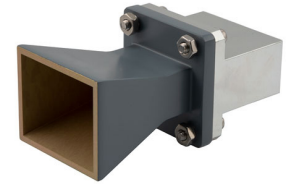


WR-112 Standard Gain Horn with 10 dBi gain,
End Launch SMA Female connector



FMWAN112-10ELSF

Features

- 7.05 GHz to 10 GHz
- WR-112 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female End Launch Connector

Applications

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

Description

The FMWAN112-10ELSF 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-112 to SMA Female End Launch waveguide to coaxial adapter and operates from 7.05 GHz to 10 GHz.

Our FMWAN112-10ELSF 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 End Launch to WR-112 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN112-10ELSF 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-112 waveguide antennas with SMA 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 | WR-112 |
| Coaxial Interface | SMA Female |

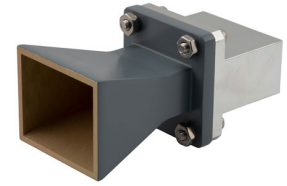
Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------------|---------|---------|---------|---------|
| Frequency Range | 7.05 | | 10 | GHz |
| Gain | | 10 | | dBi |
| Horizontal Half Power Beam Width | | 52.1 | | Degrees |
| Vertical Half Power Beam Width | | 51.6 | | Degrees |
| Waveguide to Coaxial Adapter | | | | |
| VSWR | | | 1.4:1 | |

Mechanical Specifications

| | |
|-------------|-----------------------|
| Size | |
| Length | 4.304 in [109.32 mm] |
| Width | 1.705 in [43.31 mm] |
| Height | 1.369 in [34.77 mm] |
| Weight | 0.5095 lbs [231.11 g] |

