

WR-159 Waveguide Standard Gain Horn Antenna With UG-1731/U Flange, 15 dBi Gain and 4.9 GHz to 7.05 GHz

The Pro-series WR-159 FM9860B-15 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 15 dBi. The Fairview Microwave 15 dBi WR-159 horn antenna operates from 4.9 GHz to 7.05 GHz. This WR-159 standard gain horn has a UG-1731/U type flange. The WR-159 FM9860B-15 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-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Pro-series WR-159 standard gain horn antenna can ship the same day to anywhere in the world.

Configuration

Design	WR-159 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	4.9		7.05	GHz
Impedance		50		Ohms
Nominal Gain		15		dB
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	8.98 in [228.09 mm]
Width/Diameter	4.64 in [117.86 mm]
Height	3.27 in [83.06 mm]

Waveguide Interface

Waveguide Size	WR-159
Flange Type	Square Cover
Flange Designation	UG-1731/U
Body Material and Plating	Aluminum

z

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

Plotted and Other Data

Notes:



Features:

- WR-159 Rectangular Waveguide Interface
- 4.9 GHz to 7.05 GHz
- 15 dBi Nominal Gain
- UG-1731/U Cover Flange

Applications:

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

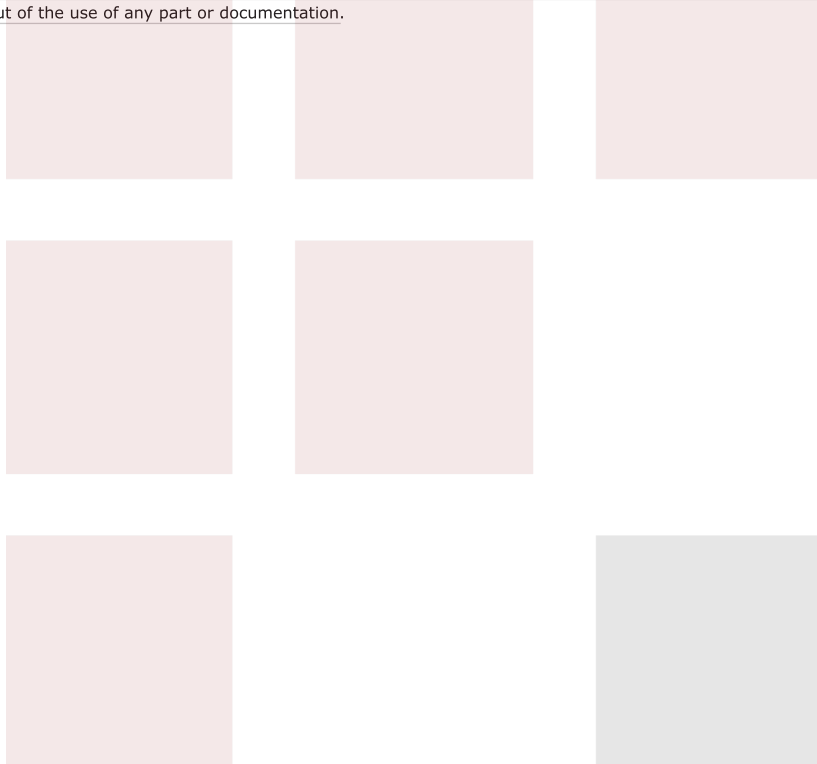
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WR-159 Waveguide Standard Gain Horn Antenna With UG-1731/U Flange, 15 dBi Gain and 4.9 GHz to 7.05 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-159 Waveguide Standard Gain Horn Antenna With UG-1731/U Flange, 15 dBi Gain and 4.9 GHz to 7.05 GHz FM9860B-15](#)

URL: <https://www.fairviewmicrowave.com/wr-159-waveguide-standard-gain-horn-15-db-ug-1731-fm9860b-15-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE9863B-10 20210526	06/09/2021	KHIETPAS

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

WR-159
CMR-159 FLANGE

NOTES:

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

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ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

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

TOLERANCES: **CABLE LENGTH (L) TOLERANCES:**

$.X = \pm .2$ [5.08]	FRACTIONS	$L \leq 12$ [305] = +1 [25] / -0
$.XX = \pm .02$ [.51]	$\pm 1/32$	$12 < L \leq 60$ [1524] = +2 [51] / -0
$.XXX = \pm .005$ [.13]	ANGLES $\pm 1^\circ$	$60 < L \leq 120$ [3048] = +4 [102] / -0
		$120 < L \leq 300$ [7620] = +6 [152] / -0
		$300 < L \leq 7620$ = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

<p>Fairview Microwave an INFINIT[®] brand</p> <p>TITLE</p> <p>WR-159 Waveguide Standard Gain Horn Antenna With UG-1731/U Flange, 15 dBi Gain and 4.9 GHz to 7.05 GHz</p>	<p style="text-align: center;">THIRD-ANGLE PROJECTION</p> <p style="font-size: x-small; text-align: center;">THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p style="text-align: center;">SHEET 1 OF 1</p> <p style="text-align: center;">SCALE N/A</p>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">SIZE</td> <td style="width: 20%;">CAGE CODE</td> <td style="width: 20%;">DRAWN BY</td> <td style="width: 20%;">ITEM NO.</td> <td style="width: 25%;">REV</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">3FKR5</td> <td style="text-align: center;">BPUCHASKI</td> <td style="text-align: center;">FM9860B-15</td> <td style="text-align: center;">B</td> </tr> </table>	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	A	3FKR5	BPUCHASKI	FM9860B-15	B	
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T-Rev.D