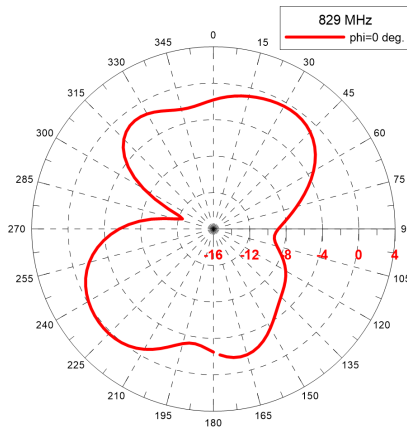
Mechanical Specifications

Antenna Dimensions (mm)	(L) 55 x (W) 55 x (H) 20 mm
Mounting Function	Foam Adhesive
Operating Temperature	-40 °C +85 °C
Housing Material & Color	PC & Black
Cable	GPS/GLONASS (RG-174) LTE (CFD-200)
Cable Length	1 Meter or customer specification
Connector	SMA / FAKRA or customer specification
Waterproof	IPX65

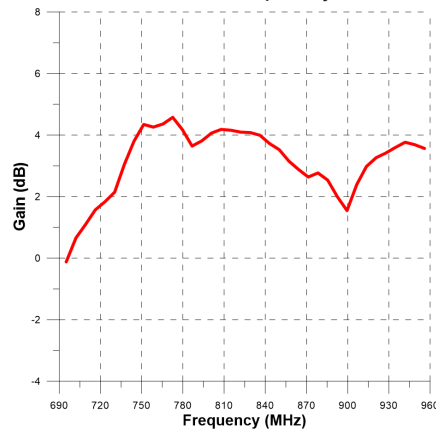
Radiation Specifications

698~960 MHz

