

WR-102 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating From 7 GHz to 11 GHz

The FMWCA9871 is a waveguide to coaxial adapter with a 7 to 11 GHz frequency range. This adapter offers a WR-102 waveguide interface size coupled with a precision tolerance Square Type flange. The FMWCA9871 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA Female connector mates with commercially available 2.92mm and 3.5mm connectors.

Configuration

Waveguide Size	WR-102
Flange	Square Type
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	End Launch

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7		11	GHz
VSWR			1.4:1	

Mechanical Specifications

Size

Length	1.8 in [45.72 mm]
Width	1.6 in [40.64 mm]
Height	1.6 in [40.64 mm]
Weight	0.25 lbs [113.4 g]

RF Connector

Connector Type	SMA Female
Body Material and Plating	Passivated Stainless Steel

Waveguide Interface

Waveguide Type	WR-102
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 to 11 GHz Frequency Range
- WR-102 Waveguide Interface
- Square Type Flange
- SMA Female RF Interface
- End Launch

Applications:

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

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WR-102 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating From 7 GHz to 11 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.

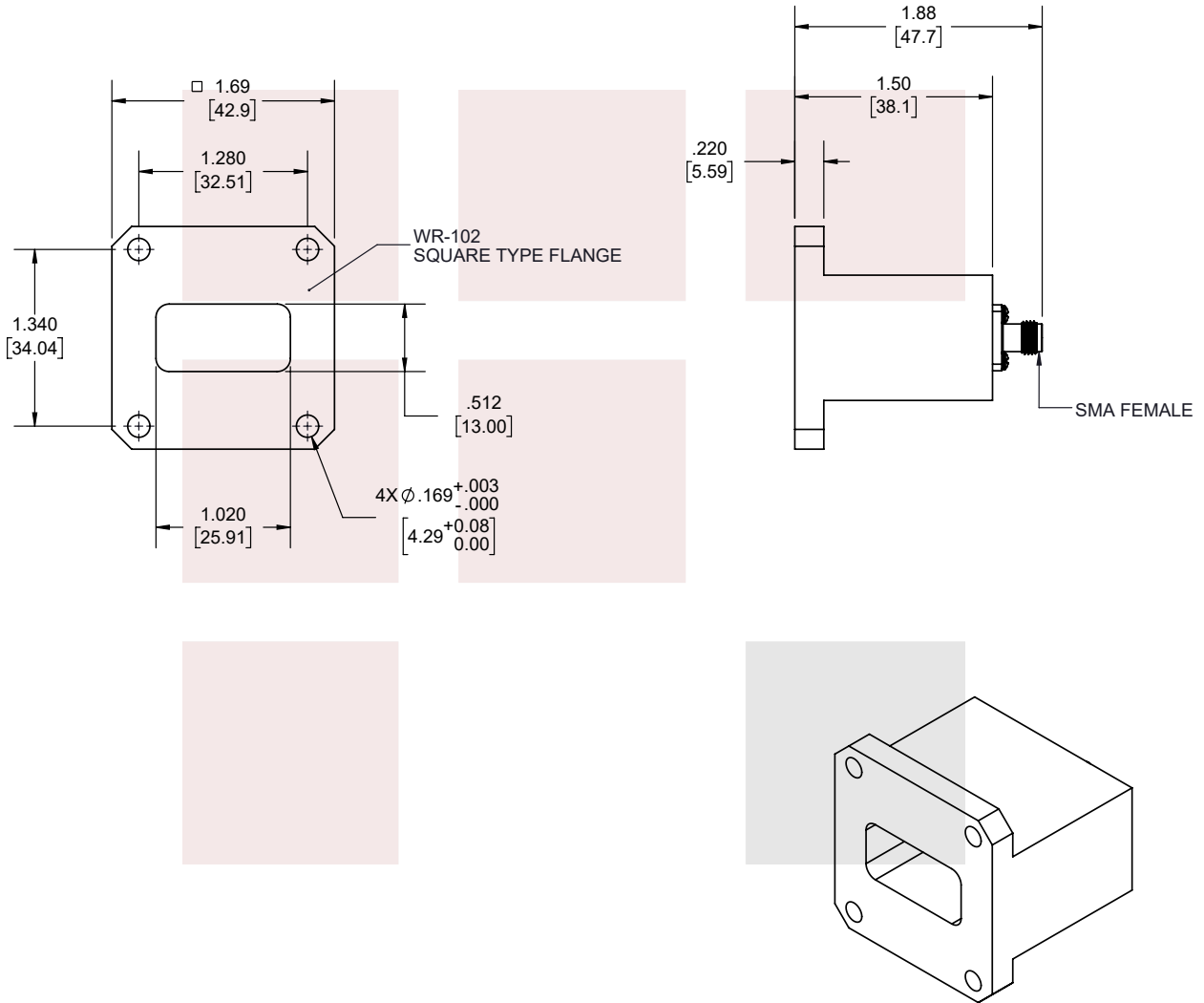
For additional information on this product, please click the following link: [WR-102 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating From 7 GHz to 11 GHz FMWCA9871](#)

URL: <https://www.fairviewmicrowave.com/wr102-sma-female-end-launch-waveguide-coax-adapter-square-fmwca9871-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: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	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. FMWCA9871	REV A
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