

Omni Antenna 698-2,700 MHz N Type Connector

The LTE outdoor omnidirectional FM510M1038 antenna from Fairview Microwave is a high performance RF component which operates from 698 to 960 MHz and 1710 to 2700 MHz. The FM510M1038 antenna is ideal for 5G, LTE, CDMA, LPWAN/IoT/M2M applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the Fairview Microwave FM510M1038 antenna can be used for a wide array of cellular telecommunication wireless applications where wide coverage is desired. Fairview Microwave's FM510M1038 can be used to distribute Cellular signals throughout an outdoor area.

The Type N connectorized FM510M1038 antenna with vertical polarization from Fairview Microwave provides excellent outdoor coverage for all base station applications. The Type N connectorized FM510M1038 antenna from Fairview Microwave excels in large open areas. The mounting bracket and hardware are included for easy installation. Fairview Microwave LTE outdoor omnidirectional with Type N female purchases will ship the same day. Our FM510M1038 antenna is part of over one million RF, microwave and millimeter wave components in stock and ready for same-day shipment worldwide.

Configuration

Design	Omni
Gain	6 to 8 dBi
Polarization	Vertical
Cable Type	700
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	698		2,700	MHz
Input VSWR		1.7:1		
Impedance		50		Ohms
Input Power			100	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.698-0.96	1.71-2.7				GHz
Gain	6	8				dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	25	18				Degrees

Mechanical Specifications

Radome Material	PVC
Size	
Length	27.5591 in [700 mm]
Width	2.3622 in [60 mm]
Height	2.3622 in [60 mm]



Features:

- All weather operation
- Includes heavy duty steel mast mounting brackets
- PVC radome
- Integral N-Female connector
- Rugged industrial grade design
- 360° Omnidirectional Pattern

Applications:

- 700, 800, 900, 1800, 1900, 2100, 2400, 2600 Cellular Band Operation
- Supports midband LTE and 5G networks
- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 6/8 dBi gain

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Mounting Mast Diameter 1.18 to 2.36 in [29.97 to 59.94 mm]
Weight 6.61 lbs [3 kg]

Environmental Specifications

Temperature

Operating Range -40 to +60 deg C

Wind Loading 134.216 MPH [216 KPH]

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

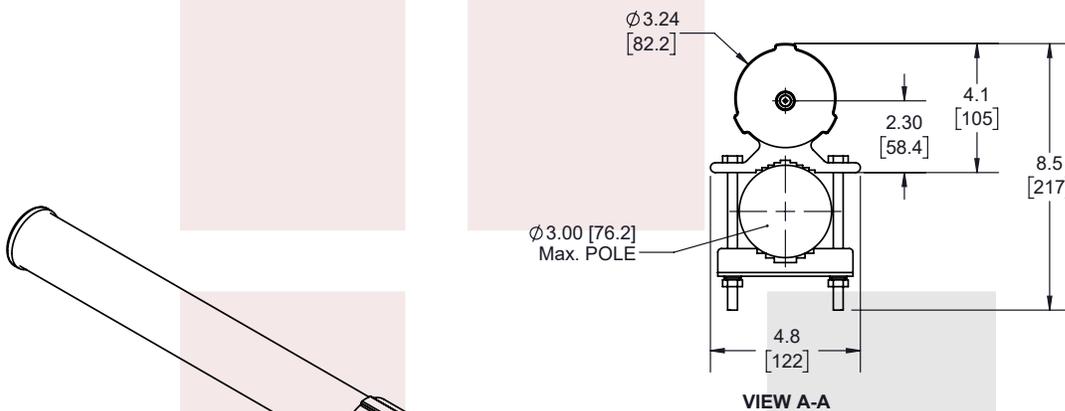
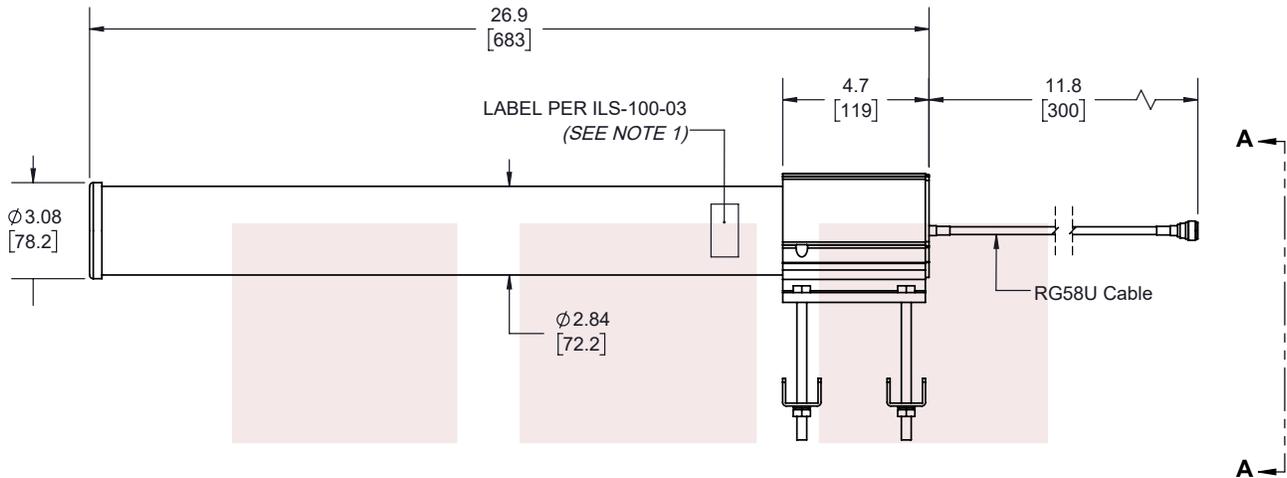
Omni Antenna 698-2,700 MHz N Type Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Omni Antenna 698-2,700 MHz N Type Connector FM510M1038](#)

URL: <https://www.fairviewmicrowave.com/antenna-0-n-female-fm510m1038-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/11/2022	K. HIETPAS



NOTES:

- LABEL PER ILS-100-03. FOR INTERNAL USE ONLY. LABEL LOCATION FOR REFERENCE ONLY.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.



TITLE
Omni Antenna 698-2,700 MHz N Type Connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FM510M1038	REV A
-----------	--------------------	--------------------	------------------------	----------

T-Rev.D