

**C-band Omni Antenna 4.4 GHz to 5 GHz, N Type Male, IP65 Rated**

**Description**

The FMANOM1141 is an C-band Omnidirectional Antenna, proudly presented by Fairview Microwave cutting-edge solution for military antennas and unmanned vehicle applications. Operating in the frequency range of 4.4 GHz to 5 GHz, this antenna ensures superior communication performance. Constructed with precision using top-tier materials, the FMANOM1141 features a robust N-male connector, providing unparalleled connectivity. Its stable 3.5 dBi gain makes it a reliable choice for mission-critical operations.

The FMANOM1141 utilizes a collinear dipole array radiator with an integrated balun, ensuring ground plane independence and suitability for any mounting platform, such as manpacks and mobile electronic devices. Designed and intended for use in extreme operational conditions, this antenna from Fairview Microwave sets the standard for excellence in military communication and unmanned vehicle applications. The 4.4 GHz to 5 GHz frequency band is strategically chosen, aligning with crucial military and government communication requirements. Additionally, C-band antennas, known for their versatility, find wide application in military and avionics systems, including radar, navigation, and data link systems.

**Configuration**

Design	Portable
Polarization	Vertical
Connector Type	N Male
Number of Ports	1

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	4,400		5,000	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain	4		5	dBi
Input Power			10	Watts

**Mechanical Specifications**

<b>Size</b>	
Length	7 in [177.8 mm]
Width	1 in [25.4 mm]
Height	1 in [25.4 mm]
Weight	0.5 lbs [226.8 g]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-31 to +51 deg C
Storage Range	-31 to +71 deg C
Environment	MIL-STD-820F
Wind Loading	62.14 MPH [100 KPH]
Shock	20 G / 10 mS X, Y, Z axes
Vibration	MIL-STD-167-1 type 1



**Features:**

- C-band 4400 MHz to 5000 MHz
- N-type Male RF Connector
- Stable 3.5 dBi gain typical
- Ground plane independent
- Precision Construction
- IP65 Rated

**Applications:**

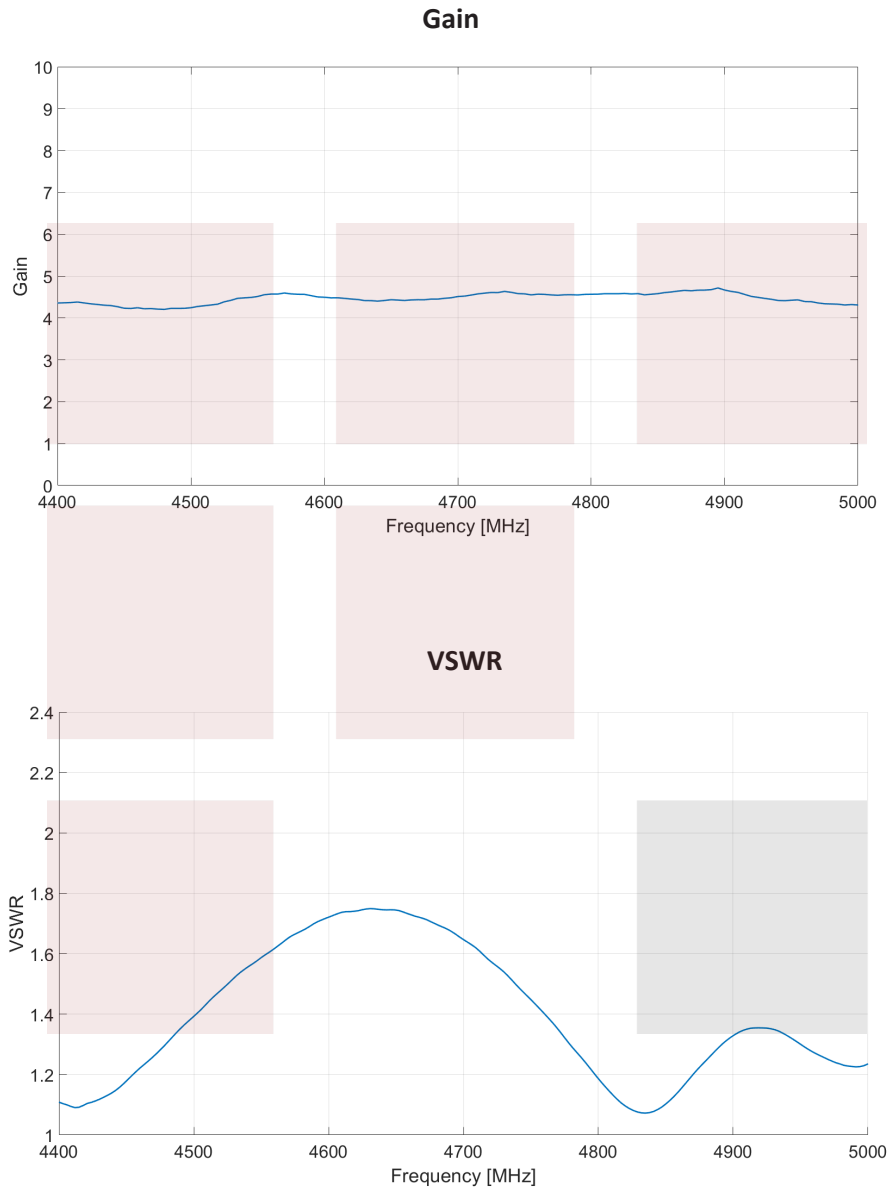
- C-band
- Military Communication
- Unmanned Operations
- Manpack Radio Systems
- Secure Communications
- Defense and Strategic Installations
- Surveillance Systems