WR-112 Standard Gain Horn with 10 dBi gain,
End Launch SMA Female connector



FMWAN112-10ELSF

RF Connector

Type SMA Female
Specification End Launch

Waveguide Interface

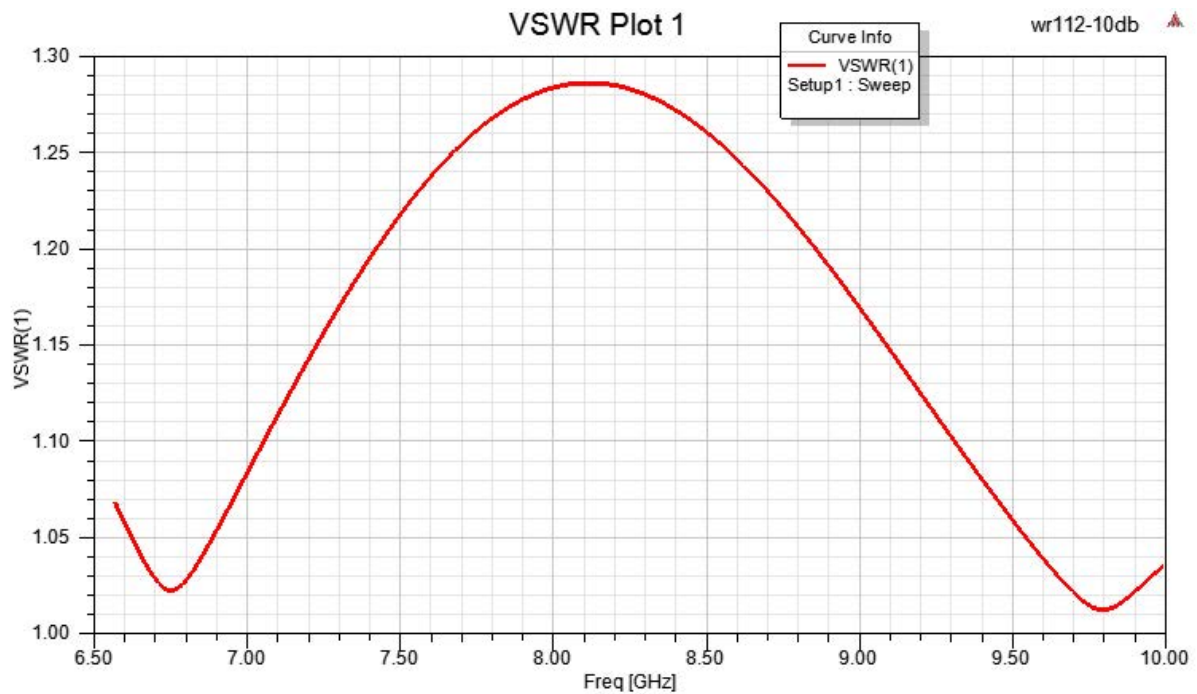
Waveguide Size WR-112

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

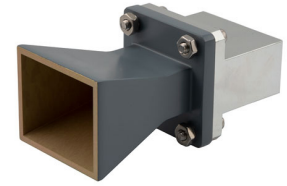
Plotted and Other Data

Notes:

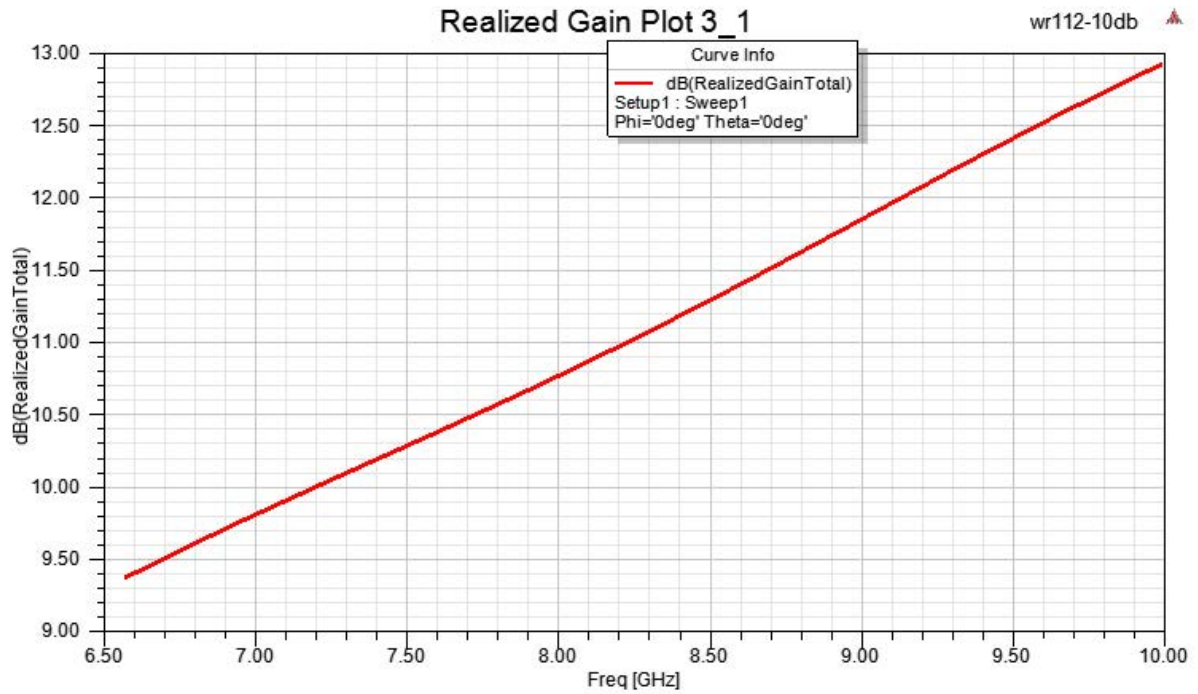
Typical Performance Data



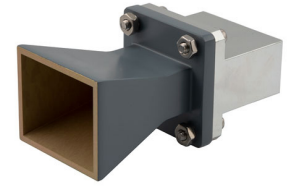
WR-112 Standard Gain Horn with 10 dBi gain,
End Launch SMA Female connector



