WiFi 6e, 2400-2500/4900-7250 MHz 4/7 dBi, Stick Omni, N Male

FMANOM1161

Features

- Type N Male Connector
- Outdoor Rated Omnidirectional Antenna
- 2.4 GHz, 5 GHz, 6 GHz WiFi Bands
- 4 dBi gain

Applications

- Infotainment systems, Routers, WiFi hotspots, HD video transmission, Gateways, Dash cameras, Public transportation
- WiFi 6e (802.11ax) networks
- Connected cars or self-driving cars, Fleet management, Logistics
- Public Safety Networks
- IoT, Industrial IoT, Zigbee, Bluetooth, WiFi

Description

The FMANOM1161 WiFi 6e Stick Omni Antenna from Fairview Microwave is a high performance omnidirectional antenna designed for the 2400 MHz to 7125 MHz bands and is available to ship same day. It features a Type N Male connector, UV protection, omni-directional patterns for outdoor or indoor use. The FMANOM1161 is ideally suited for 802.11 protocols including 802.11ax as well as IoT, Zigbee and Bluetooth.

The Fairview Microwave high performance omni FMANOM1161 is a rugged antenna providing broad coverage, low latency, increased network capacity and 4 dBi gain. This N Type Male omnidirectional antenna is suitable for commercial radios and access points in public and private networks that are equipped with N Female connectors. Fairview Microwave's FMANOM1161 supports 2.4, 5 and 6 GHz bands.

This WiFi 6e FMANOM1161 omni antenna N Type Male connectors, as well as our wide selection of superior quality RF parts, ships same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Fairview Microwave products.

Configuration

Design	Omni
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		7,250	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	2.4 to 2.5	4.9 to 7.25				GHz
Gain	4	7				dBi
Horizontal HPBW	360	360				Degrees
Vertical HPBW	30	18				Degrees

© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.
+1 (866) 839-4711 | sales@fairviewmicrowave.com | fairviewmicrowave.com

WiFi 6e, 2400-2500/4900-7250 MHz
4/7 dBi, Stick Omni, N Male

FMANOM1161

Mechanical Specifications

Radome Material	Fiberglass
Size	
Length	0 in [0 mm]
Width	0 in [0 mm]
Height	0 in [0 mm]
Weight	0.295 lbs [133.81 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	124 MPH [199.56 KPH]
Humidity	5 to 95 %

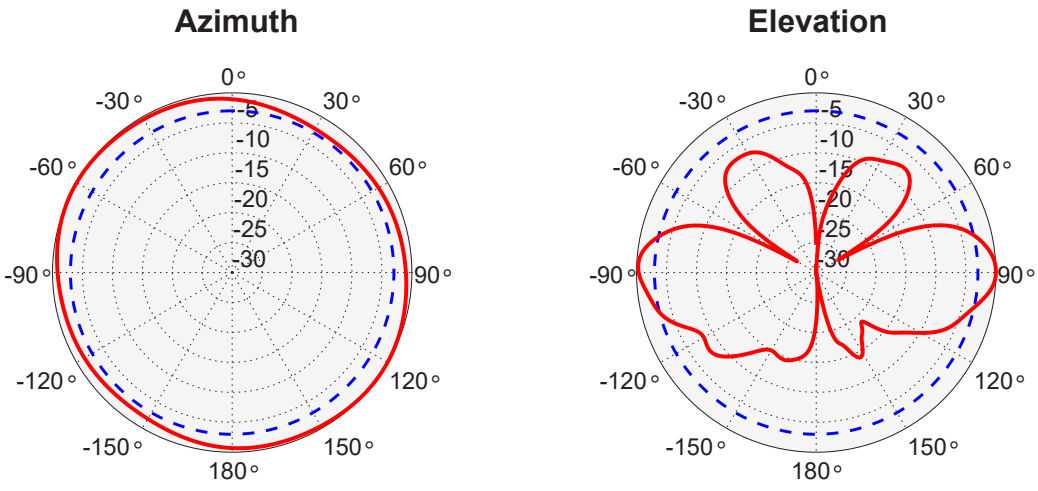
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Radiation Pattern

