

**WR-112 to SMA Female Waveguide to Coax Adapter
 CPR-112G Grooved Flange With 7.05 GHz to 10 GHz
 Frequency Range For H Band**

The FMWCA1011 is a waveguide to coaxial adapter operating in the H Band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size using a Grooved CPR-112G Flange. The FMWCA1011 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

| | |
|----------------|-------------|
| Waveguide Size | WR-112 |
| Flange | CPR-112G |
| 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 | | | 1.25:1 | |

Mechanical Specifications

Weight 0.391 lbs [177.35 g]

RF Connector

Connector Type SMA Female
 Body Material and Plating Brass, Nickel

Waveguide Interface

Waveguide Type WR-112
 Flange Type CPR-112G
 Body Material and Plating Copper, Paint

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

Plotted and Other Data

Notes:
 • Values at +25 °C, sea level unless stated otherwise



Features:

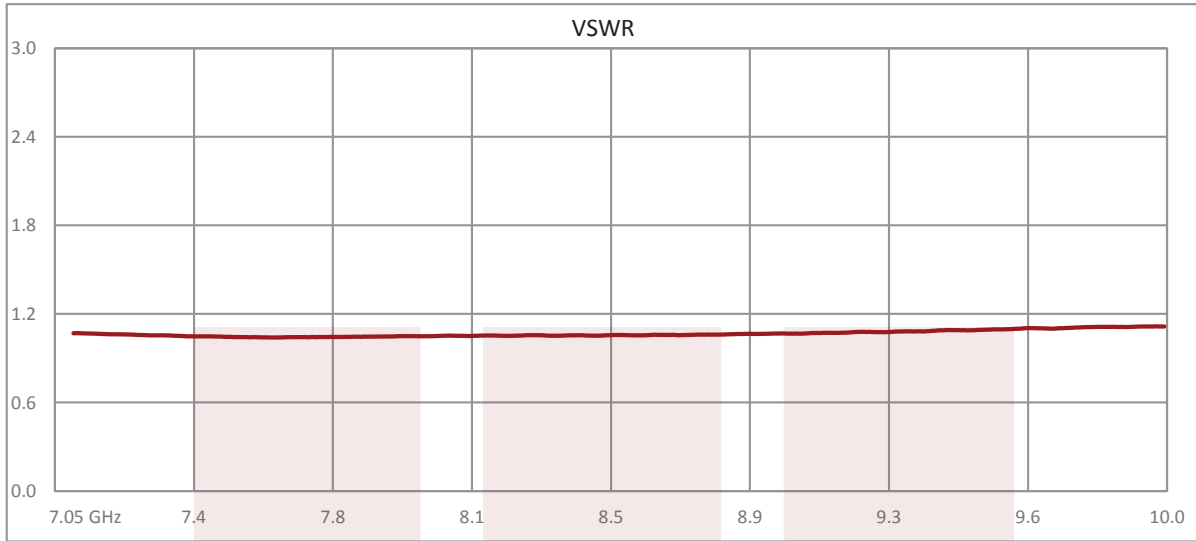
- H Band
- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Grooved CPR-112G Flange
- SMA Female RF Interface

Applications:

