

MEA-1700-LTE

LOW PROFILE LTE ANTENNA

Part #: 100-00109-01



Description

The blade MEA-1700-LTE is a high performance dipole antenna with a N-Type connector for 3G, 4G, and LTE modems, access points, routers, and small base station applications. The antenna is 215 mm long and covers the LTE frequency ranges of 698-2700 MHz providing omni-directional radiation with a gain of 2 dBi.

LTE Antenna Electrical Specifications	
Frequency Range (MHz)	698~960 / 1710~2700 MHz
VSWR	3.5 : 1 Max
Impedance	50 Ω
Average Gain	0~1 dBi
Average Efficiency	5150~5850 MHz $\geq$ 35~60%
Radiation	Omni-directional
Polarization	Linear; Vertical
Admitted Power	1 W

Features

- 3G/4G/LTE modems
- Ultra-Wideband Automotive Antenna
- Low profile for easy installation
- Small size: 20 x 215 mm³
- ROHS Compliant
- IPX67

Applications

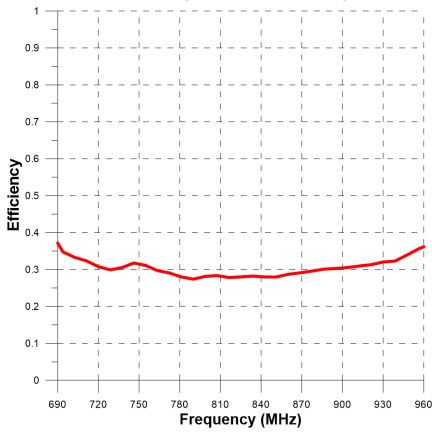
- 4G router/Hub or access point
- Small base stations
- Automotive
- Fleet tracking
- IOT
- Telematics

Mechanical Specifications	
Antenna Dimensions (mm)	20 x 215 mm ³
Operating Temperature	-30 °C +75 °C
Housing Material & Color	PC & White or Black
Connector	N-Type
Waterproof	IPX7