Radiation Patterns at 2450 MHz



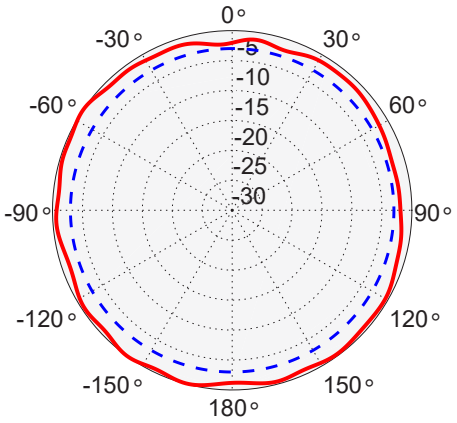
© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.

WiFi 6e, 2400-2500/4900-7250 MHz
4/7 dBi, Stick Omni, N Male

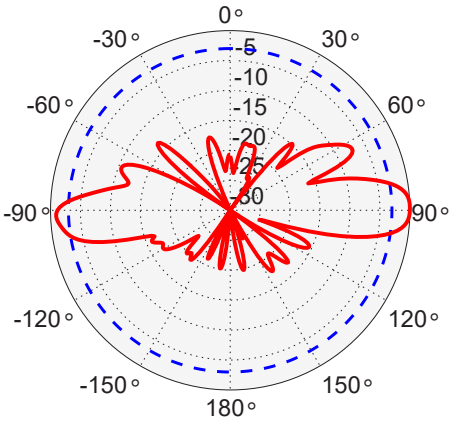
FMANOM1161

Radiation Patterns of 5850 MHz

Azimuth



Elevation



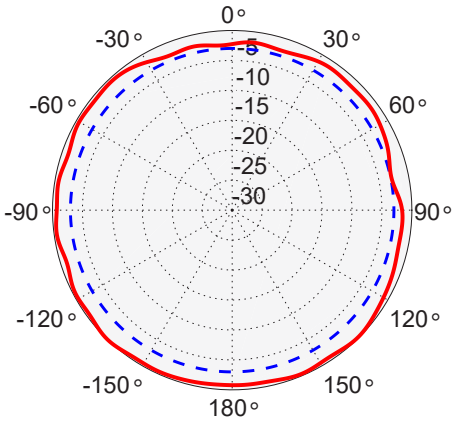
© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.
+1 (866) 839-4711 | sales@fairviewmicrowave.com | fairviewmicrowave.com

WiFi 6e, 2400-2500/4900-7250 MHz
4/7 dBi, Stick Omni, N Male

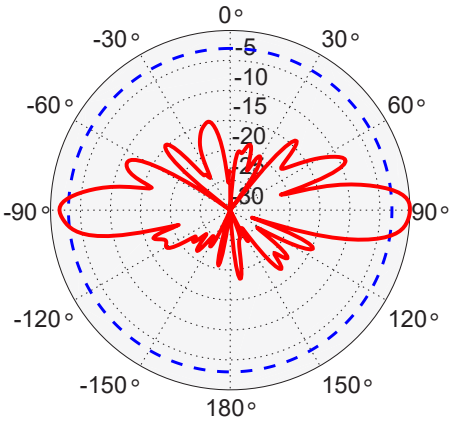
FMANOM1161

Radiation Patterns of 7125 MHz

Azimuth



Elevation



© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.

