



FM2WAN042-15ELKF

Features

- 18 GHz to 26.5 GHz
- · WR-42 Waveguide Band
- · 15 dBi Nominal Gain

Applications

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

- 2.92mm Female End Launch Connector
- Pre-Installed L Mount
- Integrates with Positioning Systems
- · Radome Testing
- · Automotive Antenna Test Solutions
- Radar Cross Section
- · Satellite Antenna Testing

Description

The FM2WAN042-15ELKF standard gain horn antenna with pre-installed L mount (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 2.92mm female end launch waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FM2WAN042-15ELKF standard gain horn antenna with pre-installed L mount has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 dB respectively. Fairview Microwave's 2.92mm female end launch 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 FM2WAN042-15ELKF 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 2.92mm female end launch interface is part of over 40,000 RF, microwave and millimeter wave components from Fairview Microwave available worldwide and ship same day.

Configuration

Design Coaxial Interface WR-42

2.92mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Gain		15		
Horizontal Half Power Beam Width		31	-	Degrees
Vertical Half Power Beam Width		32		
Waveguide to Coaxial Adapter				
VSWR			1.3:1	

Mechanical Specifications

Size	
Length	7.372 in [187.25 mm]
Width	5.978 in [151.84 mm]
Height	4.092 in [103.94 mm]
Weight	0.7595 lbs [344.5 g]





FM2WAN042-15ELKF

RF Connector

Type 2.92mm Female Specification End Launch

Waveguide Interface

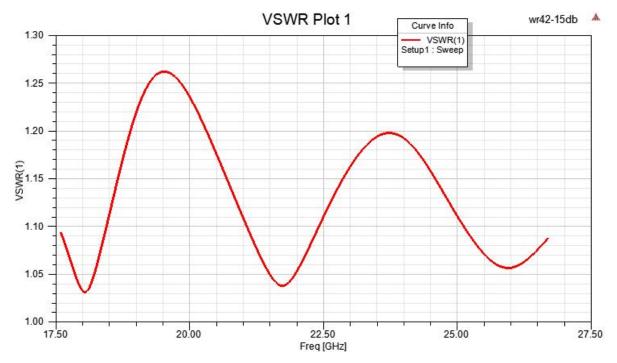
Waveguide Size WR-42

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

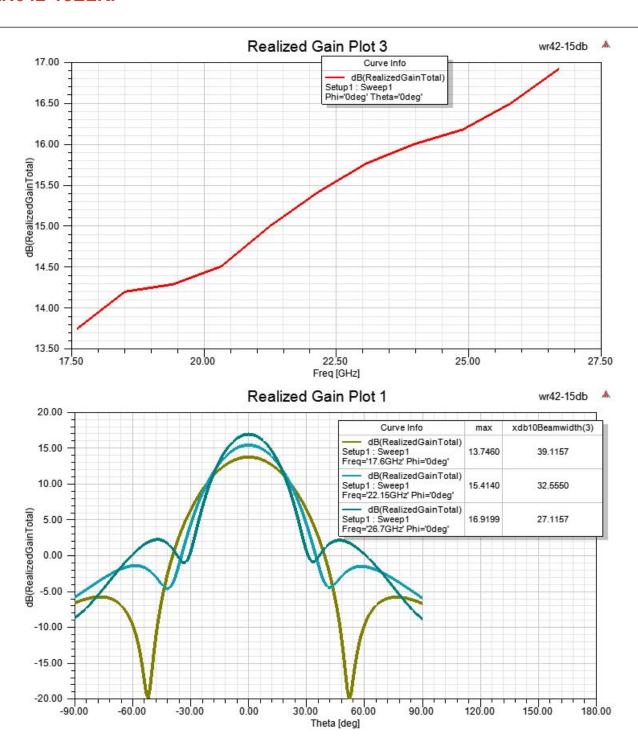
Typical Performance Data







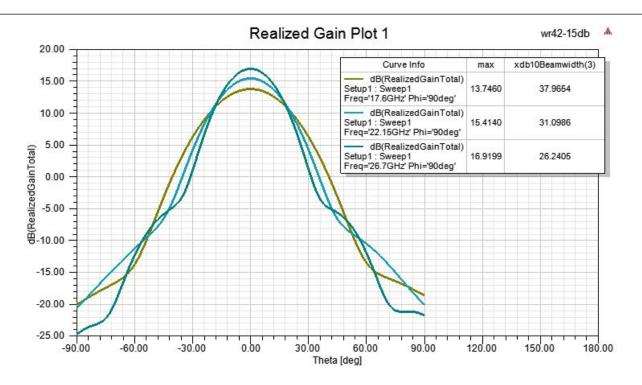
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WR-42 Standard Gain Horn with 15 dBi gain, End Launch 2.92mm Female connector, with Pre-Installed L Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 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-42 Standard Gain Horn with 15 dBi gain, End Launch 2.92mm Female connector, with Pre-Installed L Mount FM2WAN042-15ELKF

URL: https://www.fairviewmicrowave.com/wr-42-standard-gain-horn-15-dbi-2.92mm-fm2wan042-15elkf-p.aspx

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FM2WAN042-15ELKF CAD Drawing

WR-42 Standard Gain Horn with 15 dBi gain, End Launch 2.92mm Female connector, with Pre-Installed L Mount

