

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

The FMWCA9820 is a waveguide to coaxial adapter operating in the X band 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 FMWCA9820 is constructed of aluminum to ensure durability and repeatable RF performance.

Configuration

Waveguide Size	WR-112
Flange	Square Type
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

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

Mechanical Specifications

Size	
Length	2.47 in [62.74 mm]
Width	1.88 in [47.75 mm]
Height	1.14 in [28.96 mm]
Weight	0.253 lbs [114.76 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

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
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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
- Right Angle

Applications:

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

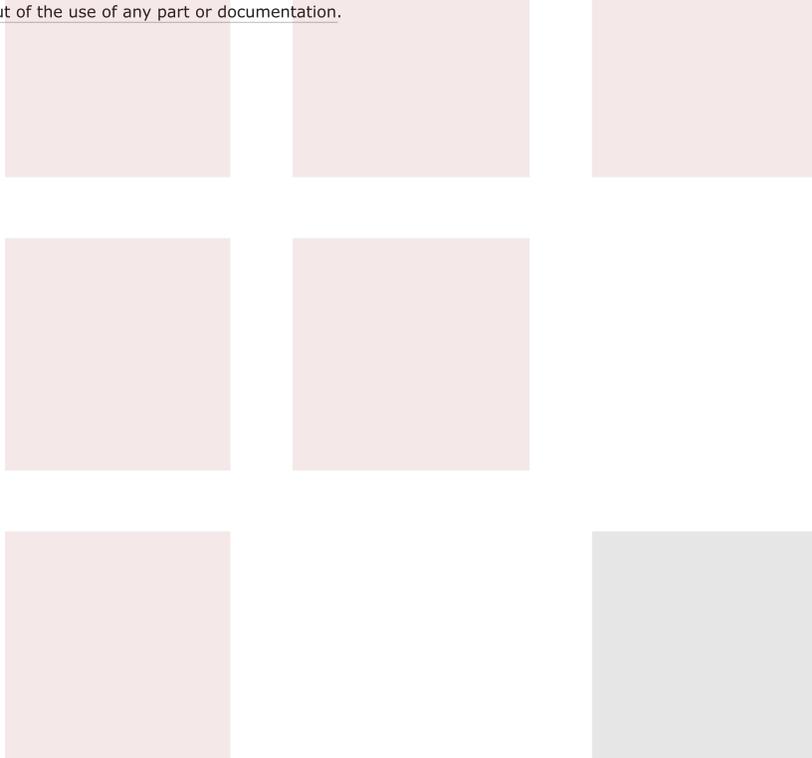
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WR-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008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

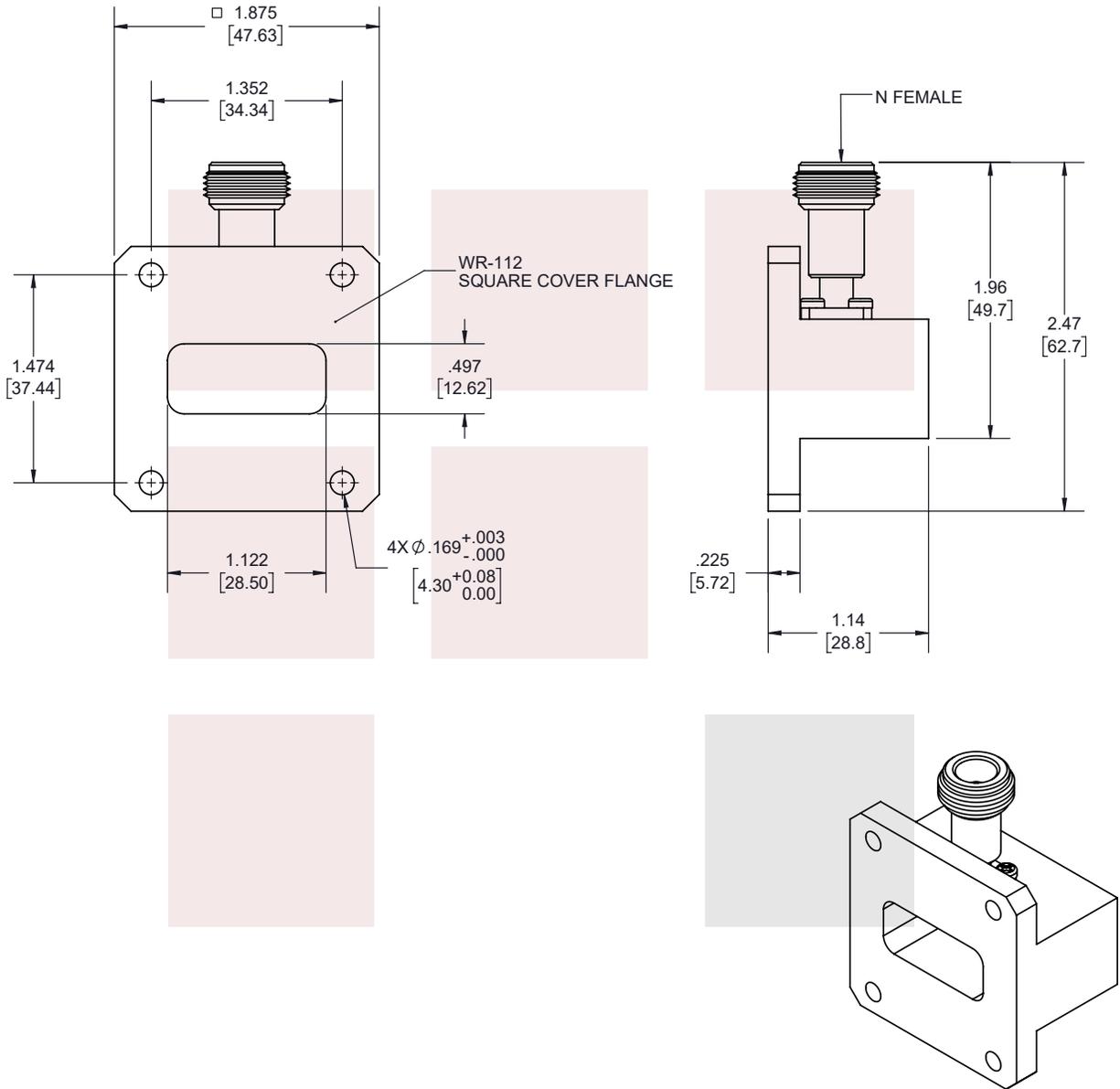
For additional information on this product, please click the following link: [WR-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz FMWCA9820](#)

URL: <https://www.fairviewmicrowave.com/wr112-type-n-female-waveguide-coax-adapter-square-fmwca9820-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/14/2022	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]
.XXX = ±.005 [.13] ANGLES ± 1°

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. FMWCA9820	REV A
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