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

**Plotted and Other Data**

Notes:



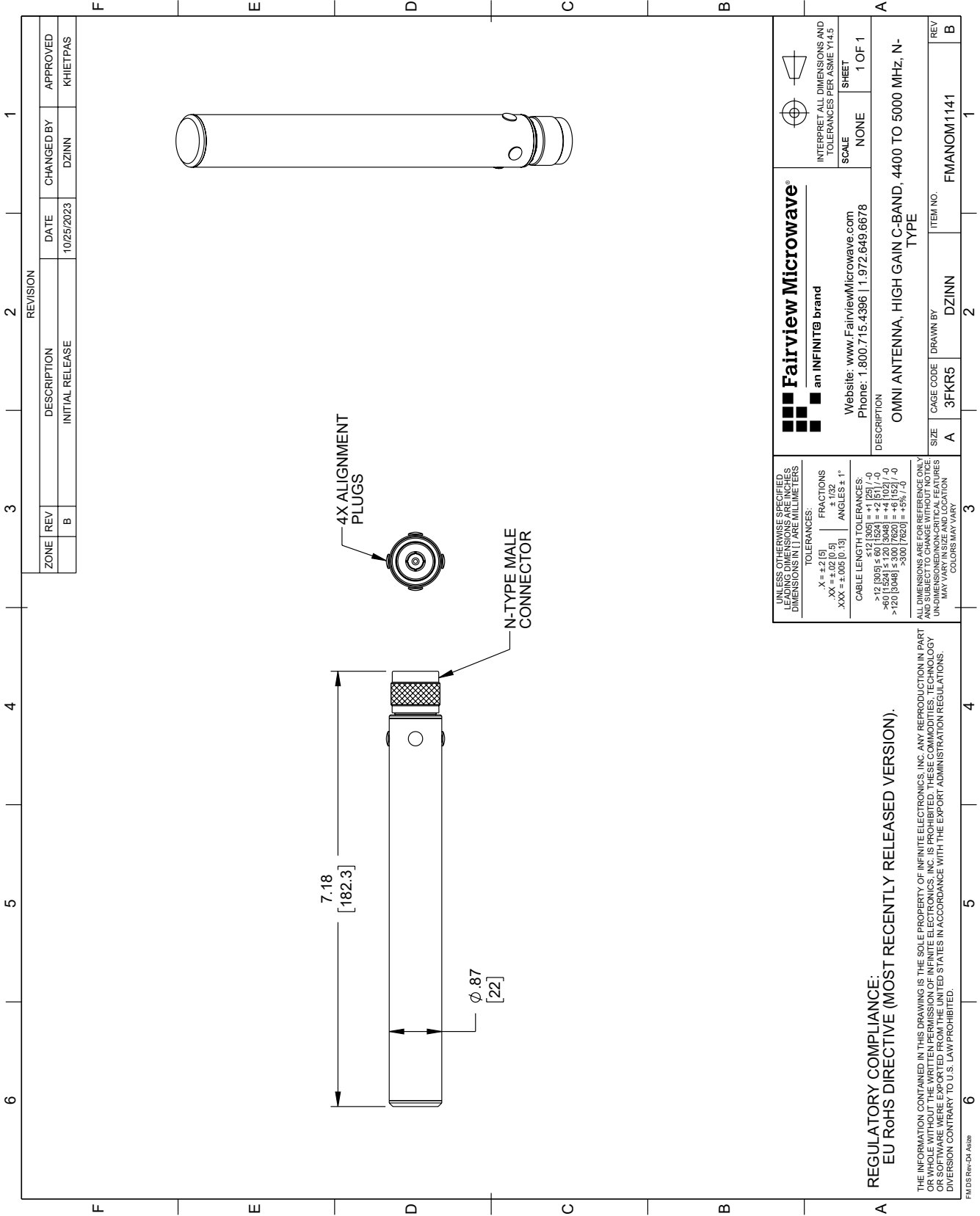
C-band Omni Antenna 4.4 GHz to 5 GHz, N Type Male, IP65 Rated from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [C-band Omni Antenna 4.4 GHz to 5 GHz, N Type Male, IP65 Rated FMANOM1141](#)

URL: <https://www.fairviewmicrowave.com/c-band-omni-antenna-4.4-ghz-to-5-ghz-n-type-male-ip65-rated-fmanom1141-p.aspx>

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ZONE		REVISION	
REV	DESCRIPTION	DATE	CHANGED BY
B	INITIAL RELEASE	10/25/2023	DZINN
			APPROVED
			KHIETPAS

<b>Fairview Microwave</b> an INFINIT <sup>®</sup> brand Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: OMNI ANTENNA, HIGH GAIN C-BAND, 4400 TO 5000 MHz, N-TYPE		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FMANOM1141
DRAWN BY: DZINN		REV: B

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE IN MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS ± 1/32  
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤ 12 [305] ± .1 [25] / -0  
 > 12 [305] ≤ 60 [1524] ± .2 [51] / -0  
 > 60 [1524] ≤ 300 [7620] ± .6 [152] / -0  
 > 300 [7620] ± .5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

REGULATORY COMPLIANCE:  
 EU RoHS DIRECTIVE (MOST RECENTLY RELEASED VERSION).

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