

## 8 dBi Omni Antenna 3,300-3,800 MHz N Type Connector

The 5G / LTE outdoor omnidirectional FM510M1047 antenna from Fairview Microwave is a high performance RF component which operates from 3300 to 3800 MHz. The FM510M1047 antenna is ideal for 5G, LTE, 2x2 MIMO applications in CBRS band. The Multi-Band design of the Fairview Microwave FM510M1047 antenna can be used for a wide array of cellular telecommunication wireless applications where wide coverage is desired. Fairview Microwave's FM510M1047 can be used to distribute Cellular signals throughout an outdoor area.

The Type N connectorized FM510M1047 antenna with Dual Slant ( $\pm 45^\circ$ ) polarization from Fairview Microwave provides excellent outdoor coverage for all base station applications. The Type N connectorized FM510M1047 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 FM510M1047 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
Polarization	$\pm 45$ Deg. Slant
Cable Type	3500
Connector Type	N Female
Number of Ports	2
Lightning Protection	DC Ground

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	3,300		3,800	MHz
Input VSWR		2:1		
Impedance		50		Ohms
Gain		8		dBi
Gain Variation		$\pm 1$		dBi
Isolation		30		dB
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		7		Degrees
Input Power			100	Watts

### Mechanical Specifications

Radome Material	PVC
<b>Size</b>	
Length	21.7 in [551.18 mm]
Width	3 in [76.2 mm]
Height	3 in [76.2 mm]
Mounting Mast Diameter	1.18 to 2.16 in [29.97 to 54.86 mm]
Weight	2.2 lbs [997.9 g]



### Features:

- All weather operation
- $\pm 45$  Slant
- 2x2 MIMO
- PVC radome
- Integral N-Female connectors
- Commercial grade design
- 360° Omnidirectional Pattern

### Applications:

- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 8 dBi gain
- 3500, LTE, and CBRS Cellular Band Operation

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**Environmental Specifications**

**Temperature**

Operating Range -40 to +60 deg C

Wind Loading 124.274 MPH [200 KPH]

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

**Plotted and Other Data**

Notes:

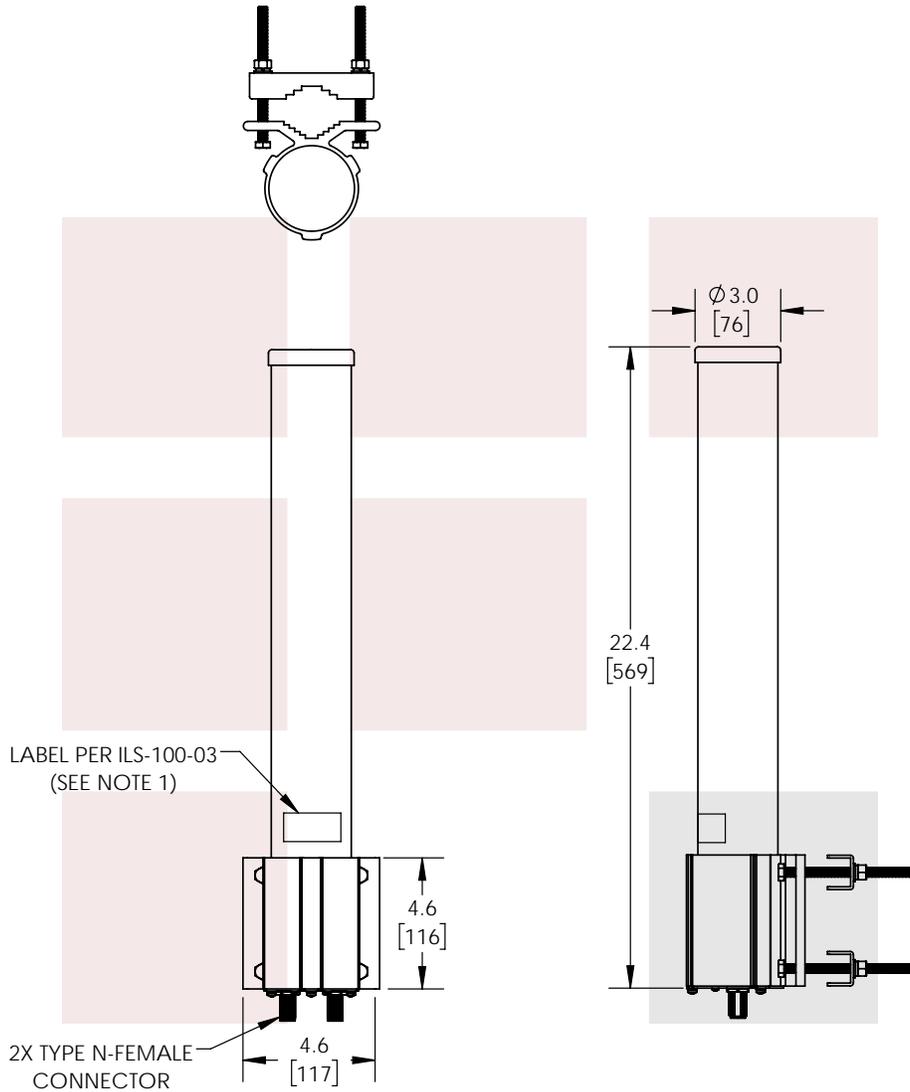
8 dBi Omni Antenna 3,300-3,800 MHz N Type Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [8 dBi Omni Antenna 3,300-3,800 MHz N Type Connector FM51OM1047](#)

URL: <https://www.fairviewmicrowave.com/antenna-8-dbi-n-female-fm51om1047-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	05/04/2021	KHIETPAS



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

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:      CABLE LENGTH (L) TOLERANCES:</p> <p>.X = ±.2 [5.08]    FRACTIONS      L ≤ 12 [305] = +1 [25] / -0          .XX = ±.02 [.51]    ± 1/32      12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0          .XXX = ±.005 [.13]    ANGLES ± 1°    60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0          120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0          300 [7620] &lt; L = +5%L / -0</p>		<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>	
	<p>TITLE</p> <p>8 dBi Omni Antenna 3,300-3,800 MHz N Type Connector</p>		<p>SHEET 1 OF 1</p>	
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>				<p>SCALE</p> <p>N/A</p>
<p>SIZE</p> <p>A</p>	<p>CAGE CODE</p> <p>3FKR5</p>	<p>DRAWN BY</p> <p>BPUCHASKI</p>	<p>ITEM NO.</p> <p>FM510M1047</p>	<p>REV</p> <p>A</p>

T-Rev.D