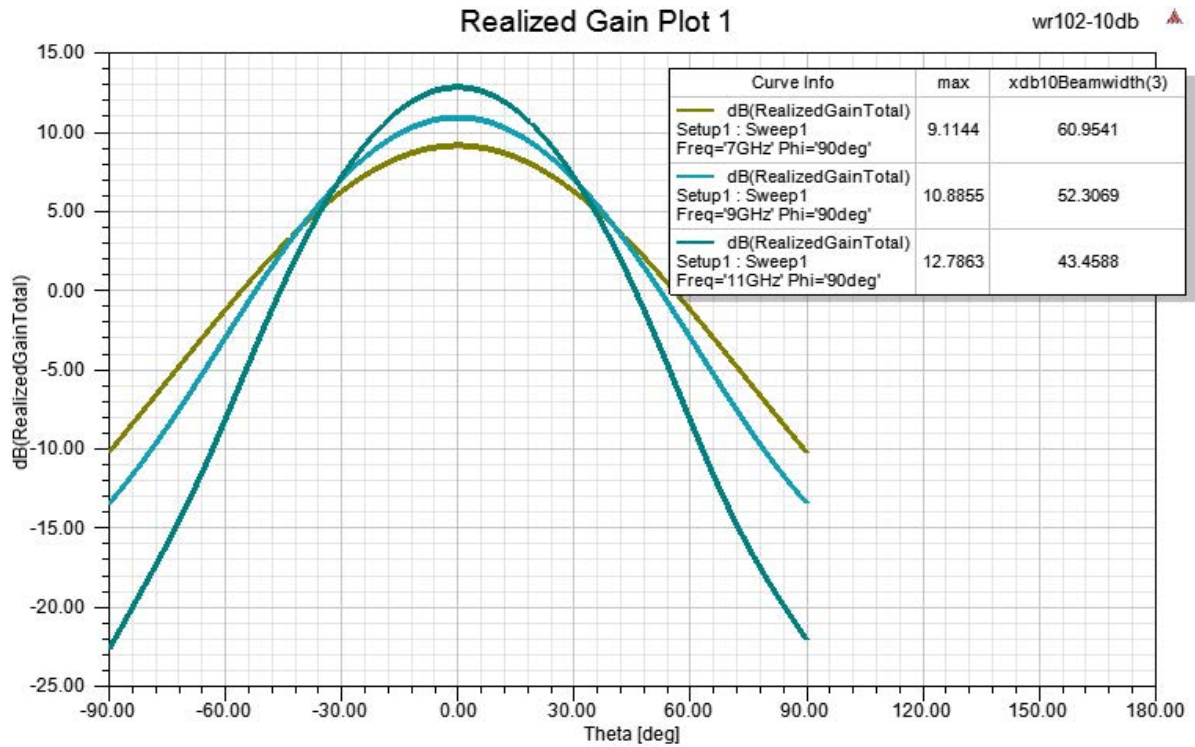
FMWAN112-10ELSF



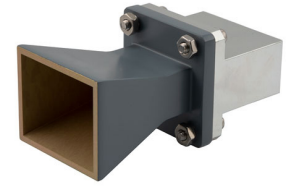
WR-112 Standard Gain Horn with 10 dBi gain,
End Launch SMA Female connector



