

WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 20 dBi Nominal Gain, Type N Female Input Connector, ProLine

The Fairview Microwave FM9859B/NF-20 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 Type N waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-137, has a 20 dBi nominal gain. This WR-137 standard gain horn from Fairview Microwave has a female Type N waveguide to coax transition adapter. The 20 dBi Fairview Microwave WR-137 horn antenna operates from 5.85 GHz to 8.2 GHz. Fairview Microwave's Type N 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/NF-20, 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/NF-20 waveguide horn is US made and TAA compliant. Our WR-137 standard gain horn Proline antennas with Type N female interface can ship same day to anywhere in the world.

Configuration

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	5.85		8.2	GHz
Waveguide Standard Gain Horn				
Gain		20		dB
Waveguide to Coaxial Adapter				
Input VSWR		1.3:1		

Mechanical Specifications

Size	
Length	13.42 in 340.87 mm
Width/Diameter	6.26 in 159 mm
Height	4.57 in 116.08 mm
Weight	0.05 lbs 22.68 g

RF Connector

Type	N Female
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Waveguide Interface

Waveguide Size	WR-137
Flange Type	CMR-137F
Body Material and Plating	Aluminum



Features:

- WR-137 Rectangular Waveguide Interface
- 5.85 GHz to 8.2 GHz
- 20 dBi Nominal Gain
- Type N Female Connector

Applications:

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

Environmental Specifications

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

Plotted and Other Data

2 Dimensional OML Drawing FM9859B/NF-20
Notes:

WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 20 dBi Nominal Gain, Type N 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, 20 dBi Nominal Gain, Type N Female Input Connector, ProLine FM9859B/NF-20](#)

URL: <https://www.fairviewmicrowave.com/standard-gain-horn-0-fm9859b-nf-20-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/23/2021	KHIETPAS

LABEL PER ILS-100-03
(SEE NOTE 1)

4.57 [116.1]

WR-137

6.26 [159.0]

13.92 [353.6]

2.28 [57.9]

1.53 [38.7]

TYPE N FEMALE CONNECTOR

1.53 [38.9]

NOTES:

- LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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	TOLERANCES: CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.
TITLE WR-137 Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz, 20 dBi Nominal Gain, Type N Female Input Connector, ProLine	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
SHEET 1 OF 1 SCALE N/A		
SIZE A CAGE CODE 3FKR5 DRAWN BY BPUCHASKI ITEM NO. FM9859B/NF-20 REV A		

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