

WR-90 Waveguide Standard Gain Horn Antenna With UG-135/U Flange, 20 dBi Gain and 8.2 GHz to 12.4 GHz

The Pro-series WR-90 FM9856B-20 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 20 dBi. The Fairview Microwave 20 dBi WR-90 horn antenna operates from 8.2 GHz to 12.4 GHz. This WR-90 standard gain horn has a UG-135/U type flange. The WR-90 FM9856B-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

Waveguide standard gain horn antennas 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 Pro-series gain horns are US made and TAA compliant. Fairview Microwave's WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Pro-series WR-90 standard gain horn antenna can ship the same day to anywhere in the world.

Configuration

Design	WR-90 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
Impedance		50		Ohms
Nominal Gain		20		dB
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	10.06 in [255.52 mm]
Width/Diameter	4.94 in [125.48 mm]
Height	3.74 in [95 mm]

Waveguide Interface

Waveguide Size	WR-90
Flange Type	Square Cover
Flange Designation	UG-135/U
Body Material and Plating	Aluminum



Features:

- WR-90 Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz
- 20 dBi Nominal Gain
- UG-135/U Cover Flange

Applications:

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

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

Plotted and Other Data

Notes:

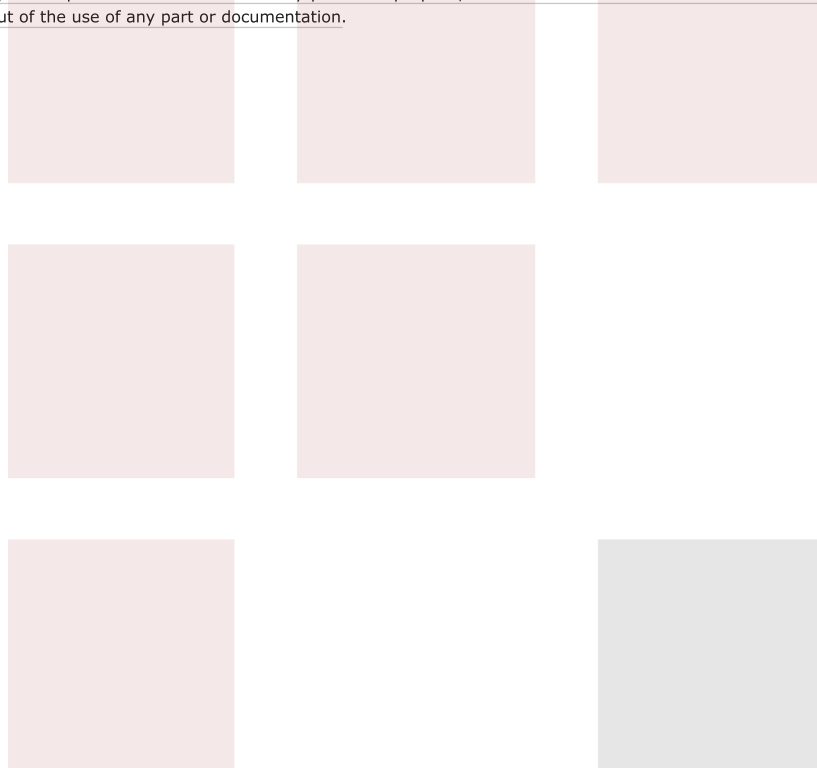
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WR-90 Waveguide Standard Gain Horn Antenna With UG-135/U Flange, 20 dBi Gain and 8.2 GHz to 12.4 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

