

FMWAN042-10SF DATA SHEET

WR-42 Standard Gain Horn with 10 dBi gain, SMA Female connector

The FMWAN042-10SF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-42 to SMA Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FMWAN042-10SF standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Fairview Microwave's SMA Female to WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN042-10SF are used in a wide variety of applications due to the high-power handling capability, low loss, high directivity, and near constant electrical performance. Our WR-42 waveguide antennas with SMA Female interface is part of over 40,000 RF, microwave and millimeter wave components from Fairview Microwave available worldwide and Ship same day.

Configuration Desian WR-42 Standard Gain Horn Coaxial Interface **SMA** Female **Electrical Specifications** Description Units Min Тур Max Frequency Range 18 26.5 GHz Waveguide Standard Gain Horn Gain 10 dBi Horizontal 3dB Beam Width 52.1 Degrees Vertical 3dB Beam Width 51.6 Degrees Waveguide to Coaxial Adapter Input VSWR 1.3:1 Mechanical Specifications Size Lenath 1.644 in 41.76 mm Width/Diameter 0.882 in 22.4 mm 0.882 in 22.4 mm Height Weight 0.0329 lbs 14.92 g **RF Connector SMA** Female Туре Waveguide Interface Waveguide Size WR-42 **Environmental Specifications**

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector

Applications:

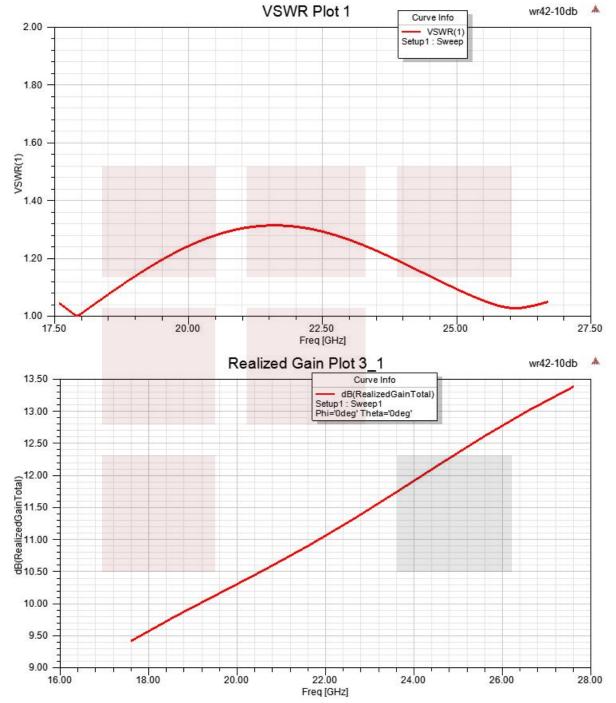
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

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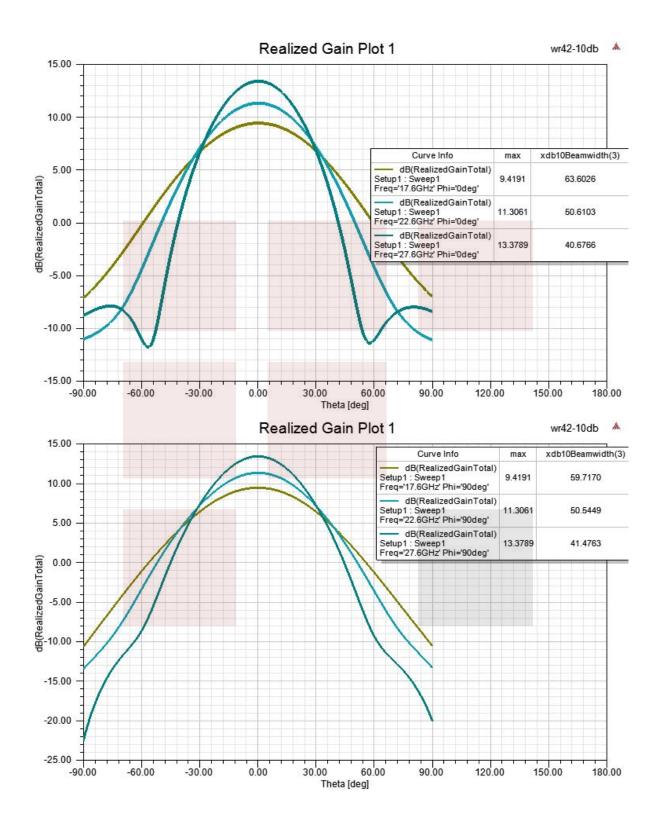
Typical Performance Data



