

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

The FMWCA9884 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 FMWCA9884 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. The package is REACH and RoHS compliant.

Configuration

Waveguide Size	WR-112
Flange	Square Type
RF Connector	SMA 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	
Input Power (Peak)			100	Watts

Mechanical Specifications

Size

Length	1.14 in [28.96 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	0.2 lbs [90.72 g]

RF Connector

Connector Type	SMA 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
- SMA 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 SMA 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.

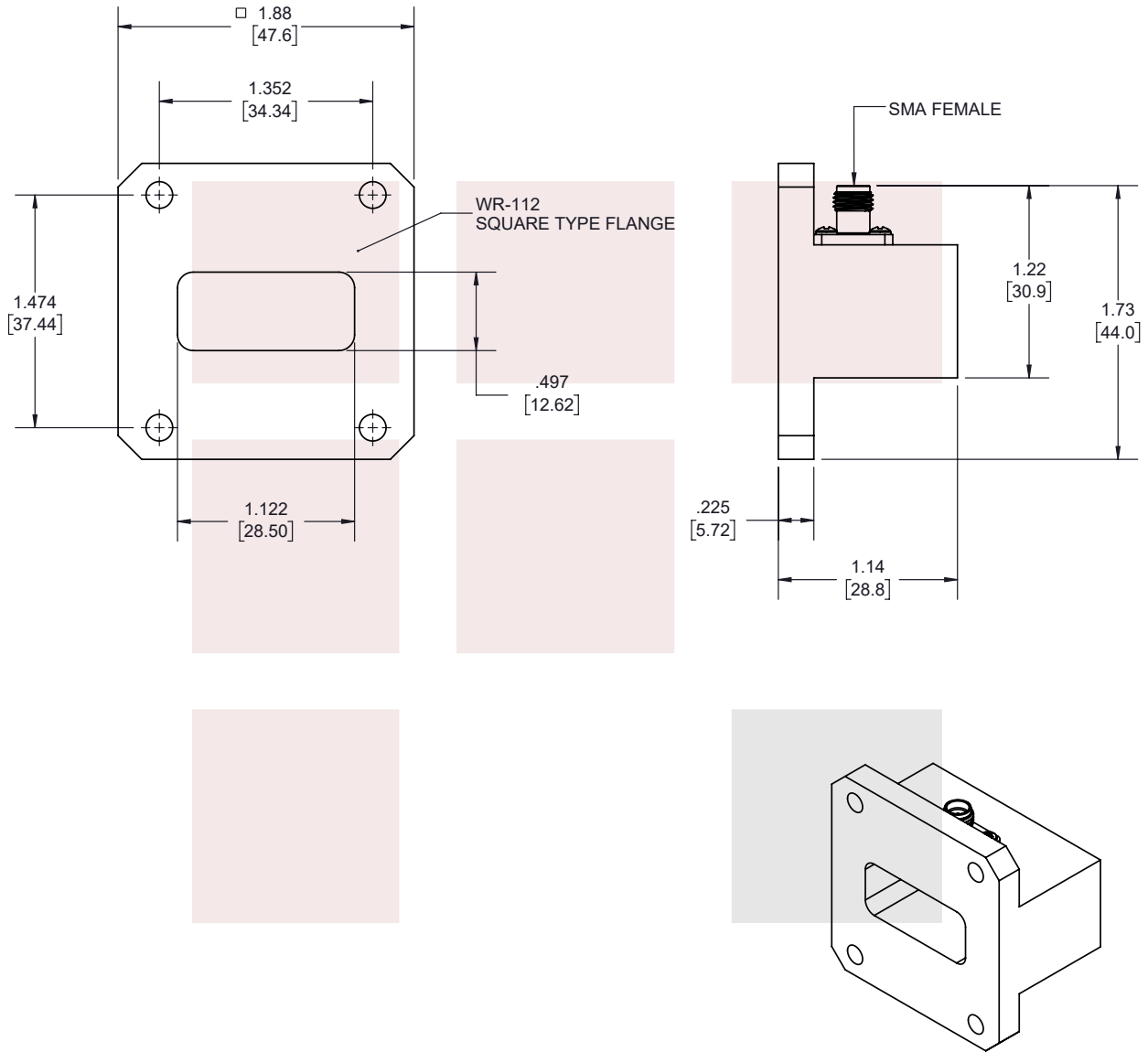
For additional information on this product, please click the following link: [WR-112 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz FMWCA9884](#)

URL: <https://www.fairviewmicrowave.com/wr112-sma-female-waveguide-coax-adapter-square-fmwca9884-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/18/2022	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 ± 1/32	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]		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. FMWCA9884	REV A
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