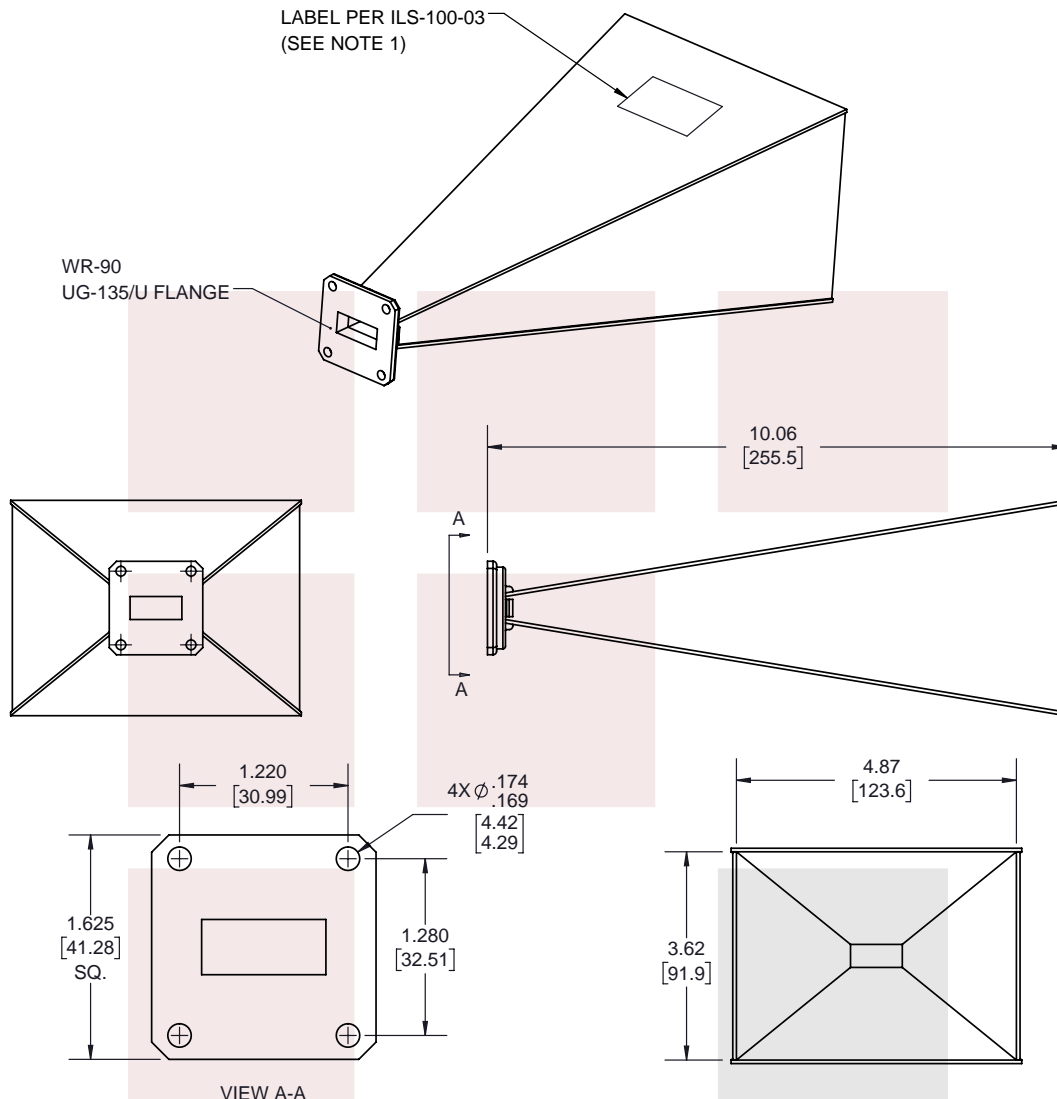
For additional information on this product, please click the following link: [WR-90 Waveguide Standard Gain Horn Antenna With UG-135/U Flange, 20 dBi Gain and 8.2 GHz to 12.4 GHz FM9856B-20](#)

URL: <https://www.fairviewmicrowave.com/wr-90-waveguide-standard-gain-horn-20-db-ug-135-fm9856b-20-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/03/2020	KHIETPAS



NOTES:

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

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TITLE

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GHz

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

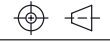
TOLERANCES:

.X = \pm .2 [5.08] FRACTIONS
.XX = \pm .02 [.51] \pm 1/32
.XXX = \pm .005 [.13] ANGLES \pm 1°

CABLE LENGTH (L) TOLERANCES:

L \leq 12 [305] = \pm 1 [25] / -0
12 [305] < L \leq 60 [1524] = \pm 2 [51] / -0
60 [1524] < L \leq 120 [3048] = \pm 4 [102] / -0
120 [3048] < L \leq 300 [7620] = \pm 6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	BPUCHASKI	FM9856B-20	A

T-Rev.D