

WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 10 dBi Nominal Gain, SMA Female Input Connector, ProLine

The Fairview Microwave FM9859B/SF-10 Proline series standard gain horn antenna (also known as waveguide horn) is part of our huge selection of waveguide antennas. This Fairview Microwave standard gain horn antenna is manufactured with a WR-137 input and a SMA waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-137, has a 10 dBi nominal gain. This WR-137 standard gain horn from Fairview Microwave has a female SMA waveguide to coax transition adapter.

The 10 dBi Fairview Microwave WR-137 horn antenna operates from 5.85 GHz to 8.2 GHz. Fairview Microwave's SMA female WR-137 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. It is part of over 40,000 RF, microwave and millimeter wave components available at Fairview Microwave.

Waveguide standard gain horn antennas, such as the FM9859B/SF-10, are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. The WR-137 FM9859B/SF-10 waveguide horn is US made and TAA compliant. Our WR-137 standard gain horn Proline antennas with SMA female interface can ship same day to anywhere in the world.

Configuration

| | |
|-------------------|---------------------------|
| Design | WR-137 Standard Gain Horn |
| Pattern | Directional |
| Polarization | Linear |
| Coaxial Interface | SMA Female |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------------------|------|-------|-----|-------|
| Frequency Range | 5.85 | | 8.2 | GHz |
| Impedance | | 50 | | Ohms |
| Waveguide Standard Gain Horn | | | | |
| Gain | | 10 | | dB |
| Waveguide to Coaxial Adapter | | | | |
| Input VSWR | | 1.3:1 | | |

Mechanical Specifications

| | |
|----------------|-------------------|
| Size | |
| Length | 4.48 in 113.79 mm |
| Width/Diameter | 2.02 in 51.31 mm |
| Height | 1.48 in 37.59 mm |
| Weight | 0.16 lbs 72.57 g |

RF Connector

| | |
|------|------------|
| Type | SMA Female |
|------|------------|

Waveguide Interface

| | |
|----------------|--------------|
| Waveguide Size | WR-137 |
| Flange Type | Square Cover |



Features:

- WR-137 Rectangular Waveguide Interface
- 5.85 GHz to 8.2 GHz
- 10 dBi Nominal Gain
- SMA Female Connector

Applications:

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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Environmental Specifications

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

Plotted and Other Data

2 Dimensional OML Drawing FM9859B/SF-10
Notes:

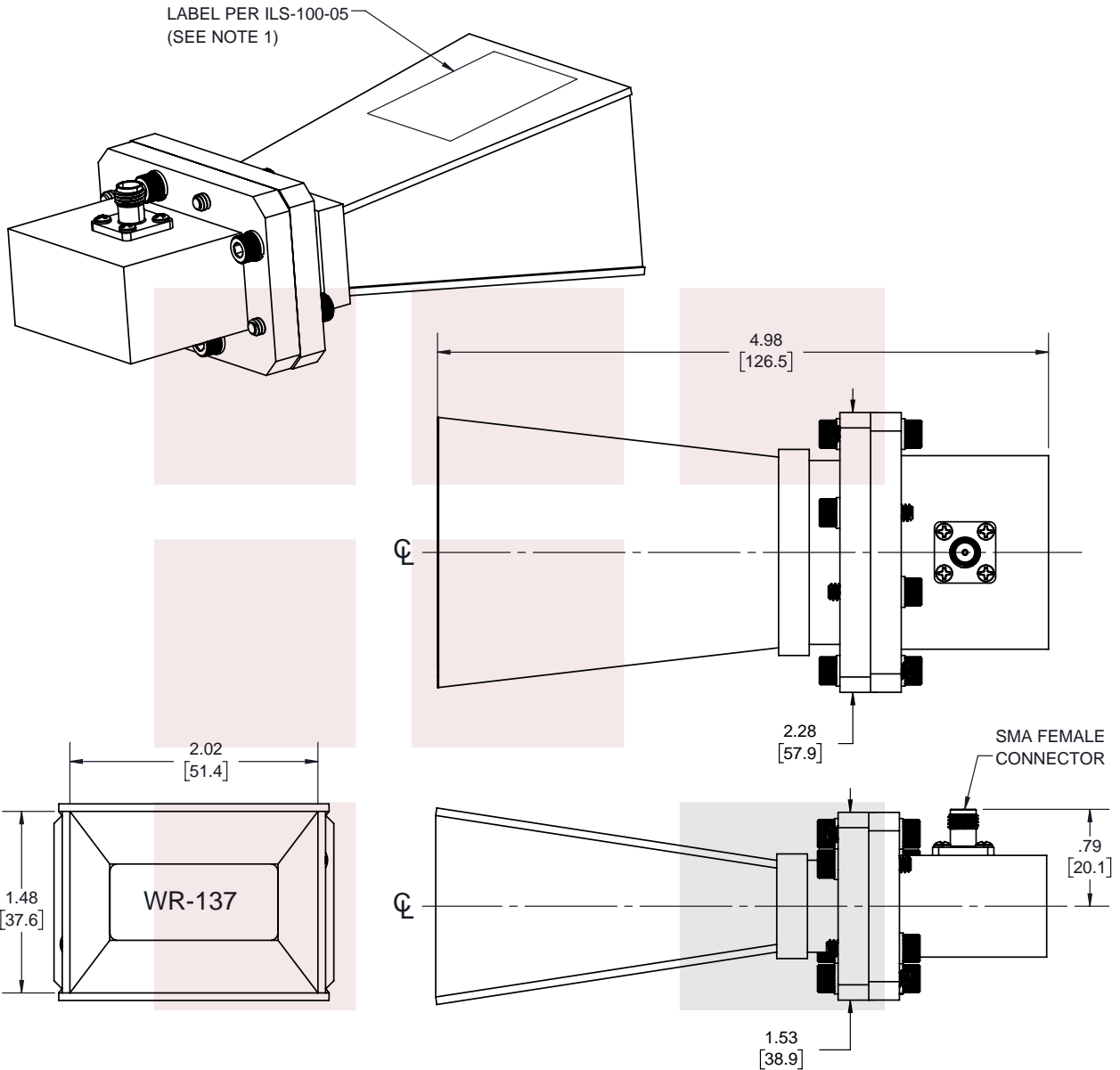
WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 10 dBi Nominal Gain, SMA Female Input Connector, ProLine from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 10 dBi Nominal Gain, SMA Female Input Connector, ProLine FM9859B/SF-10](#)

URL: <https://www.fairviewmicrowave.com/wr-137-standard-gain-horn-10-db-sma-fm9859b-sf-10-p.aspx>

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| REVISIONS | | | |
|-----------|-------------------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | PCR PE9863B-10 20210526 | 06/07/2021 | KHIETPAS |



- NOTES:
1. LABEL PER ILS-100-05 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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|---|--|--------------------|--|-------|
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| | <p>TITLE</p> <p>WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 10 dBi Nominal Gain, SMA Female Input Connector, ProLine</p> | | <p>SHEET 1 OF 1</p> | |
| <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | | | <p>SCALE N/A</p> | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY BPUCHASKI | ITEM NO. FM9859B/SF-10 | REV B |

T-Rev.D