

6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Connector

The 5G /LTE outdoor omnidirectional FM510M1039 antenna from Fairview Microwave is a high performance RF component which operates from 617 to 2700 MHz. The FM510M1039 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 FM510M1039 antenna can be used for a wide array of cellular telecommunication wireless applications where wide coverage is desired. Fairview Microwave's FM510M1039 can be used to distribute Cellular signals throughout an outdoor area.

The Type N connectorized FM510M1039 antenna with vertical polarization from Fairview Microwave provides excellent outdoor coverage for all base station applications. The Type N connectorized FM510M1039 antenna from Fairview Microwave excels in large open areas. The mounting bracket and hardware are included for easy installation. Fairview Microwave 5G / LTE outdoor omnidirectional with Type N female purchases will ship the same day. Our FM510M1039 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 6 dBi
Polarization	Vertical
Connector Type	N Female
Number of Ports	2

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	617		2,700	MHz
Impedance		50		Ohms
Gain		6		dBi
Input Power			50	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617-0.96	1.71-2.7				GHz
Gain	6	6				dBi
Horiz. Beam Width	360	360				Degrees
Vert. Beam Width	40	25				Degrees
VSWR	2:1	2:1				

Mechanical Specifications

Radome Material	Polycarbonate
Size	
Length	35.1 in [891.54 mm]
Width	3.1 in [78.74 mm]
Height	3.1 in [78.74 mm]
Mounting Mast Diameter	1.97 to 3.54 in [50.04 to 89.92 mm]



Features:

- All weather operation
- Includes heavy duty steel mast mounting brackets
- Lightweight polycarbonate radome
- Integral N-Female connector
- Commercial grade design
- 360° Omnidirectional Pattern
- 4 to 6 dBi gain

Applications:

- Supports low and midband LTE and 5G networks
- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 600, 700, 800, 1800, 1900, 2100, 2600 Cellular Band Operation

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Weight 3.75 lbs [1.7 kg]

Environmental Specifications

Temperature

Operating Range -40 to +70 deg C

Wind Loading 124.27 MPH [199.99 KPH]

Humidity 91

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

Plotted and Other Data

Notes:

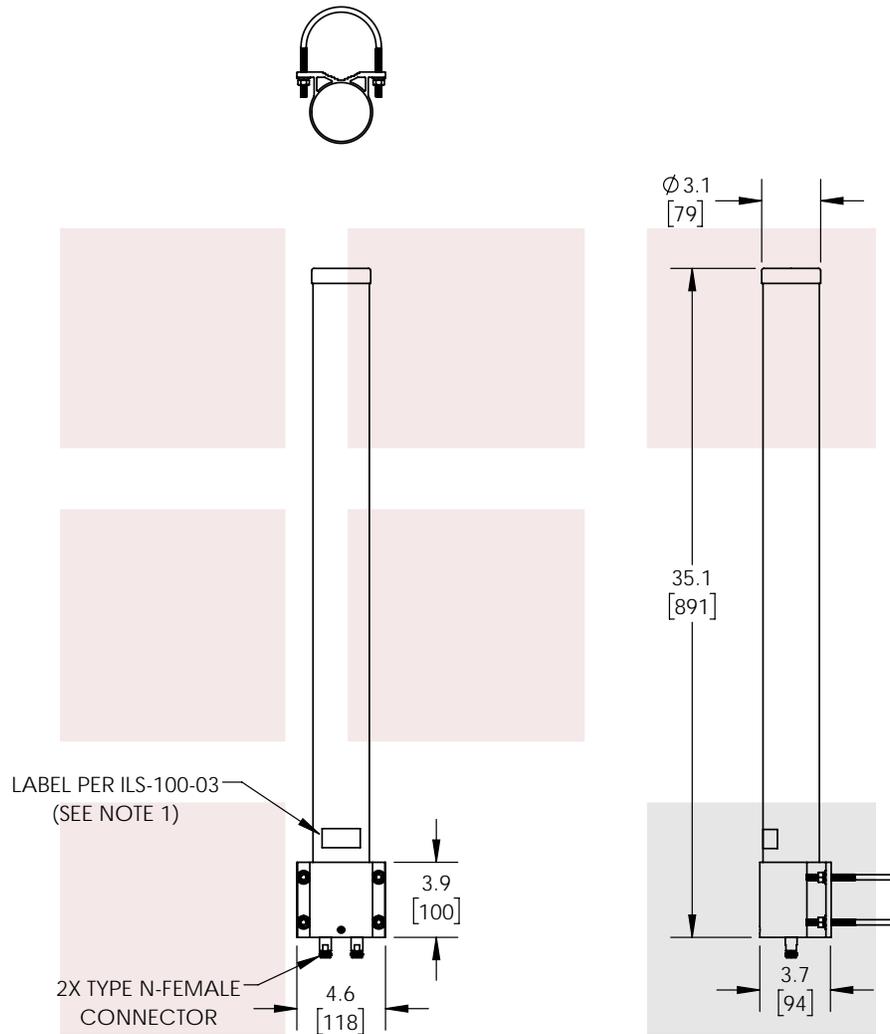
6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Connector FM510M1039](#)

URL: <https://www.fairviewmicrowave.com/antenna-6-dbi-n-female-fm510m1039-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	05/17/2021	KHIETPAS



LABEL PER ILS-100-03
(SEE NOTE 1)

2X TYPE N-FEMALE
CONNECTOR

3.9
[100]

4.6
[118]

- NOTES:
- LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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TITLE
6 dBi MIMO Omni Antenna 617-2,700 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 ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]		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



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FM510M1039	REV A
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T-Rev.D