

2450 MHz, Gooseneck Antenna, SMA Male Connector

FMANOM1149



Features

- 2450 MHz Operating Frequency
- Flexible Gooseneck
- SMA Male Connector
- 1.5:1 VSWR
- 10 Watt Max Input Power
- Typical 3 dBi Gain

Applications

- Unmanned Vehicles
- Manpack Radio Systems
- Secure Communications
- Surveillance Systems
- Mobile Systems

Description

The FMANOM1149 from Fairview Microwave is an omnidirectional gooseneck antenna that features a flexible gooseneck mounting base. This flexible antenna can be bent and repositioned at any angle, allowing users to optimize signal reception and transmission in any environment. Our single-band gooseneck antenna with vertical polarization can operate at a minimum frequency of 2400 MHz, a center frequency of 2450 MHz, and a maximum frequency of 2500 MHz.

Fairview Microwave's FMANOM1149 gooseneck antenna has an impedance of 50 Ohms and a maximum input power of 10 Watts. This omnidirectional antenna is designed to withstand temperatures ranging from -40 to 80 degrees C. Our vertical polarized antenna has an overall length of 12.4 inches, a width of 1.5 inches, and a weight of 0.33 lbs. This gooseneck antenna is lightweight and compact, making it easy to transport and deploy in the field.

This vertically polarized antenna has a maximum input VSWR of 1.5:1. Our single-band gooseneck antenna with an SMA male connector has a nominal gain of 3.5 dBi. This FMANOM1149 antenna comes with a black TPE radome that offers a protective covering without compromising the antenna system's performance.

Configuration

Design	Gooseneck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		3.5		dBi
Input Power			10	Watts

Mechanical Specifications

Radome Material	TPE
Size	
Length	13 in [330.2 mm]
Width	1.5 in [38.1 mm]

2450 MHz, Gooseneck Antenna, SMA Male Connector

FMANOM1149



Height	1.5 in [38.1 mm]
Weight	0.5 lbs [226.8 g]

Environmental Specifications

Temperature Operating Range	-40 to +80 deg C
---------------------------------------	------------------

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

Plotted and Other Data

Notes:

Typical Radiation Pattern

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.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

2450 MHz, Gooseneck Antenna, SMA Male 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.

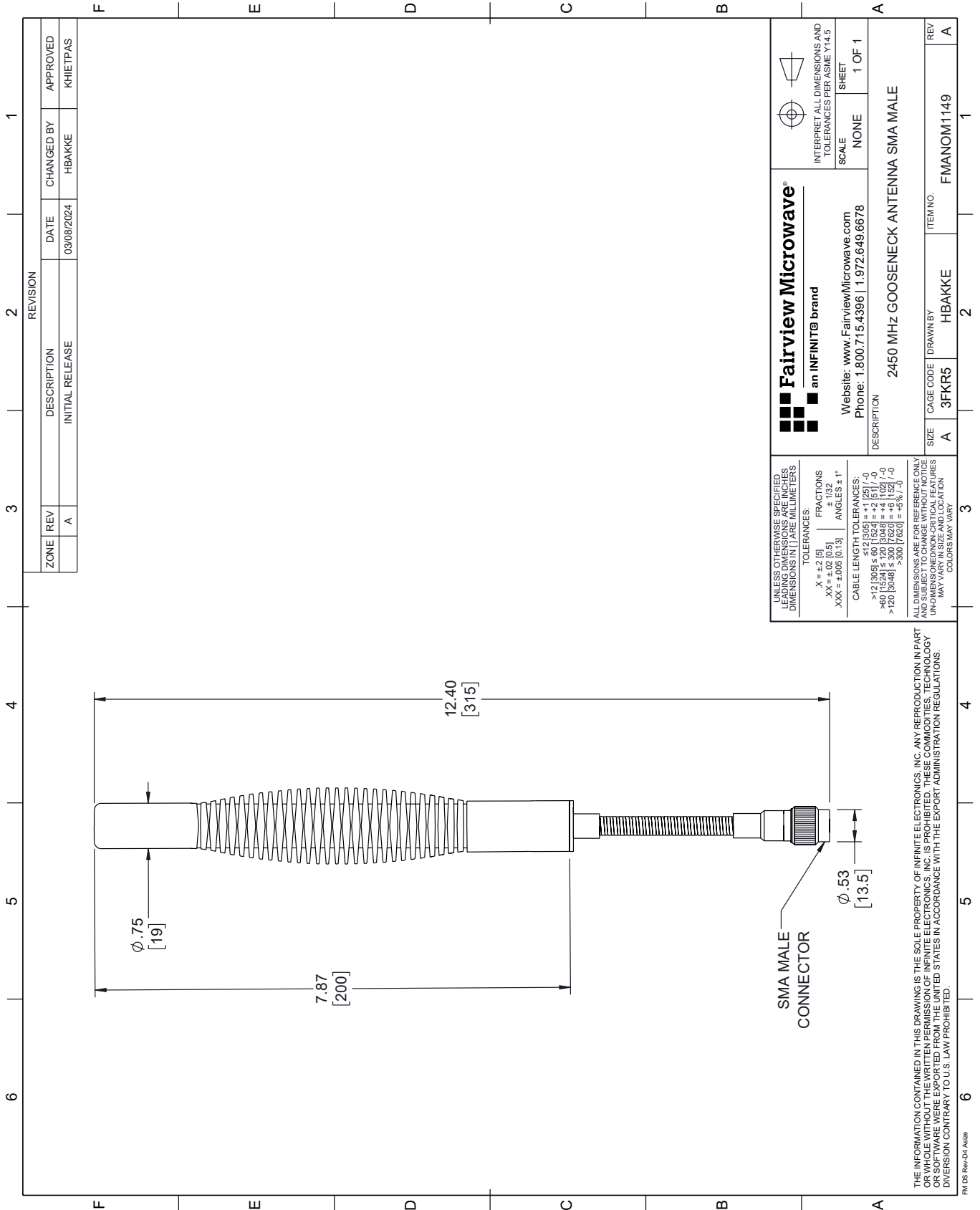
For additional information on this product, please click the following link: [2450 MHz, Gooseneck Antenna, SMA Male Connector FMANOM1149](#)

URL: <https://www.fairviewmicrowave.com/3.5-dbi-gooseneck-antenna-2400-2500-mhz-sma-connector-fmanom1149-p.aspx>

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 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 liability arising out of the use of any part or document.

FMANOM1149 CAD Drawing

2450 MHz, Gooseneck Antenna, SMA Male Connector



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	03/08/2024	HBAKKE	KHETTPAS

REVISION	
2	
3	
4	
5	
6	

Fairview Microwave an INFINIT® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678			
2450 MHz GOOSENECK ANTENNA SMA MALE		1 OF 1		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
DESCRIPTION		SCALE		SHEET	
SIZE		CAGE CODE		ITEM NO.	
A		3FKR5		FMANOM1149	
DRAWN BY		REVISION		REV	
HBAKKE		A		A	

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

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

CABLE LENGTH TOLERANCES:
<12 [305] ≤ 60 [1524] = ±.1 [25] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.8 [20] / -0
>300 [7620] = ±.8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

FM DS Rev-D4 Alt2b