

WR-34 Standard Gain Horn with 20 dBi gain, 2.92mm Female Connector, Integrated Cage-Style Mount



**FM1WAN034-20KF**

**Features**

- 22 GHz to 33 GHz
- WR-34 Waveguide Band
- 20 dBi Nominal Gain
- 2.92mm Female Connector
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

**Applications**

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

**Description**

The FM1WAN034-20KF standard gain horn antenna with integrated cage-style mount (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. This standard gain horn is mated with a WR-34 to 2.92mm Female waveguide to coaxial adapter and operates from 22 GHz to 33 GHz.

Our FM1WAN034-20KF standard gain horn antenna with integrated cage-style mount has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.50 and 17.30 degrees respectively. Fairview Microwave's 2.92mm Female to WR-34 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FM1WAN034-20KF 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-34 waveguide antennas with 2.92mm Female interface is part of over 40,000 RF, microwave and millimeter wave components from Fairview Microwave available worldwide and ship same day.

**Configuration**

Design	WR-34
Polarization	Linear
Coaxial Interface	2.92mm Female

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	22		33	GHz
Gain		20		
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
<b>Waveguide to Coaxial Adapter</b>				
VSWR		1.3:1		
Input Power (Peak)			20	Watts

**Mechanical Specifications**

<b>Size</b>	
Length	6.811 in [173 mm]
Width	3.15 in [80.01 mm]

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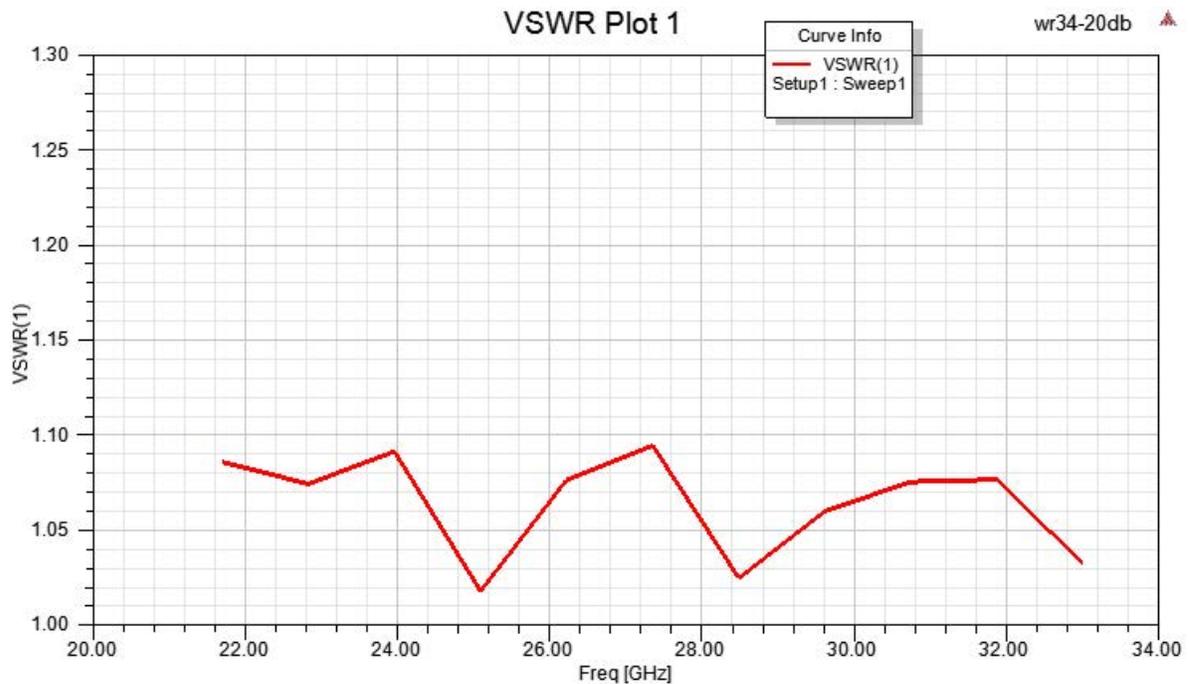
Height	2.756 in [70 mm]
Weight	0.9025 lbs [409.37 g]
<b>RF Connector</b>	
Type	2.92mm Female
Body Material and Plating	Stainless Steel
<b>Waveguide Interface</b>	
Waveguide Size	WR-34
Flange Type	Square Cover
Flange Designation	UG-1530/U
Body Material and Plating	Aluminum