WiFi 6e, 2400-2500/4900-7250 MHz
4/7 dBi, Stick Omni, N Male

FMANOM1161

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

WiFi 6e, 2400-2500/4900-7250 MHz 4/7 dBi, Stick Omni, N Male 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: WiFi 6e, 2400-2500/4900-7250 MHz 4/7 dBi, Stick Omni, N Male FMANOM1161

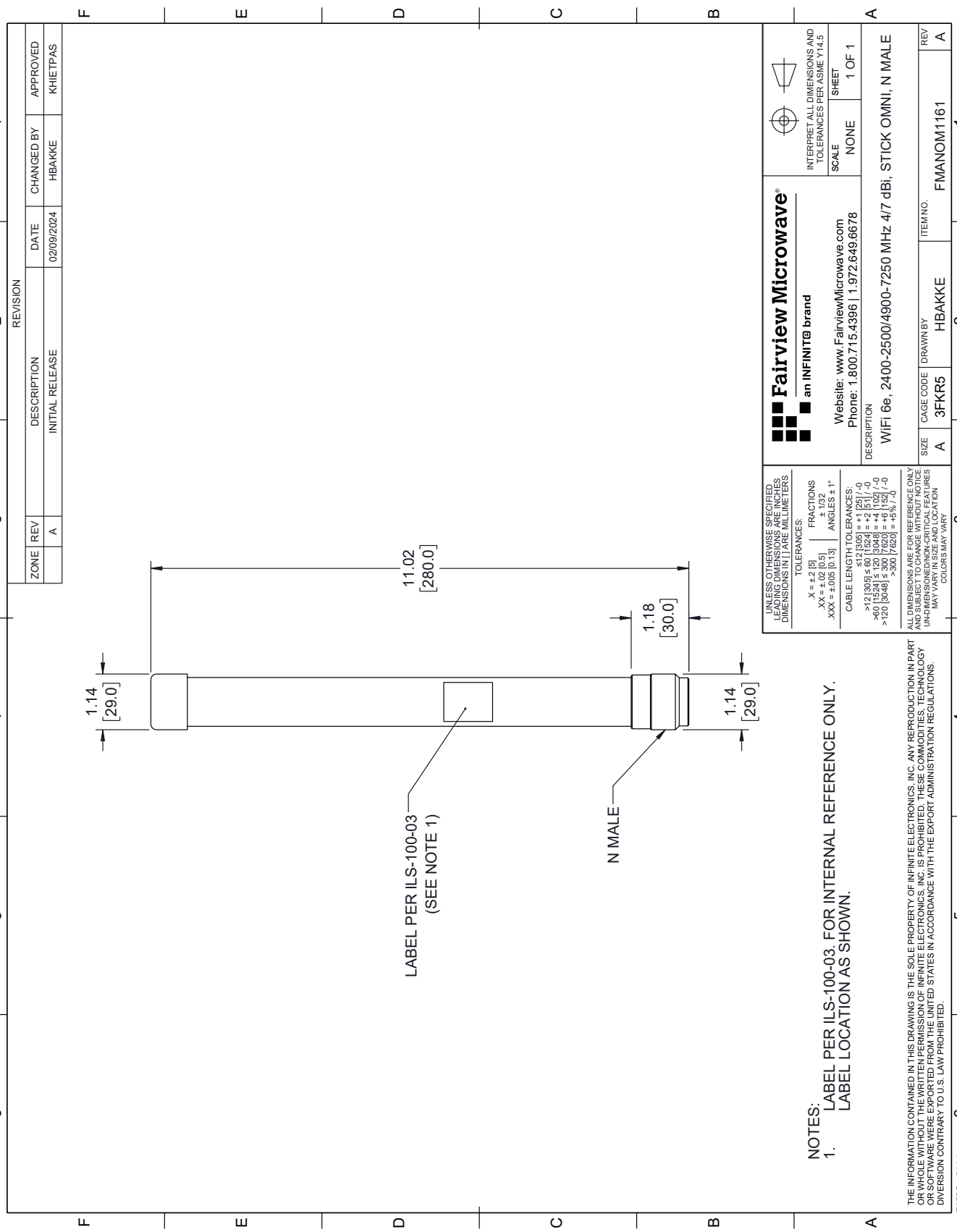
URL: https://www.fairviewmicrowave.com/product/antennas/dbi-dualband-omni-antenna-2400-7250-mhz-n-type-connector-fmanom1161.html

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.

FMANOM1161 CAD Drawing

WiFi 6e, 2400-2500/4900-7250 MHz 4/7 dBi, Stick Omni, N Male



© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.