

2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Female Connector

The FM510M1050 from the Fairview Microwave antenna is high performance outdoor omnidirectional antenna specifically designed for cellular networks. This FM510M1050 outdoor antenna is an economically rugged omnidirectional antenna that provides high reliability due to its fiberglass radome. This Omni antenna has a 12 dBi gain and 2400 to 2500 MHz frequency range that offers great coverage for rural areas or difficult-to-cover areas.

The 2400 to 2500 MHz frequency range omnidirectional antenna has coverage of Wi-Fi, CBRS bands 4G, LTE, 5G, and CBRS bands. The FM510M1050 omnidirectional antenna has vertical polarization with a cable length of 47.244 inches. All the components in the omnidirectional fiberglass antenna is DC grounded for lightning protection.

The 12 dBi high gain omnidirectional outdoor-rated antenna has 360 degrees of coverage to offer range extension and simple deployment to build Wi-Fi and cellular communication networks. This 2400 to 2500 MHz Omni antenna has N-type Female connectors that makes installation easy and fast allowing for rapid time to on air activation. The versatile N-type Female connector option in the Omni antenna allows direct connections to the radios and is fit where high coverage is required and traditional base station antennas are too bulky.

Fairview Microwave has a stock of FM510M1050 antenna with same-day shipping. The weatherproof fiberglass omnidirectional antenna has 100 W maximum power handling capability and covers all telecom needs. For further information on similar products, search this website or contact our expert technical support who would be happy to guide you to the perfect 2400 to 2500 MHz, 12 dBi gain omnidirectional antenna for your requirement.

Configuration

Gain	12
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		2,500	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		12		dB
Input Power			100	Watts

Mechanical Specifications

Radome Material	Fiberglass
Size	
Length	50 in [127 cm]
Width	2 in [50.8 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	1.57 to 1.96 in [39.88 to 49.78 mm]
Weight	7.2 lbs [3.27 kg]



Features:

- All weather operation
- Includes heavy duty steel mast mounting brackets
- Lightweight fiberglass radome
- Integral N-Female connector
- Commercial grade design
- 360° Omnidirectional Pattern

Applications:

- 2400 Band Operation
- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 12 dBi gain

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Environmental Specifications

Temperature

Operating Range -40 to +70 deg C

Wind Loading 124.274 MPH [200 KPH]

Humidity 5 to 95

Ingress Protection IP67

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

Plotted and Other Data

Notes:

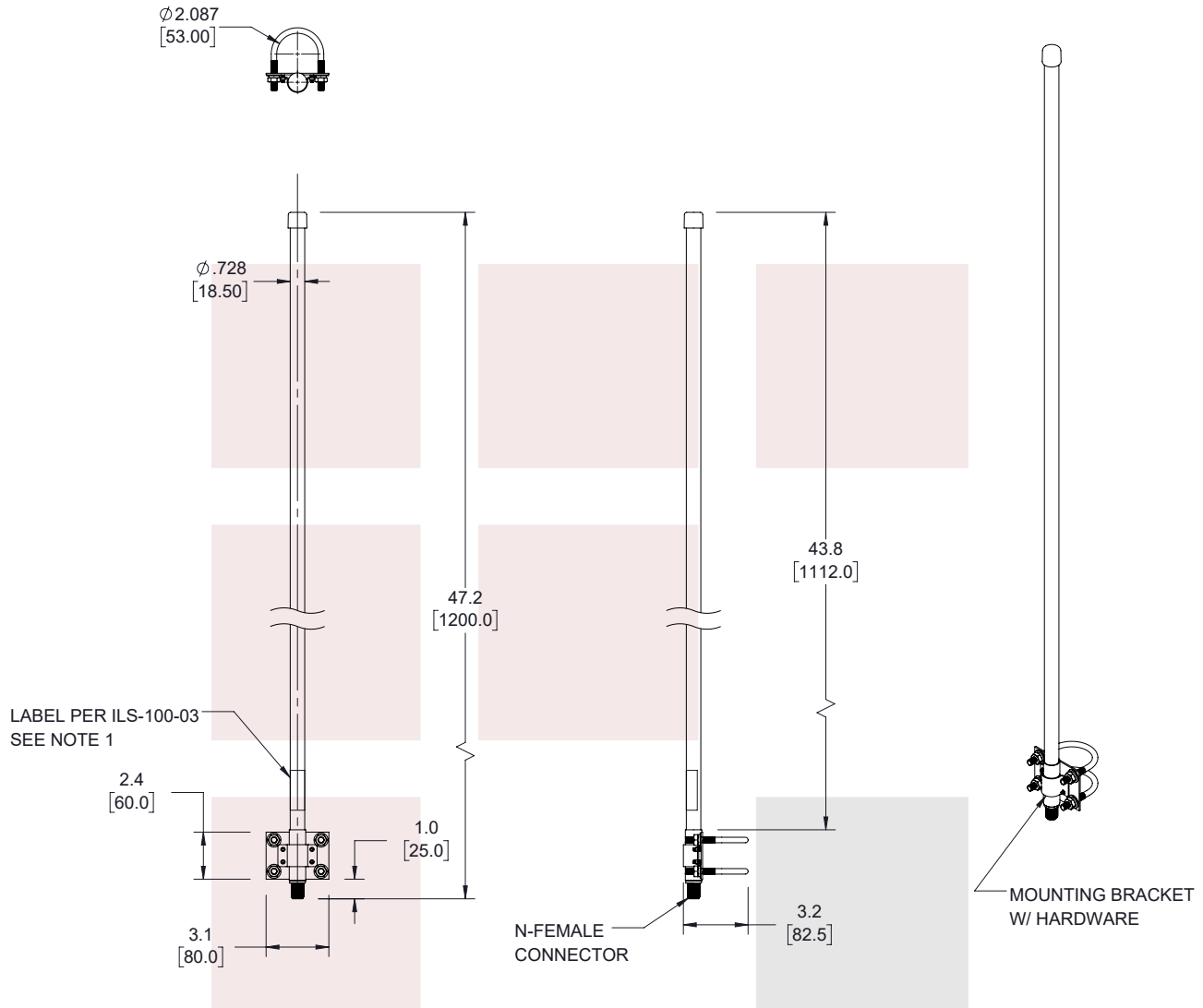
2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Female Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2400-2500 MHz 12dBi Omnidirectional Fiberglass Antenna, N Female Connector FM51OM1050](#)

URL: <https://www.fairviewmicrowave.com/2400-2500-mhz-12dbi-omnidirectional-fiberglass-antenna-n-female-connector-fm51om1050-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/02/2022	WZHANG



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

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<p>Fairview Microwave an INFINIT® brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [5.08]</td> <td>FRACTIONS</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [.51]</td> <td>± 1/32</td> <td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td>ANGLES ± 1°</td> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] < L = +5%L / -0</td> </tr> </table>		.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	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p>
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<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY WZHANG</p>	<p>ITEM NO. FM510M1050</p> <p>REV A</p>															

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