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

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Typical Performance Data

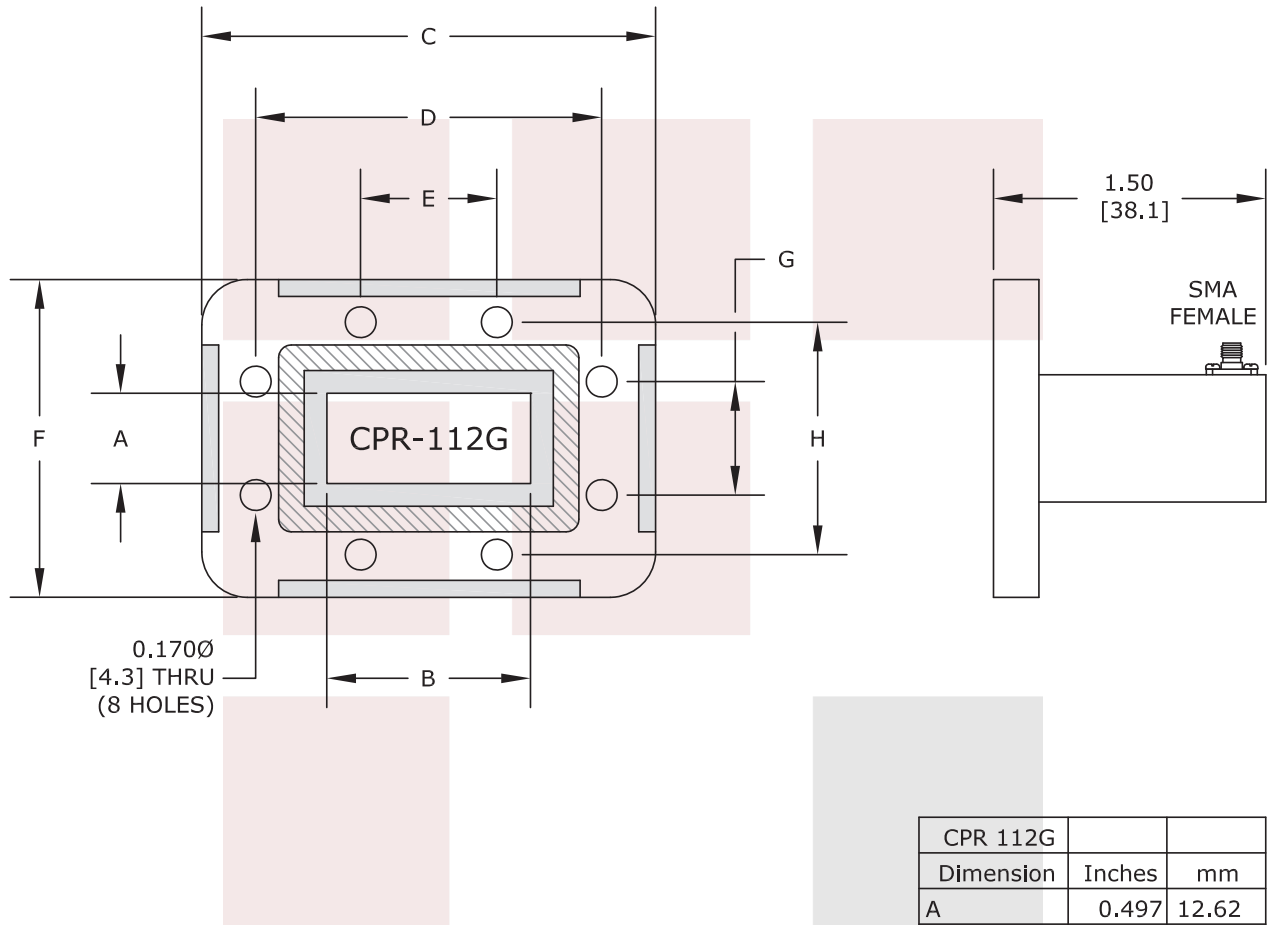


WR-112 to SMA Female Waveguide to Coax Adapter CPR-112G Grooved Flange With 7.05 GHz to 10 GHz Frequency Range For H Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, 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 CPR-112G Grooved Flange With 7.05 GHz to 10 GHz Frequency Range For H Band FMWCA1011](https://www.fairviewmicrowave.com/wr-112-sma-female-waveguide-coax-adapter-cpr-112g-grooved-10-ghz-fmw-ca1011-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-112-sma-female-waveguide-coax-adapter-cpr-112g-grooved-10-ghz-fmw-ca1011-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES.
 DECIMALS ANGLES
 .X ±.030 ±1/2 DEG.
 .XX ±.015 FRACTIONS
 .XXX ±.005 ±1/32

* THESE DIMENSIONS AND TOLERANCES
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

| CPR 112G | | |
|-----------|--------|-------|
| Dimension | Inches | mm |
| A | 0.497 | 12.62 |
| B | 1.122 | 28.50 |
| C | 2.500 | 63.50 |
| D | 1.906 | 48.41 |
| E | 0.750 | 19.05 |
| F | 1.750 | 44.45 |
| G | 0.625 | 15.88 |
| H | 1.280 | 32.51 |

| | | | | | |
|--|--|---|-------|--------------------------------|----------------|
| FAIRVIEW MICROWAVE INC. | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | DWG NO FMWCA1011 | | CAGE CODE 3FKR5 | |
| TITLE WR-112 to SMA Female Waveguide to Coax Adapter CPR-112G Grooved Flange With 7.05 GHz to 10 GHz Frequency Range For H Band | | CAD FILE 092216 | SHEET | SCALE N/A | SIZE A 2233 |