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

**Plotted and Other Data**

Notes:

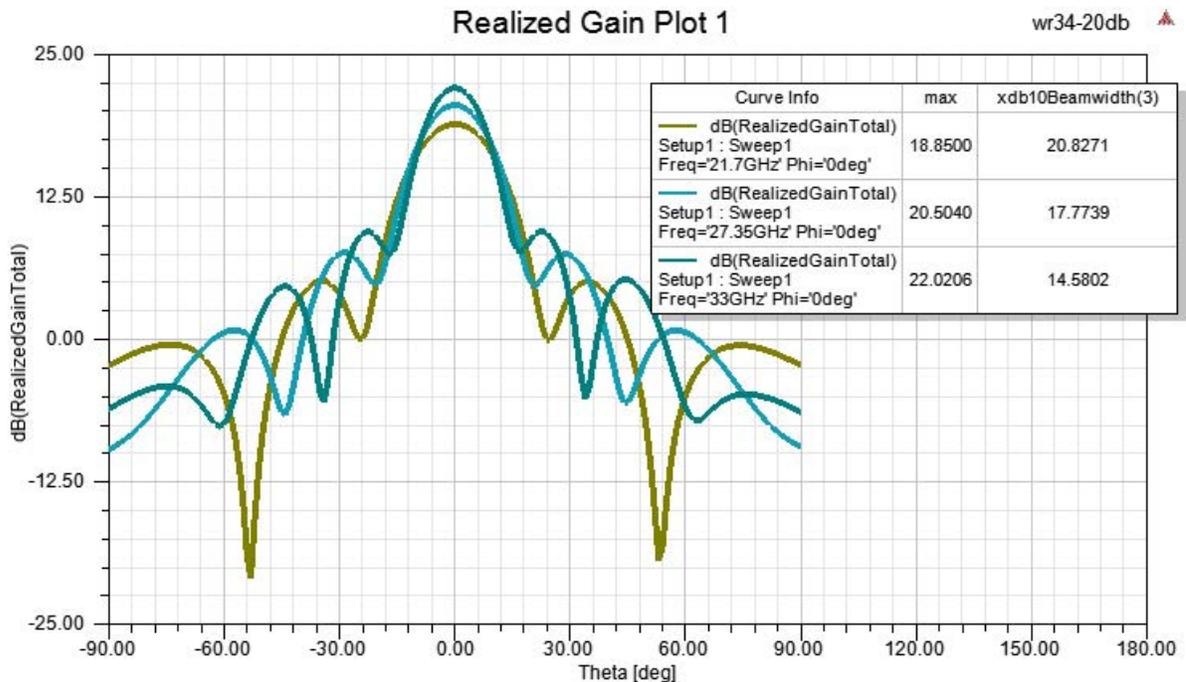
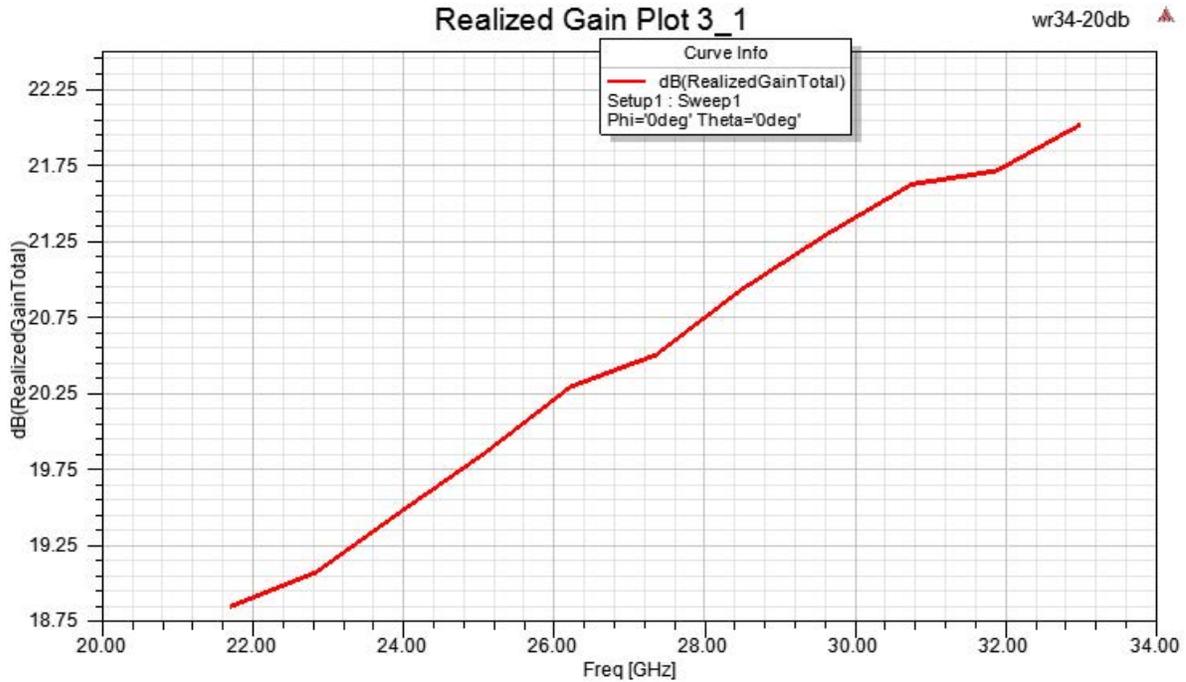
**Typical Performance Data**