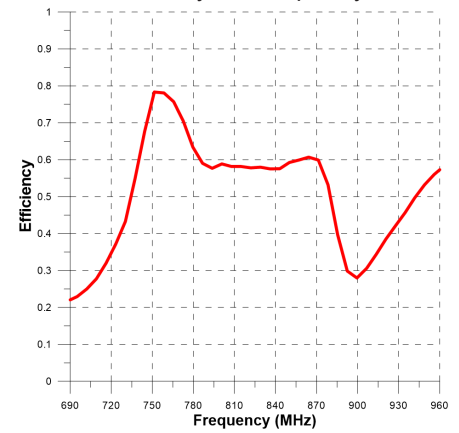
Etotol vs. Theta



Gain vs. Frequency



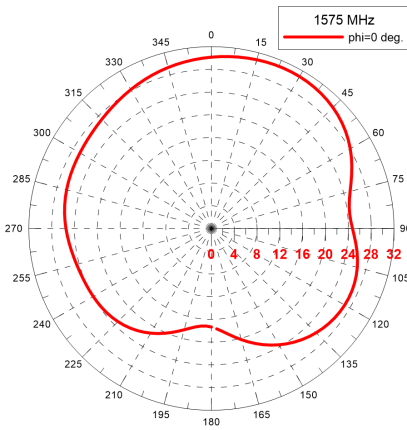
Efficiency vs. Frequency



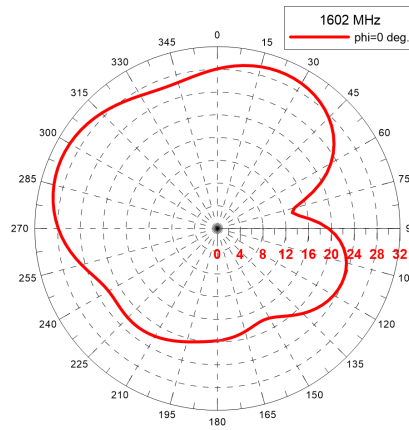
Radiation Specifications

1550~1610 MHz

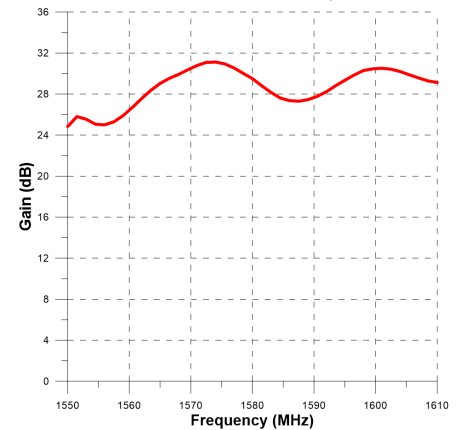
Etotol vs. Theta 1575 MHz



Etotol vs. Theta 1602 MHz



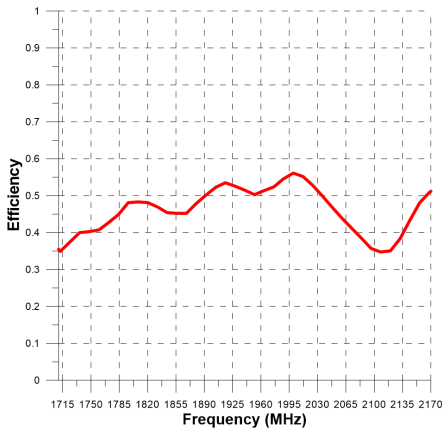
Gain vs. Frequency



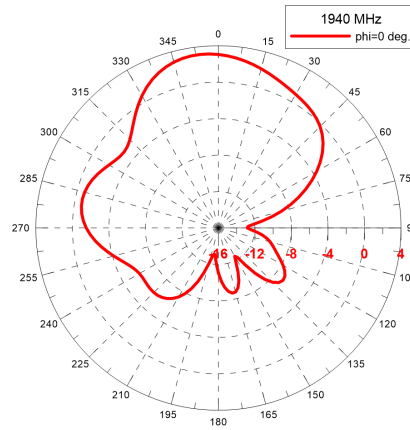
Radiation Specifications

