

## WR-112 to SMA Female Waveguide to Coax Adapter UBR84 with 6.57 GHz to 9.99 GHz in Aluminum

The FMWCA1090 is a right angle waveguide to coaxial adapter operating at a 6.57 GHz to 9.99 GHz frequency range. This adapter offers a WR-112 waveguide interface size using a standard UBR84 Cover Flange. The FMWCA1090 is constructed of Aluminum Alloy and painted gray to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Connector.

### Configuration

Waveguide Size	WR-112
Flange	UBR84
RF Connector	SMA Female
Body Geometry	Right Angle

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	6.57		9.99	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			100	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.65 in [41.91 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]

<b>RF Connector</b>	
Connector Type	SMA Female

<b>Waveguide Interface</b>	
Waveguide Type	WR-112
Flange Type	UBR84
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:

- 6.57 to 9.99 GHz Frequency Range
- WR-112 Waveguide Interface
- UBR84 Cover Flange
- SMA Female RF Interface
- Comprehensive waveguide offering also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

### Applications:

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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

WR-112 to SMA Female Waveguide to Coax Adapter UBR84 with 6.57 GHz to 9.99 GHz in Aluminum 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.

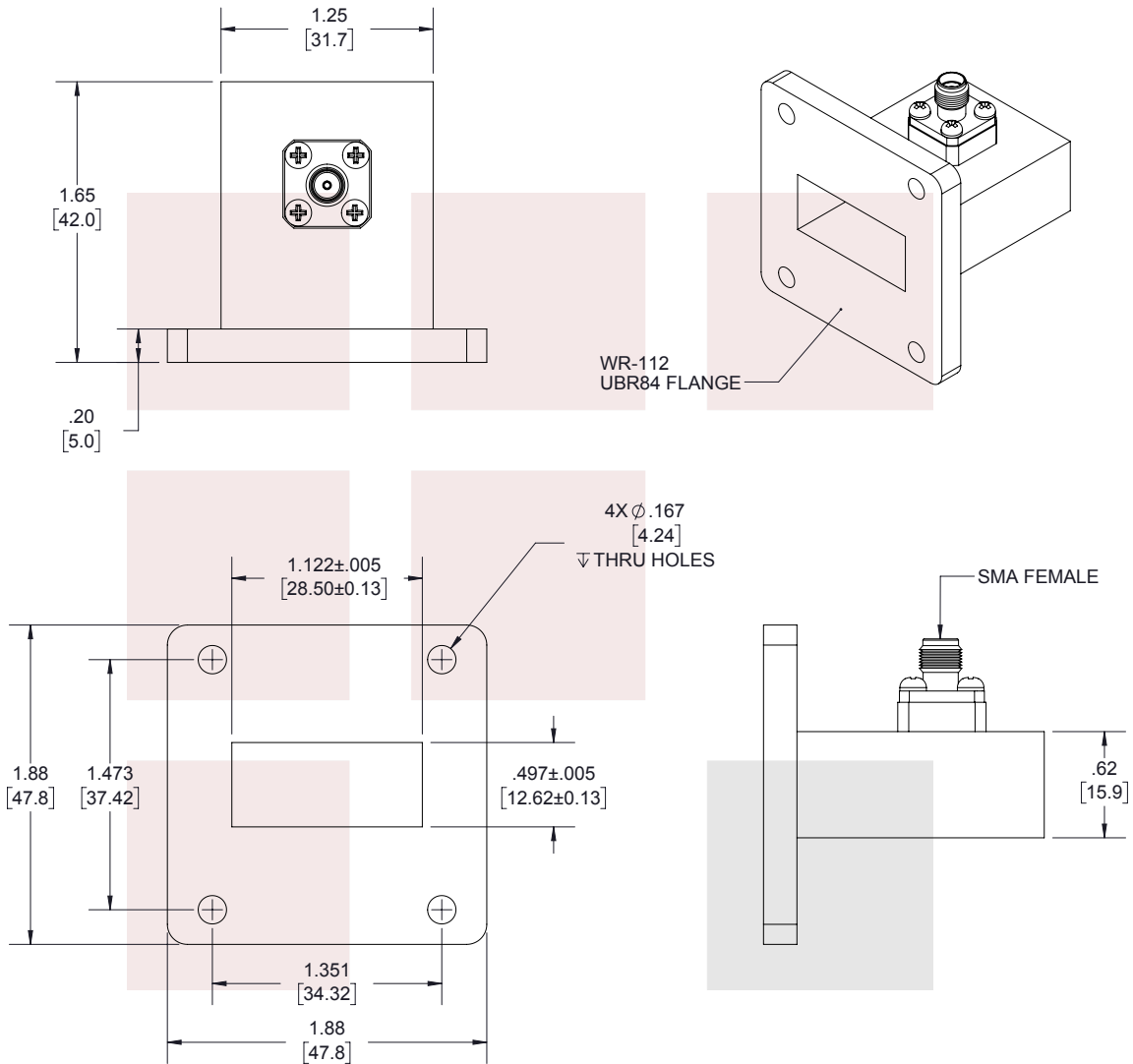
For additional information on this product, please click the following link: [WR-112 to SMA Female Waveguide to Coax Adapter UBR84 with 6.57 GHz to 9.99 GHz in Aluminum FMWCA1090](#)

URL: <https://www.fairviewmicrowave.com/wr112-sma-female-waveguide-coax-adapter-ubr84-fmwca1090-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/05/2020	SPONG



LABEL:

FAIRVIEW MICROWAVE  
FMWCA1090  
D/C: YYWW

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TITLE

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UBR84 with 6.57 GHz to 9.99 GHz in Aluminum

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 BPUCHASKI	ITEM NO. FMWCA1090	REV A
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