

MEA-2700-LTE

LOW PROFILE LTE ANTENNA

Part #: 100-00126-01



Description

The MEA-2700-LTE is a ultra-rugged broadband 4G LTE antenna featuring a N-Type connector. It covers the LTE frequency ranges 698-960 MHz| 1710-2700 MHz| 2500-2700 MHz with a nominal gain of 3 dBi. This low-profile antenna is designed to provide industry leading wide-band performance and optimal coverage of LTE frequencies, with minimum loss and no tuning required. The MEA-2700-LTE antenna compact housing consists of black ABS UV resistant plastic, with a heavy-duty metal base. The antenna is rated IP66.

Electrical Specifications

Parameter	Specification
Frequency Range	698-960 / 1710-2700 / 2500-2700 MHz
Bandwidth	262/460/200 MHz
Gain	3 dBi
VSWR	≤ 2.5
Radiation	Omni-directional
Polarization	Vertical
Maximum Input Power	50W
Impedance	50 Ω

Mechanical Specifications

Parameter	Specification
Antenna Dimensions	22 x 66mm
Weight	46g
Operating Temperature	-40 °C to +70 °C
Antenna Radome Material	ABS
Connector	N Female
ROHS Compliant	Yes

Features

- Low profile design for easy installation
- Heavy duty applications
- Can be used for mobile and fixed base applications
- Compact housing that makes the antenna ideal for indoor or outdoor applications
- Covers all cellular/LTE frequencies: 698-960/1710-2170/2500-2700 MHz
- Small size: 22 x 66mm
- ROHS compliant
- Rated IP66

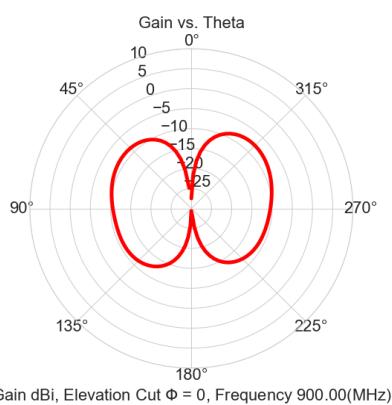
Applications

- M2M applications
- IoT
- Telematics
- Asset tracking
- Fleet tracking
- Automotive

