

27 MHz, Gooseneck Antenna, SMA Male Connector

FMANOM1145



Features

- 27 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 FMANOM1145 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 center frequency of 27 MHz.

Fairview Microwave's FMANOM1145 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 dBi. This FMANOM1145 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 |
|------------------|---------|---------|---------|-------|
| Center Frequency |         | 27      |         | MHz   |
| Input VSWR       |         |         | 1.5:1   |       |
| Impedance        |         | 50      |         | Ohms  |
| Gain             |         | 3       |         | dBi   |
| Input Power      |         |         | 10      | Watts |

Mechanical Specifications

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

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### FMANOM1145



|        |                   |
|--------|-------------------|
| Weight | 0.5 lbs [226.8 g] |
|--------|-------------------|

#### Environmental Specifications

|                                |                  |
|--------------------------------|------------------|
| Temperature<br>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.

27 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: [27 MHz, Gooseneck Antenna, SMA Male Connector FMANOM1145](#)

URL: <https://www.fairviewmicrowave.com/product/antennas/3-dbi-gooseneck-antenna-sma-connector-fmanom1145.html>

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FMANOM1145 CAD Drawing
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