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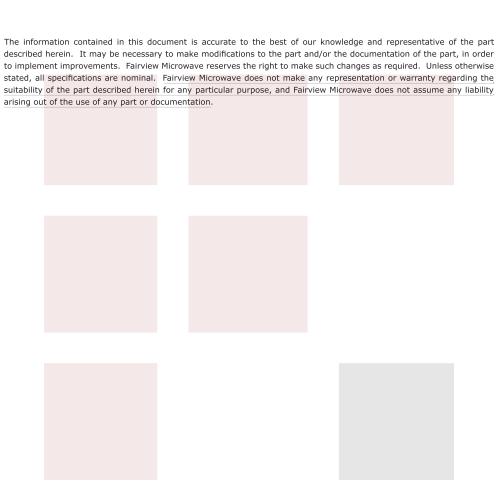


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WR-42 Standard Gain Horn with 10 dBi gain, SMA Female connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-42 Standard Gain Horn with 10 dBi gain, SMA Female connector FMWAN042-10SF

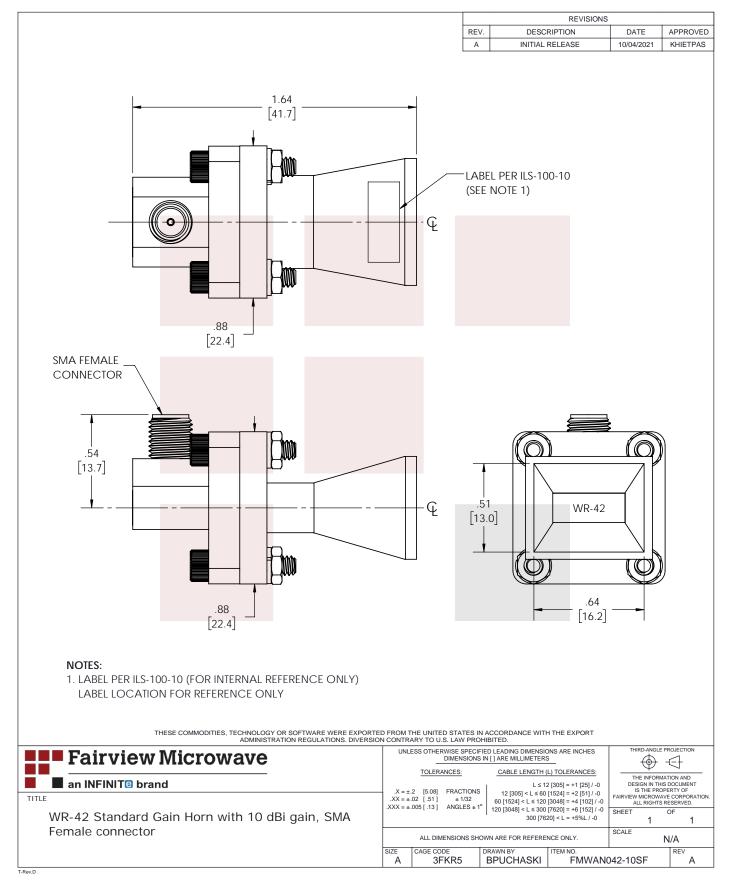
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