

SH190-10 DATA SHEET

WR-90 Standard Waveguide Horn With UG-135/U Square Cover Flange and 10 dBi Nominal Gain Operating From 8.2 GHz to 12.4 GHz Frequency Range

Fairview Microwave's SH190-10 WR-90 waveguide standard gain horn antenna operating from 8.2 GHz to 12.4 GHz with a nominal 10 dBi gain is part of our full line of RF components available for same-day shipping. This pyramidal horn antenna has a lightweight anodized aluminum body and a precision tolerance UG-135/U square cover flange. The SH190-10 WR-90 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 48.5 degrees of half power beam width.

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 across a broad bandwidth. Fairview Microwave's WR-90 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

Configuration

Design WR-90 Standard Gain Horn

Pattern Directional

Polarization Linear

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width	า	47.4		Deg
Vertical 3dB Beam Width		48.5		Deg

Electrical Specification Notes:

3 dB beam width is calculated by computer simulation.

Mechanical Specifications

Size

 Length
 2 in [50.8 mm]

 Width/Diameter
 1.63 in [41.4 mm]

 Height
 1.63 in [41.4 mm]

 Weight
 0.104 lbs [47.17 g]

Waveguide Interface

Waveguide Size WR-90
Flange Type Square Cover
Flange Designation UG-135/U

Body Material and Plating Anodized Aluminum

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz
- 10 dBi Nominal Gain
- UG-135/U Square Cover Flange

Applications:

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

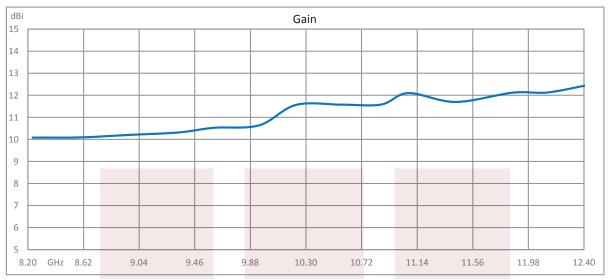
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Typical Performance Data



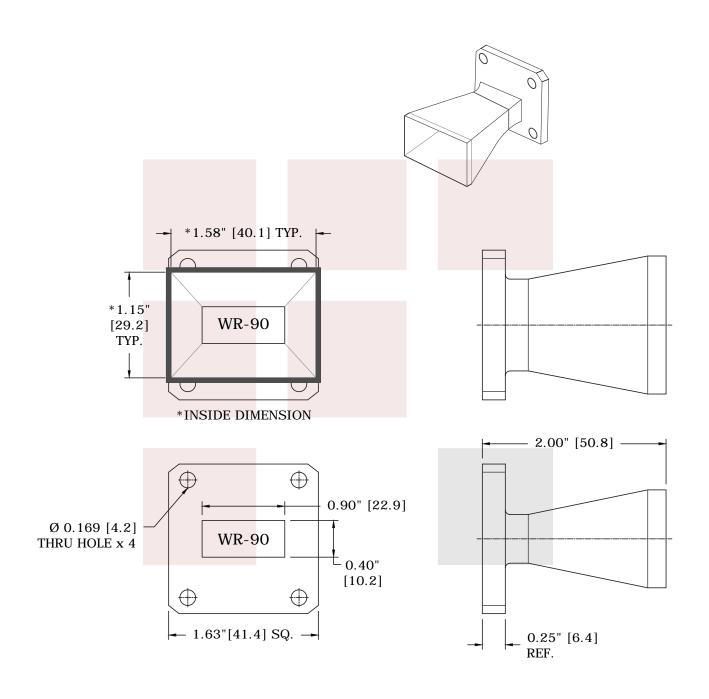
WR-90 Standard Waveguide Horn With UG-135/U Square Cover Flange and 10 dBi Nominal Gain Operating From 8.2 GHz to 12.4 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-90 Standard Waveguide Horn With UG-135/U Square Cover Flange and 10 dBi Nominal Gain Operating From 8.2 GHz to 12.4 GHz Frequency Range SH190-10

URL: https://www.fairviewmicrowave.com/wr-90-standard-gain-horn-antenna-0-db-sh190-10-p.aspx

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WR-90 Standard Waveguide Horn With UG-135/U Square Cover Flange and 10 dBi Nominal Gain Operating From 8.2 GHz to 12.4 GHz Frequency	DWG NO SH190-10			CAGE CODE 3FKR5			
	CAD FILE 011415	SHEET	SCALE	N/A	SIZE A	5568	