

WR-112 Square Type Flange to End Launch N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz

The FMWCA9870 is a waveguide to coaxial adapter with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size coupled with a precision tolerance Square Type flange. The FMWCA9870 is constructed of aluminum to ensure durability and repeatable RF performance. The package is REACH and RoHS compliant.

Configuration

| | |
|----------------|-------------|
| Waveguide Size | WR-112 |
| Flange | Square Type |
| RF Connector | N Female |
| Impedance | 50 Ohms |
| Body Geometry | End Launch |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|------|-----|-------|-------|
| Frequency Range | 7.05 | | 10 | GHz |
| VSWR | | | 1.3:1 | |

Mechanical Specifications

Size

| | |
|--------|---------------------|
| Length | 2.24 in [56.9 mm] |
| Width | 1.875 in [47.63 mm] |
| Height | 1.875 in [47.63 mm] |
| Weight | 0.3 lbs [136.08 g] |

RF Connector

| | |
|---------------------------|-----------------|
| Connector Type | N Female |
| Body Material and Plating | Stainless Steel |

Waveguide Interface

| | |
|---------------------------|-------------|
| Waveguide Type | WR-112 |
| Flange Type | Square Type |
| Body Material and Plating | Aluminum |

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise



Features:

- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Square Type Flange
- N Female RF Interface
- End Launch

Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

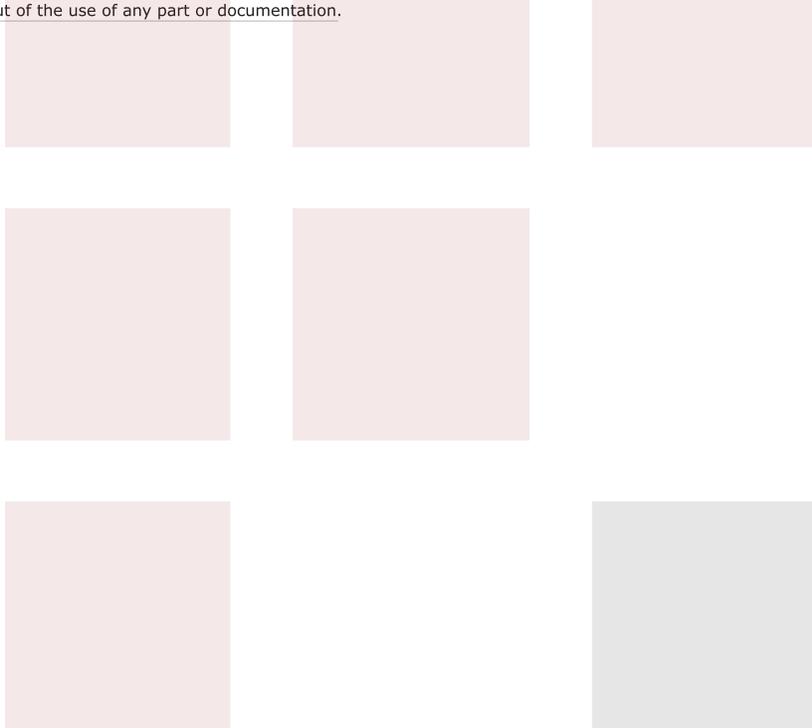
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WR-112 Square Type Flange to End Launch N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

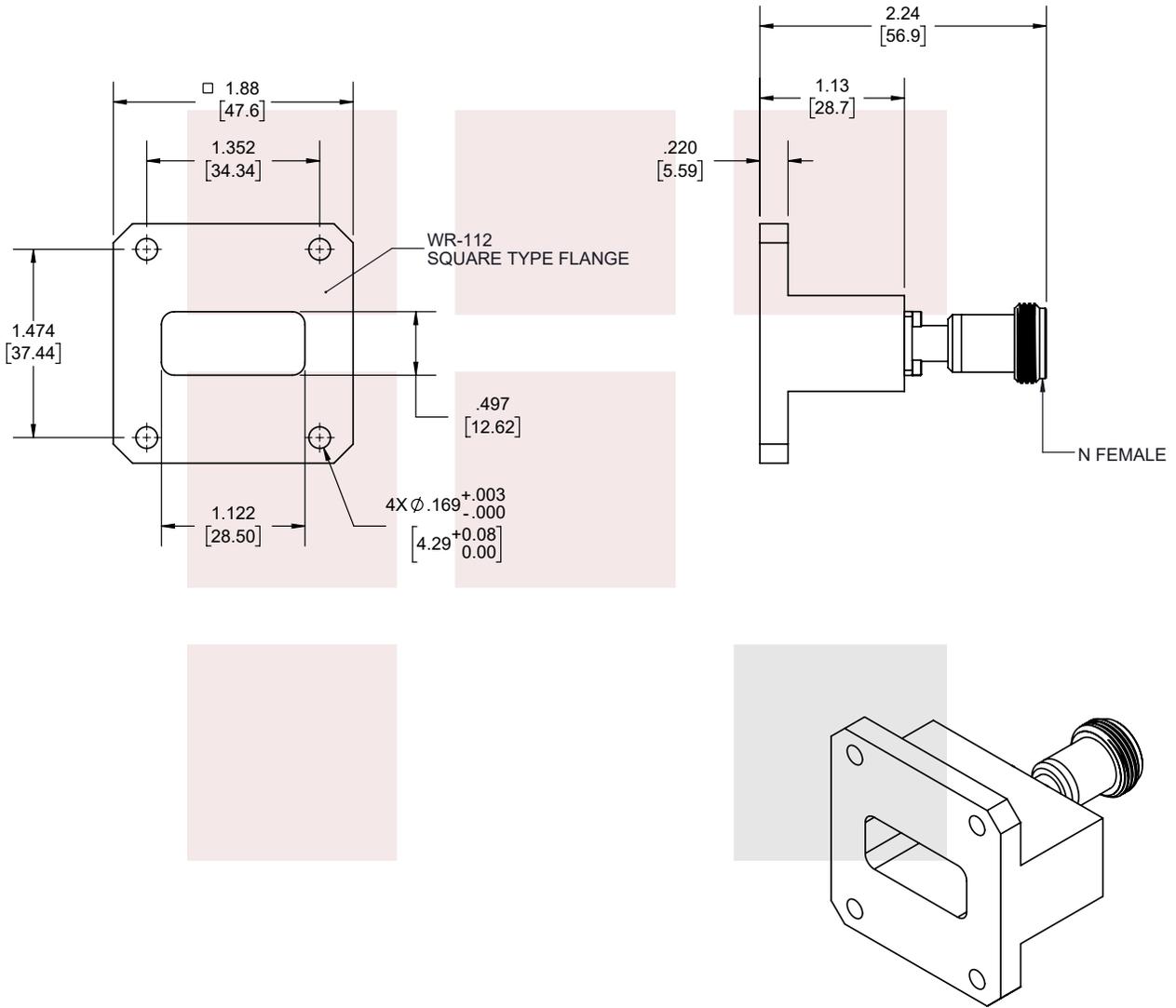
For additional information on this product, please click the following link: [WR-112 Square Type Flange to End Launch N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz FMWCA9870](#)

URL: <https://www.fairviewmicrowave.com/wr112-type-n-female-end-launch-waveguide-coax-adapter-square-fmw-ca9870-p.aspx>

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| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 3/17/2022 | S. PONG |



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

| | | | | |
|-----------|--------------------|--------------------|-----------------------|----------|
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMWCA9870 | REV A |
|-----------|--------------------|--------------------|-----------------------|----------|

T-Rev.D