

S-band Omni Antenna 2 GHz to 2.5 GHz, N Type Male, IP65 Rated

Description

The FMANOM1142 is an S-band Omnidirectional Antenna, proudly presented by Fairview Microwave cutting-edge solution for military antennas and unmanned vehicle applications. Operating in the frequency range of 2 GHz to 2.5 GHz, this antenna ensures superior communication performance. Constructed with precision using top-tier materials, the FMANOM1142 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 FMANOM1142 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 2 to 2.5 GHz frequency band is strategically chosen, aligning with crucial military and government communication requirements. Additionally, S-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	2,000		2,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain	4		5	dBi
Input Power			20	Watts

Mechanical Specifications

Size	
Length	12.9 in [327.66 mm]
Width	1 in [25.4 mm]
Height	1 in [25.4 mm]
Weight	0.5 lbs [226.8 g]

Environmental Specifications

Temperature	
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:

- S-band 2000 MHz to 2500 MHz
- N-type Male RF Connector
- Stable 3.5 dBi gain typical
- Ground plane independent
- Precision Construction
- IP65 Rated

Applications:

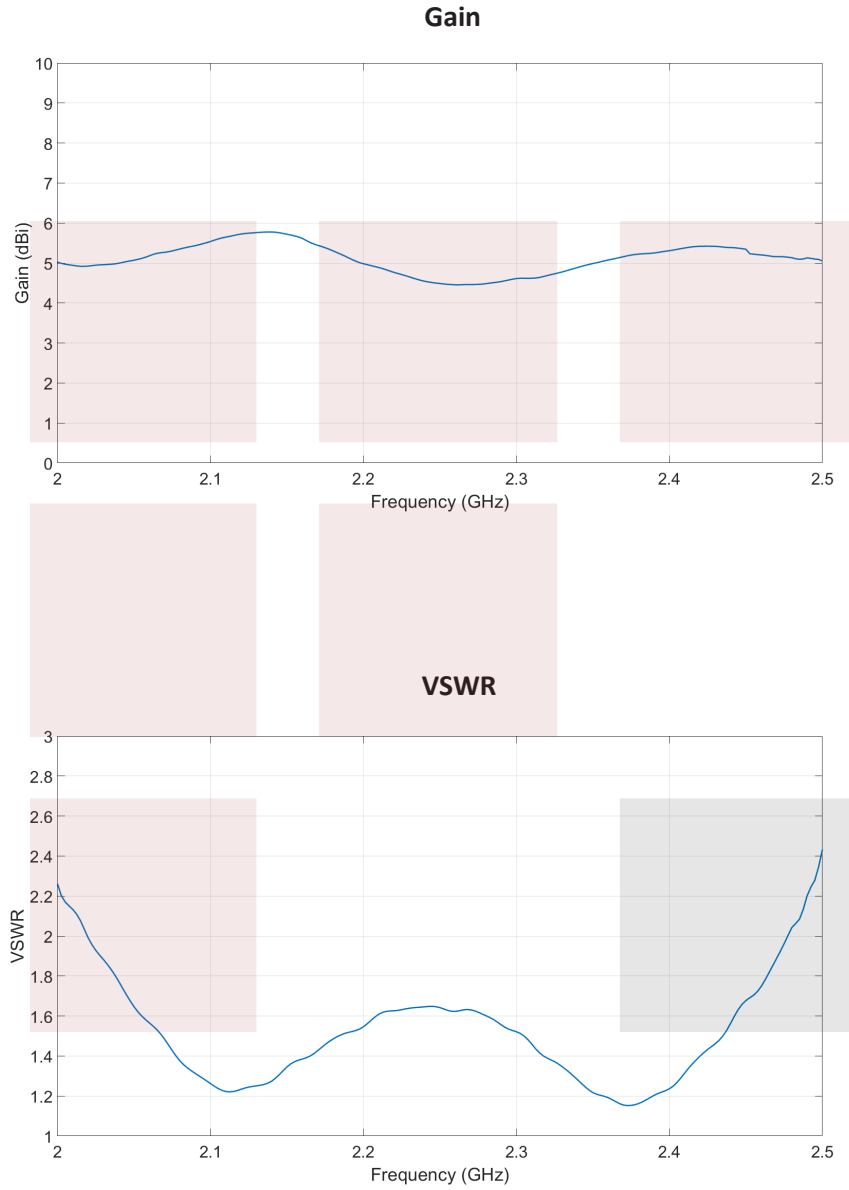
- S-band
- Military Communication
- Unmanned Operations
- Manpack Radio Systems
- Secure Communications
- Defense and Strategic Installations
- Surveillance Systems

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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

Plotted and Other Data

Notes:



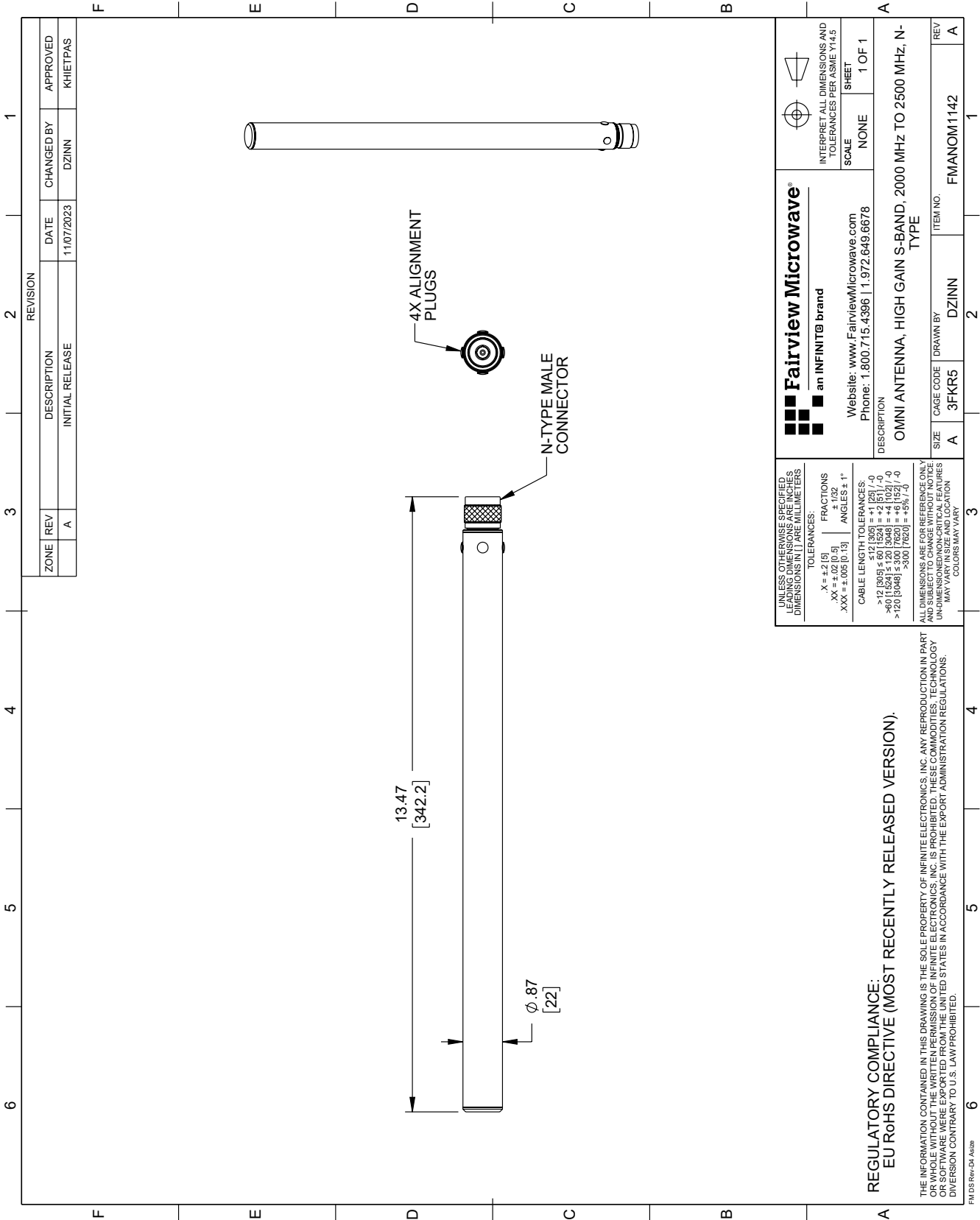
S-band Omni Antenna 2 GHz to 2.5 GHz, N Type Male, IP65 Rated from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [S-band Omni Antenna 2 GHz to 2.5 GHz, N Type Male, IP65 Rated FMANOM1142](#)

URL: <https://www.fairviewmicrowave.com/s-band-omni-antenna-2-ghz-to-2.5-ghz-n-type-male-ip65-rated-fmanom1142-p.aspx>

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			

DESCRIPTION	ITEM NO.	SIZE	CAGE CODE	DRAWN BY	REV
OMNI ANTENNA, HIGH GAIN S-BAND, 2000 MHZ TO 2500 MHZ, N-TYPE		A	3FKR5	DZINN	A

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

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .01 [25] / -0
 ≤ 60 [1524] ± .02 [51] / -0
 ≤ 120 [3048] ± .03 [762] / -0
 ≤ 300 [7620] ± .05 [127] / -0
 > 300 [7620] ± .06 [152] / -0

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

Fairview Microwave
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Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1

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