1710~2170 MHz

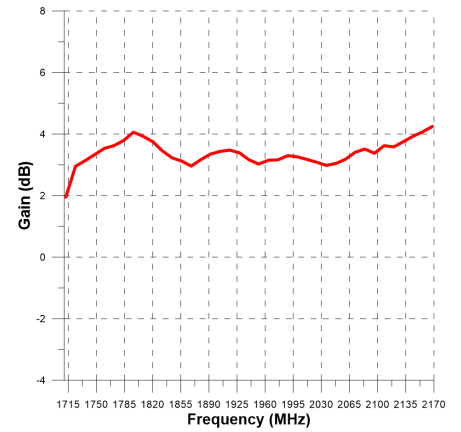
Efficiency vs. Frequency



Ettotal vs. Theta



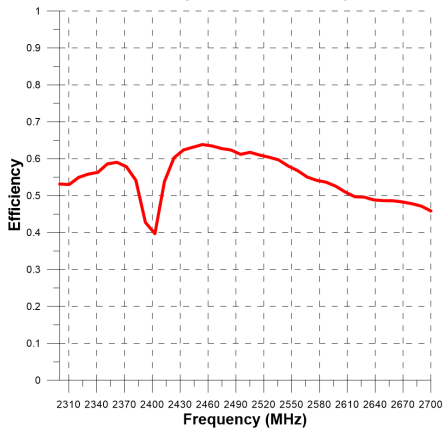
Gain vs. Frequency



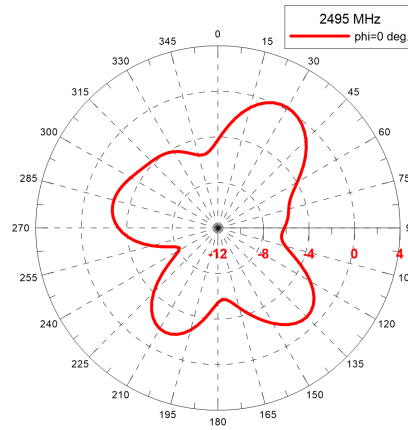
Radiation Specifications

2300~2690 MHz

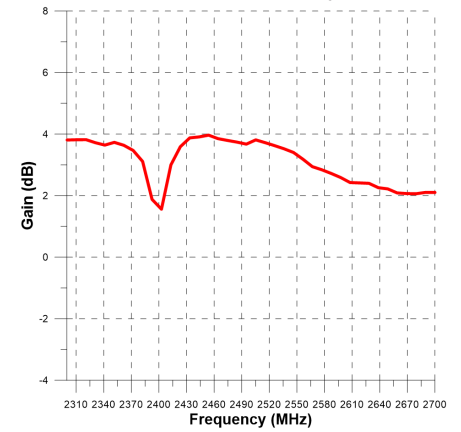
Efficiency vs. Frequency

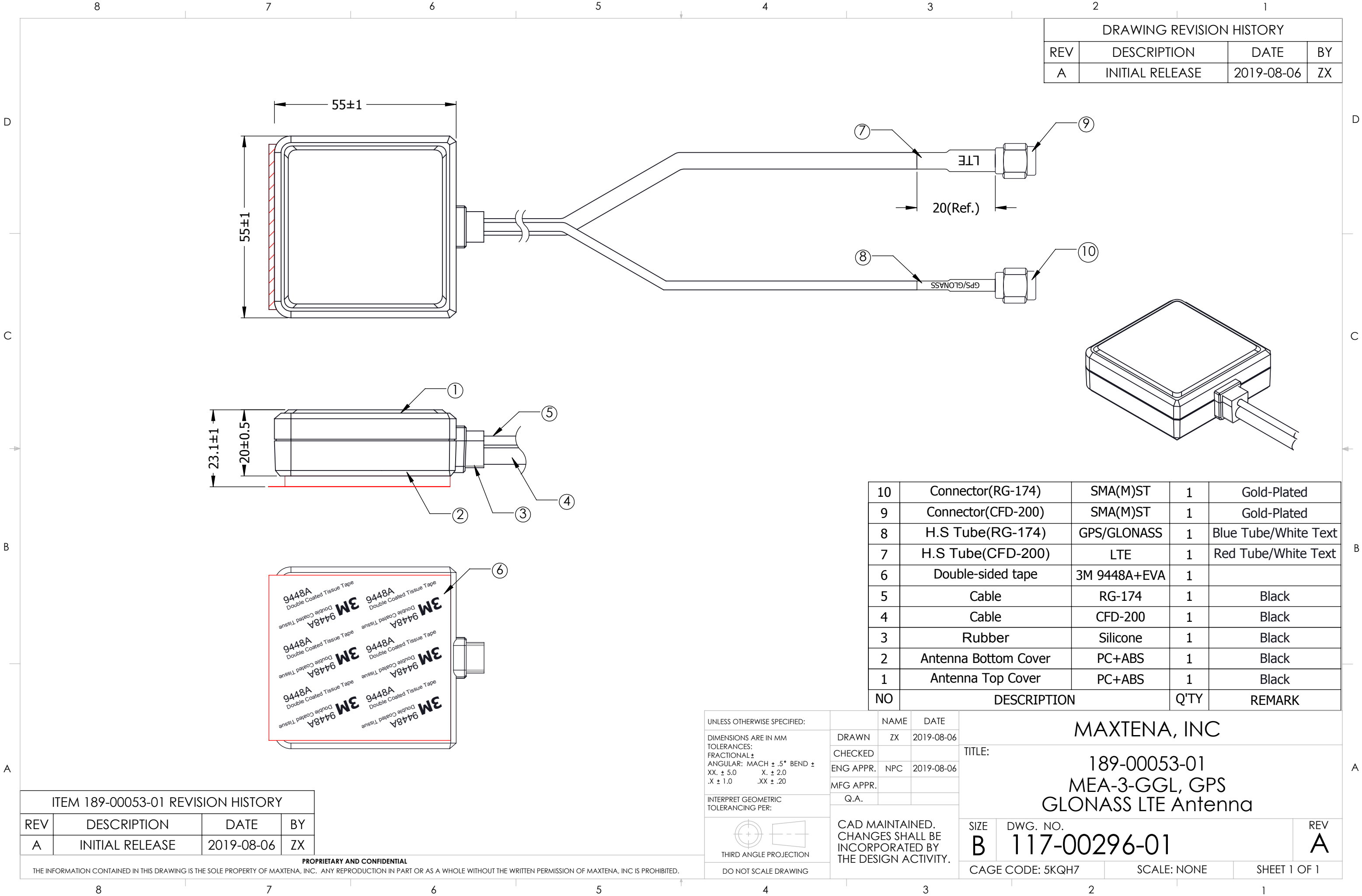


Ettotal vs. Theta



Gain vs. Frequency





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