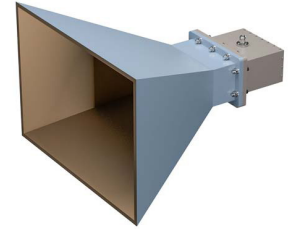


WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with N Type Female



FMWAN650-15NF

Features

- 1130 MHz to 1730 MHz
- Linearly Polarized
- 15 dBi Nominal Gain
- WR-650 with Type N Female connector
- Powder Coated Aluminum

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing

Description

The FMWAN650-15NF standard horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. This WR-650 waveguide horn features an N Female Coax Connector and operates from 1130 to 1730 MHz.

Our FMWAN650-15NF standard gain horn antenna has a nominal gain of 15 dBi with a typical input VSWR of 1.5:1. Fairview Microwave's waveguide horns are available in 10, 15, and 20 dBi models with varying frequency ranges to suit the application needs.

Waveguide antennas, such as the FMWAN650-15NF 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-650 waveguide antennas with are part of over 40,000 RF, microwave, and millimeter wave components from Fairview Microwave available worldwide and ship same day.

Configuration

| | |
|-------------------|-------------|
| Design | WR-650 |
| Pattern | Directional |
| Polarization | Linear |
| Coaxial Interface | N Female |

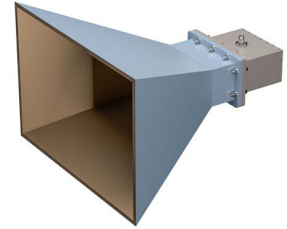
Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------------|---------|---------|---------|---------|
| Frequency Range | 1.13 | | 1.73 | GHz |
| Gain | | 15 | | |
| Horizontal Half Power Beam Width | | 30 | | Degrees |
| Vertical Half Power Beam Width | | 30 | | Degrees |
| Waveguide to Coaxial Adapter | | | | |
| VSWR | | | 1.25:1 | |

Mechanical Specifications

| | |
|-------------|----------------------|
| Size | |
| Length | 22.9 in [581.66 mm] |
| Width | 21.7 in [551.18 mm] |
| Height | 15 in [381 mm] |
| Weight | 13.102 lbs [5.94 kg] |

WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with N Type Female



FMWAN650-15NF

| | |
|----------------------------|----------|
| RF Connector | |
| Type | N Female |
| Waveguide Interface | |
| Waveguide Size | WR-650 |

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

Plotted and Other Data

Notes:

Typical Performance Data

WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with N Type Female 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.

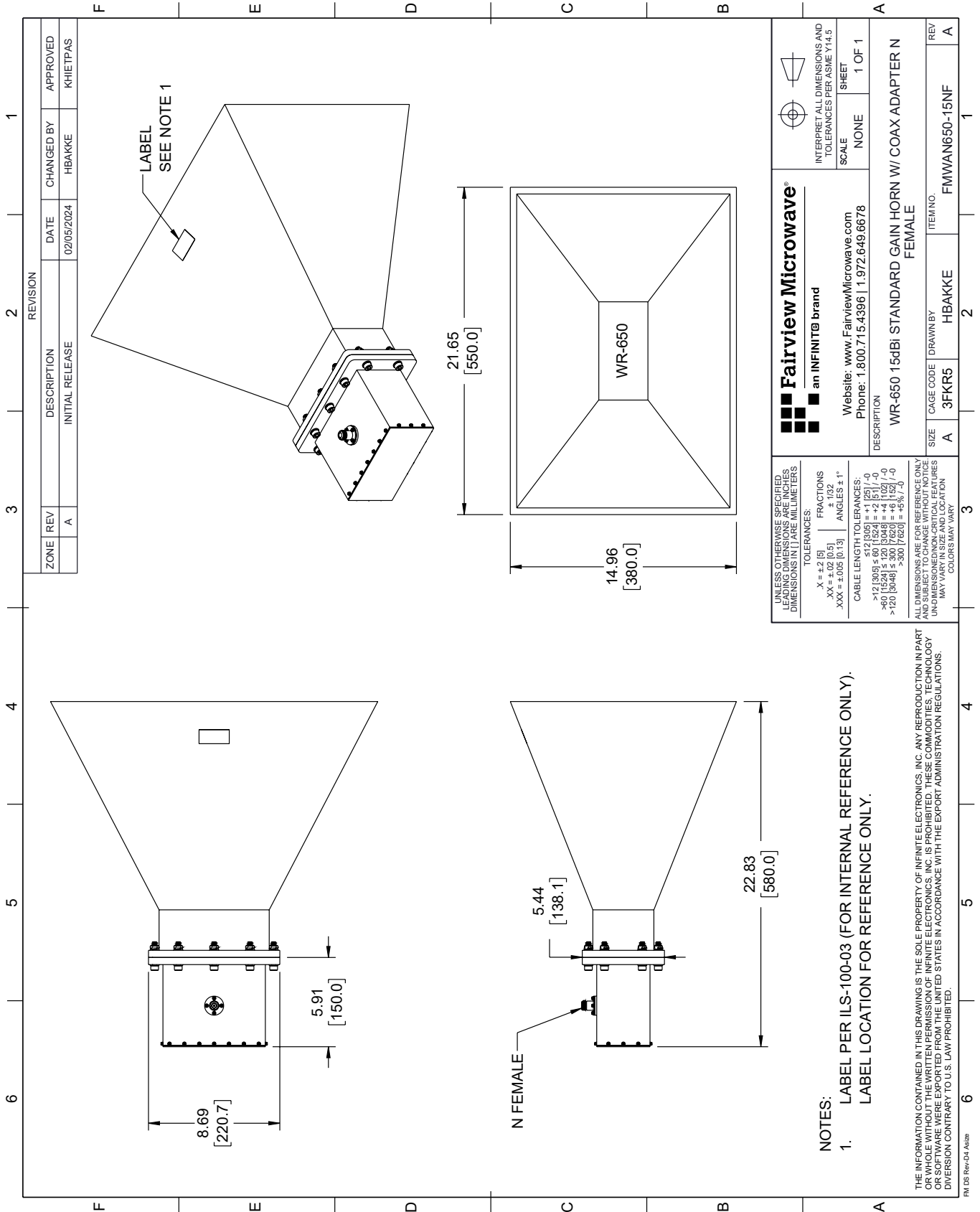
For additional information on this product, please click the following link: [WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with N Type Female FMWAN650-15NF](#)

URL: <https://www.fairviewmicrowave.com/wr-650-waveguide-standard-gain-horn-antenna-operating-from-1.13-ghz-to-1.73-ghz-15-dbi-gain-with-n-type-female-fmwan650-15nf-p.aspx>

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

FMWAN650-15NF CAD Drawing

WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with N Type Female



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 02/05/2024 | HBAKKE | KHIEPPAS |

Fairview Microwave®
an INFINIT® brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

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

TOLERANCES:
 .X = ±.2 (5)
 .XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 (305) ≤ 60 (1524) = ±.1 (25) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (102) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (15.2) / -0
 >300 (7620) = ±.6 (15.2) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: WR-650 15dBi STANDARD GAIN HORN W/ COAX ADAPTER N FEMALE

| | | | |
|------|-----------|----------|---------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 3FKR5 | HBAKKE | FMWAN650-15NF |

NOTES:

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

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PM DS Rev-D4 Alt2