

**WR-51 to SMA Female Waveguide to Coax Adapter  
 Square Cover Flange With 15 GHz to 22 GHz Fre-  
 quency Range For N Band**

The FMWCA1002 is a waveguide to coaxial adapter operating in the N Band with a 15 to 22 GHz frequency range. This adapter offers a WR-51 waveguide interface size using a standard Square Cover Flange. The FMWCA1002 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-51
Flange	Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	15		22	GHz
VSWR		1.25:1		

**Mechanical Specifications**

Weight 0.1675 lbs [75.98 g]

**RF Connector**

Connector Type SMA Female  
 Body Material and Plating Brass, Nickel

**Waveguide Interface**

Waveguide Type WR-51  
 Flange Type Square Cover  
 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:**

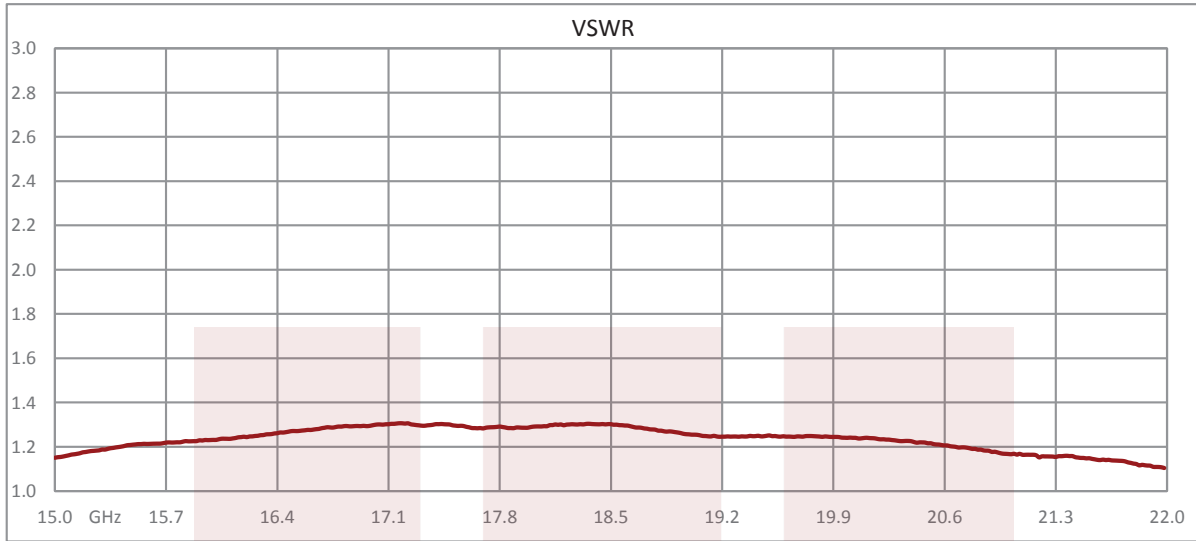
- N Band
- 15 to 22 GHz Frequency Range
- WR-51 Waveguide
- Square Cover Flange
- SMA Female RF Interface

**Applications:**

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

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**Typical Performance Data**

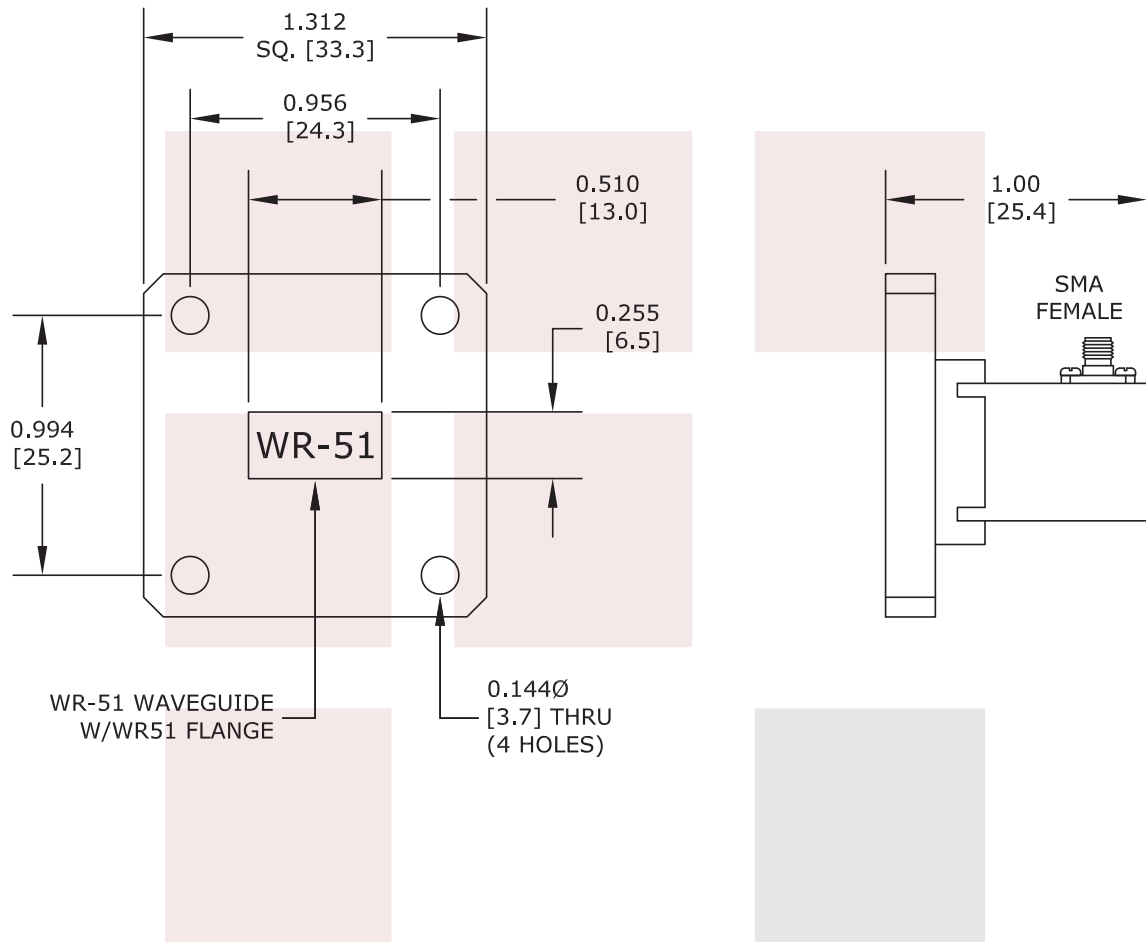


WR-51 to SMA Female Waveguide to Coax Adapter Square Cover Flange With 15 GHz to 22 GHz Frequency Range For N Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-51 to SMA Female Waveguide to Coax Adapter Square Cover Flange With 15 GHz to 22 GHz Frequency Range For N Band FMWCA1002](https://www.fairviewmicrowave.com/wr-51-sma-female-waveguide-coax-adapter-square-22-ghz-fmwca1002-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-51-sma-female-waveguide-coax-adapter-square-22-ghz-fmwca1002-p.aspx>

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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.

<b>FAIRVIEW MICROWAVE INC.</b>		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 <b>FMWCA1002</b>	CAGE CODE <b>3FKR5</b>
TITLE WR-51 to SMA Female Waveguide to Coax Adapter Square Cover Flange With 15 GHz to 22 GHz Frequency Range For N Band		CAD FILE 092016 SHEET	SCALE N/A SIZE A 2233