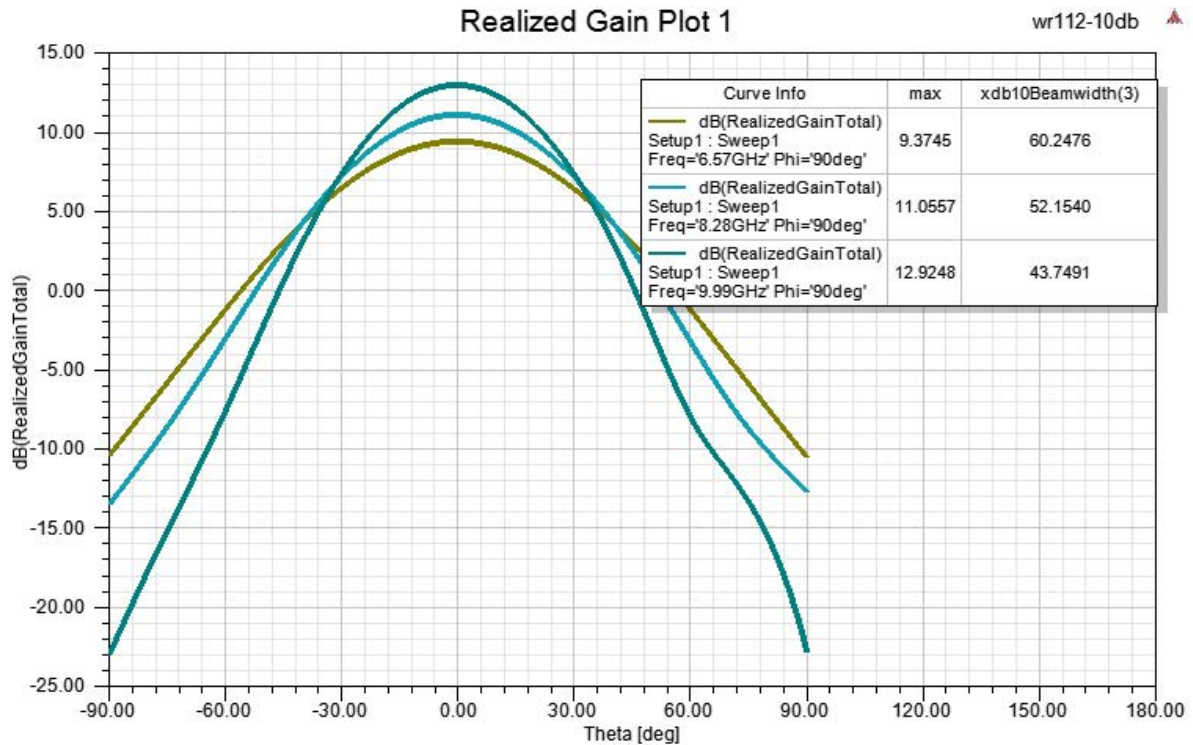
FMWAN112-10ELSF



WR-112 Standard Gain Horn with 10 dBi gain,
End Launch SMA Female connector



FMWAN112-10ELSF



WR-112 Standard Gain Horn with 10 dBi gain, End Launch 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.