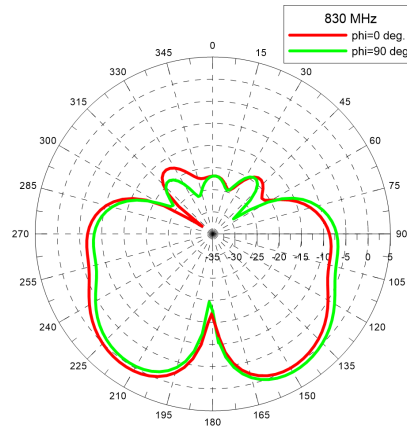
Radiation Specifications

698~960 MHz

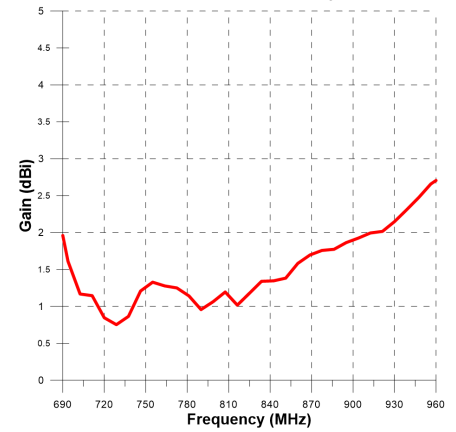
Efficiency vs. Frequency



Ettotal vs. Theta



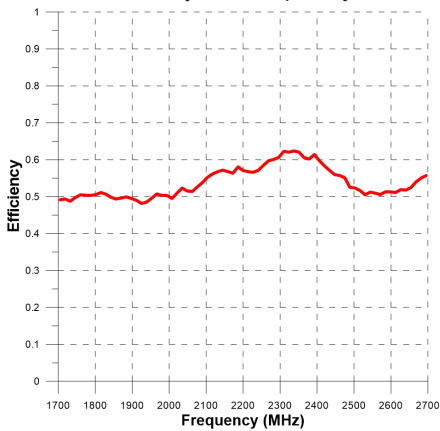
Gain vs. Frequency



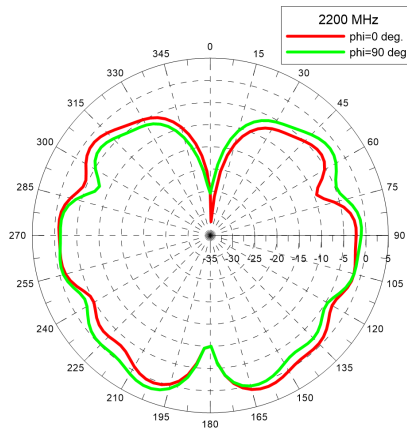
Radiation Specifications

1710~2700 MHz

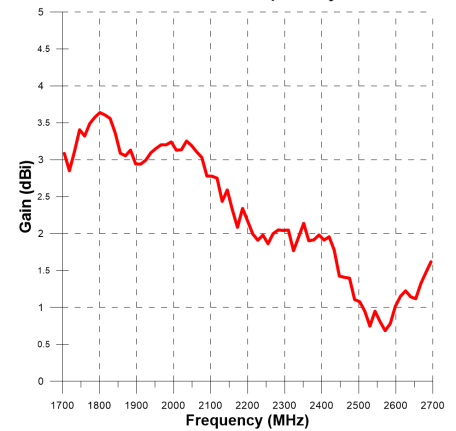
Efficiency vs. Frequency

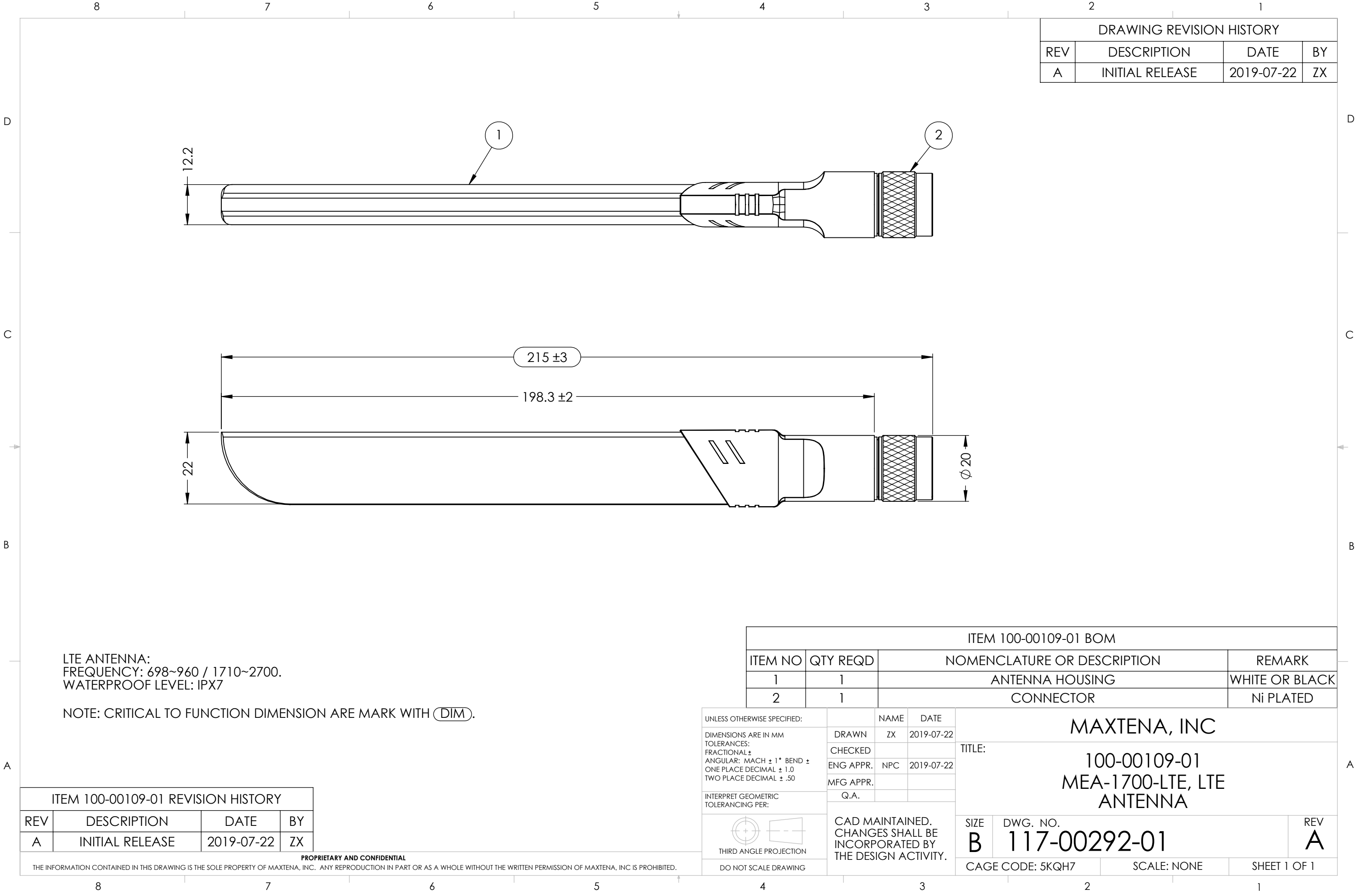


Ettotal vs. Theta



Gain vs. Frequency





LTE ANTENNA:
FREQUENCY: 698~960 / 1710~2700.
WATERPROOF LEVEL: IPX7

NOTE: CRITICAL TO FUNCTION DIMENSION ARE MARK WITH (DIM).

ITEM 100-00109-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2019-07-22	ZX

ITEM 100-00109-01 BOM			
ITEM NO	QTY REQD	NOMENCLATURE OR DESCRIPTION	REMARK
1	1	ANTENNA HOUSING	WHITE OR BLACK
2	1	CONNECTOR	Ni PLATED

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± 1° BEND ± ONE PLACE DECIMAL ± 1.0 TWO PLACE DECIMAL ± .50		NAME	DATE	MAXTENA, INC TITLE: 100-00109-01 MEA-1700-LTE, LTE ANTENNA	
		DRAWN	ZX 2019-07-22		
		CHECKED			
		ENG APPR.	NPC 2019-07-22		
INTERPRET GEOMETRIC TOLERANCING PER:		MFG APPR.		SIZE B	
		Q.A.			
 THIRD ANGLE PROJECTION		CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.		DWG. NO. 117-00292-01	
				REV A	
DO NOT SCALE DRAWING				CAGE CODE: 5KQH7	
				SCALE: NONE	
				SHEET 1 OF 1	

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