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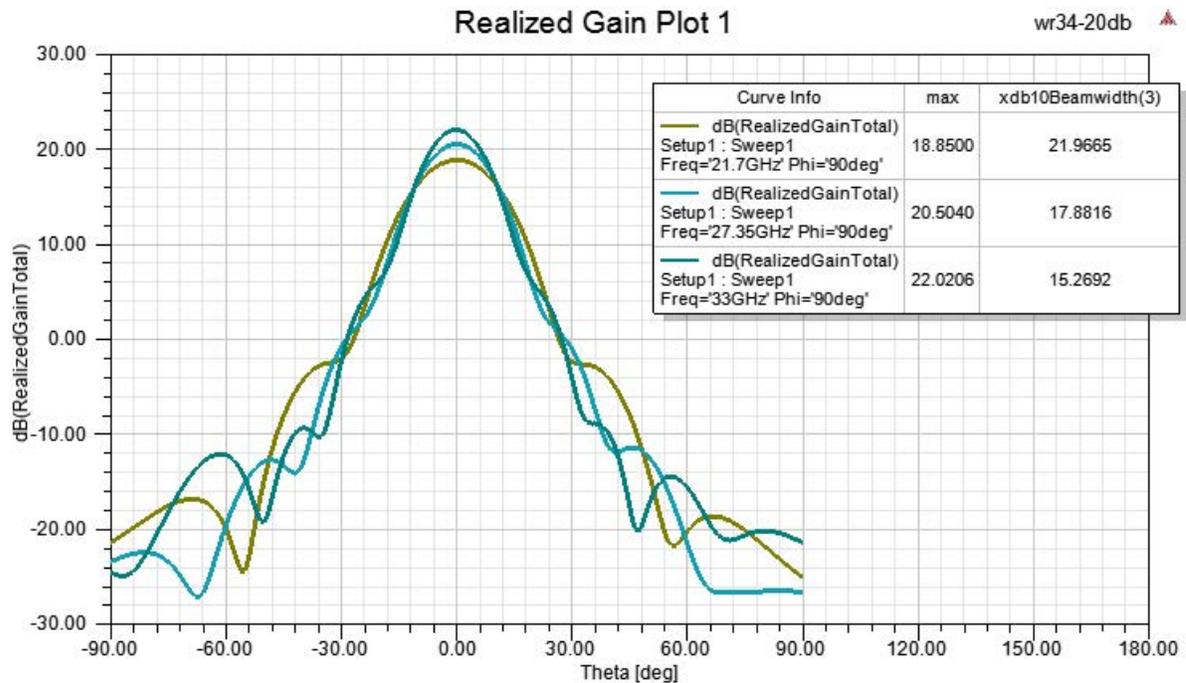
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WR-34 Standard Gain Horn with 20 dBi gain, 2.92mm Female Connector, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-34 Standard Gain Horn with 20 dBi gain, 2.92mm Female Connector, Integrated Cage-Style Mount FM1WAN034-20KF](#)

URL: <https://www.fairviewmicrowave.com/wr-34-standard-gain-horn-20-db-2.92mm-fm1wan034-20kf-p.aspx>

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# FM1WAN034-20KF CAD Drawing

WR-34 Standard Gain Horn with 20 dBi gain, 2.92mm Female Connector, Integrated Cage-Style Mount