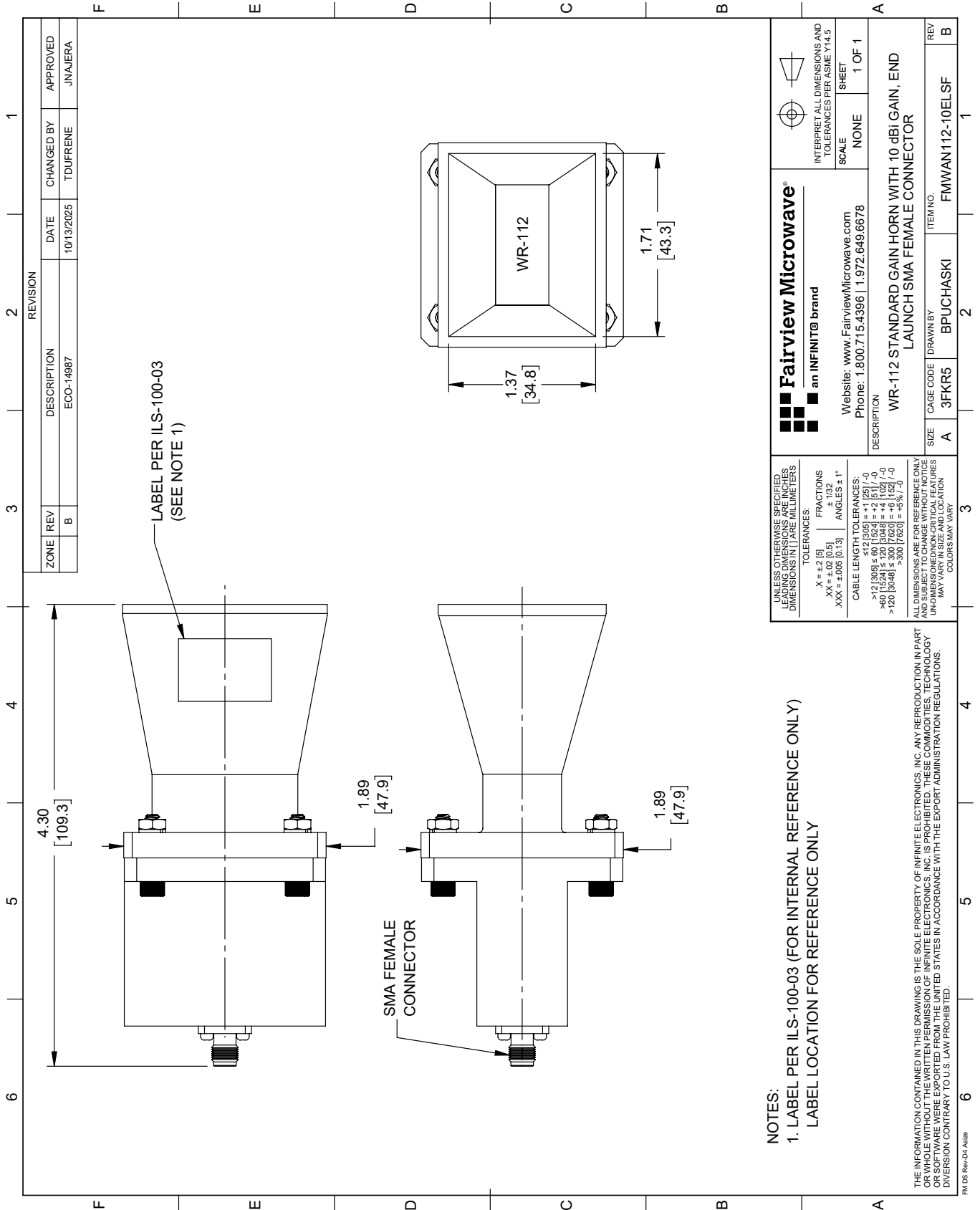
For additional information on this product, please click the following link: [WR-112 Standard Gain Horn with 10 dBi gain, End Launch SMA Female connector FMWAN112-10ELSF](#)

URL: <https://www.fairviewmicrowave.com/wr-112-standard-gain-horn-10-dbi-sma-fmwan112-10elsf-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.

FMWAN112-10ELSF CAD Drawing

WR-112 Standard Gain Horn with 10 dBi gain, End Launch SMA Female connector



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

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FM DS Rev-D4 Add

| ZONE | | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|---|-----|-------------|------------|------------|----------|
| | B | | ECO-14987 | 10/13/2025 | TDFRENE | JNAJERA |

| REVISION | |
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| <p>Fairview Microwave® an INFINITIB® brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p> | | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE SHEET: 1 OF 1</p> |
| <p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. LEADING DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN [] ARE MILLIMETERS.</p> <p>TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]</p> <p>FRACTIONS: ± 1/32 ANGLES: ± 1°</p> <p>CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.1 [25] / -0 >300 [7620] = ±.5 [12.7] / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p> | | <p>DESCRIPTION: WR-112 STANDARD GAIN HORN WITH 10 dBI GAIN, END LAUNCH SMA FEMALE CONNECTOR</p> <p>ITEM NO.: FMWAN112-10ELSF</p> |
| <p>SIZE: A</p> <p>CAGE CODE: 3FKR5</p> | <p>DRAWN BY: BPUCHASKI</p> | <p>REV: B</p> |