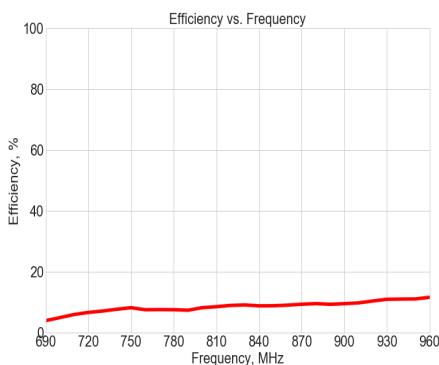
Radiation Specifications

698-960 MHz

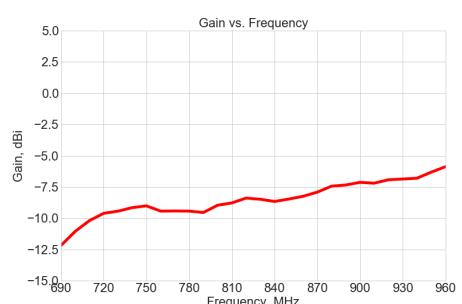
Gain vs. Theta



Efficiency vs. Frequency



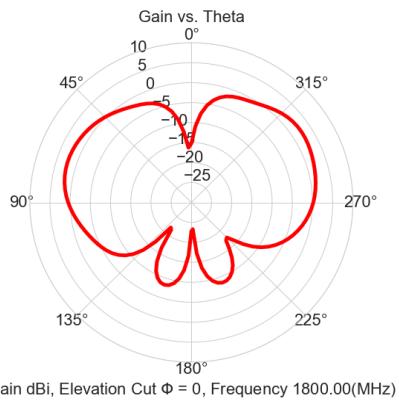
Gain vs. Frequency



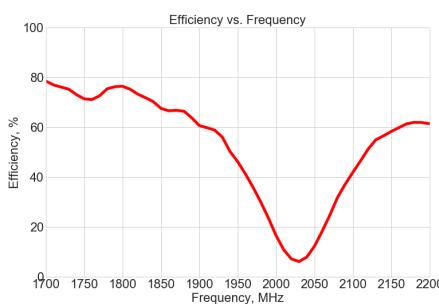
Radiation Specifications

1710-2700 MHz

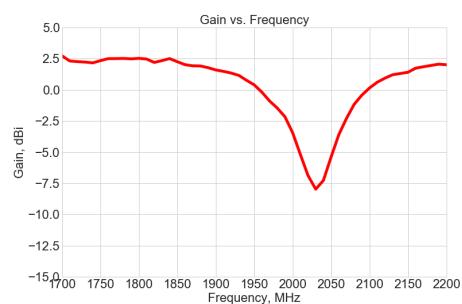
Gain vs. Theta



Efficiency vs. Frequency



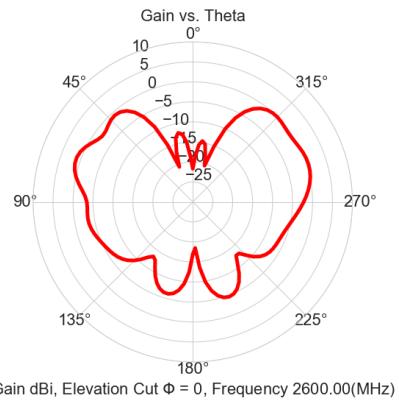
Gain vs. Frequency



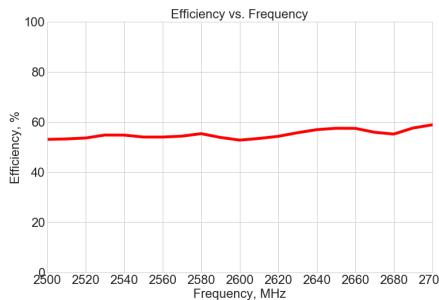
Radiation Specifications

2500-2700 MHz

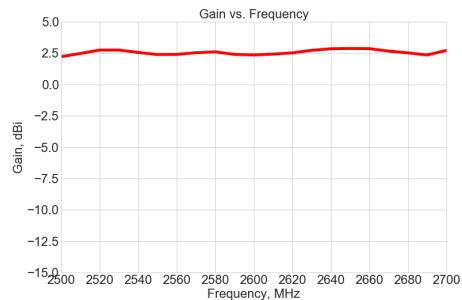
Gain vs. Theta



Efficiency vs. Frequency



Gain vs. Frequency



DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2020-01-24	ZX

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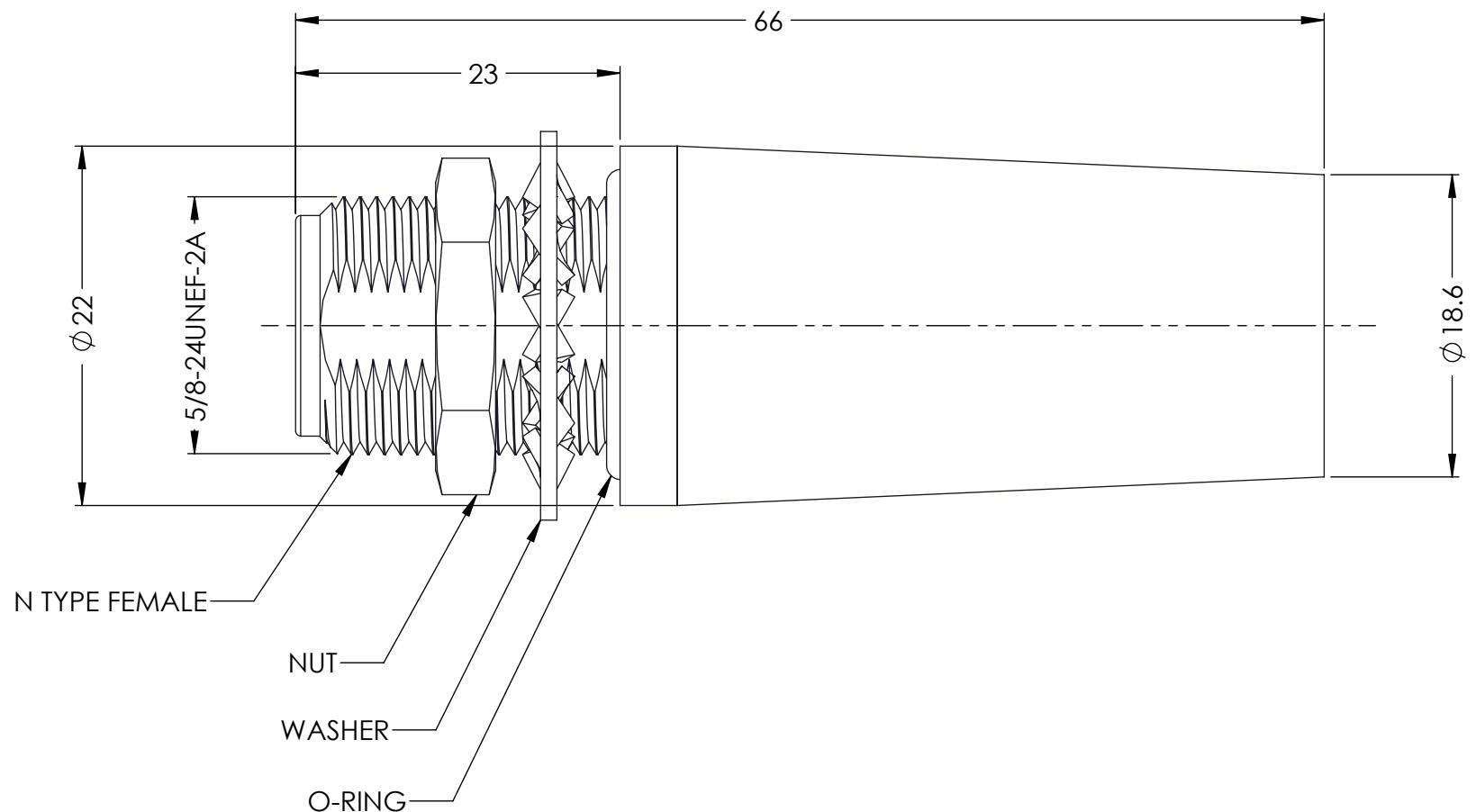
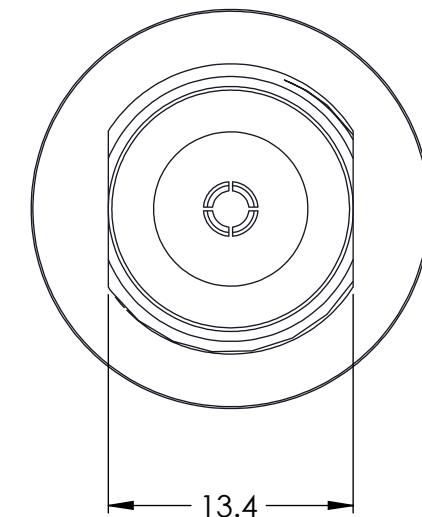
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NOTES:

- FREQUENCY: 698-960 / 1710-2700MHz.
- GAIN: 3dB.
- CONNECTOR: N TYPE FEMALE.
- IMPEDANCE: 50Ω.
- TEMPERATURE: -40~+75°C.
- INPUT POWER: 50W.
- WEIGHT: 38g.

ITEM 100-00126-01 REVISION HISTORY

REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2020-01-24	ZX

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
TOLERANCES:
FRACTIONAL: ANGULAR: MACH $\pm .5^\circ$ BEND \pm
ONE PLACE DECIMAL ± 1.0
TWO PLACE DECIMAL $\pm .50$

INTERPRET GEOMETRIC
TOLERANCING PER:
THIRD ANGLE PROJECTION

CAD MAINTAINED.
CHANGES SHALL BE
INCORPORATED BY
THE DESIGN ACTIVITY.
DO NOT SCALE DRAWING

DRAWN ZX 2020-01-24
CHECKED
ENG APPR. NPC 2020-01-24
MFG APPR.
Q.A.

TITLE:
100-00126-01
MEA-2700-LTE

SIZE DWG. NO. REV
B 117-00313-01 A
CAGE CODE: 5KQH7 SCALING: NONE SHEET 1 OF 1

Mouser Electronics

Authorized Distributor

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