

SMW42EC002-20 DATA SHEET

20 dB WR-42 Waveguide Broadwall Coupler with UG-595/U Square Cover Flange and E-Plane Coupled Port from 18 GHz to 26.5 GHz in Brass Copper

The SMW42EC002-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 18 to 26.5 GHz (K Band). This K band component offers a nominal coupling level of 20 dB, mean coupling accuracy of +/- .8, coupling flatness of 1 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold brass copper and incorporates a multi-hole configuration that results in typical directivity of 30 dB. Common applications for this millimeter wave component involve test setups where power reflection measurements are required that might involve power sampling and frequency monitoring with minimal signal loss to the main transmission path. This E plane coupler uses integrated WR-42 waveguide ports with UG 595/U flanges. Fairview Microwave offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.



Description	Min	Тур	Max	Units
Frequency Range	18		26.5	GHz
Coupler				
Nominal Coupling Lev	rel	20		dB
Coupling Accuracy			±0.8	dB
Directivity		30		dB
Insertion Loss			0.6	dB
Main Line VSWR			1.2:1	
Secondary Line VSWR		1.2:1		
Coupling Flatness			±1	dB



Features:

- 20 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
- 18 GHz to 26.5 GHz Frequency Range
- Body and Flanges made of Brass Copper
- Gold Waveguide
- 1.2:1 VSWR

Applications:

- Test Benches
- Radar
- Satellite
- · Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

Mechanical Specifications

Size

 Length
 11.5 in [292.1 mm]

 Width
 0.88 in [22.35 mm]

 Height
 2 in [50.8 mm]

 Weight
 0.438 lbs [198.67 g]

Interface

Waveguide Size

Flange Type

Flange Designation

Flange Material and Plating

Coupler Body Material and Plating

WR-42

Square Cover

UG-595/U

Brass Copper, Gold

Brass Copper

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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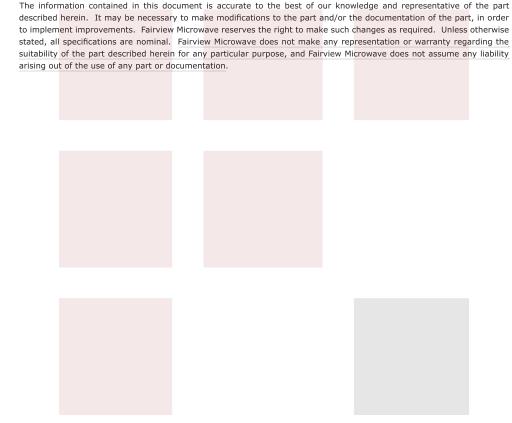




20 dB WR-42 Waveguide Broadwall Coupler with UG-595/U Square Cover Flange and E-Plane Coupled Port from 18 GHz to 26.5 GHz in Brass Copper from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

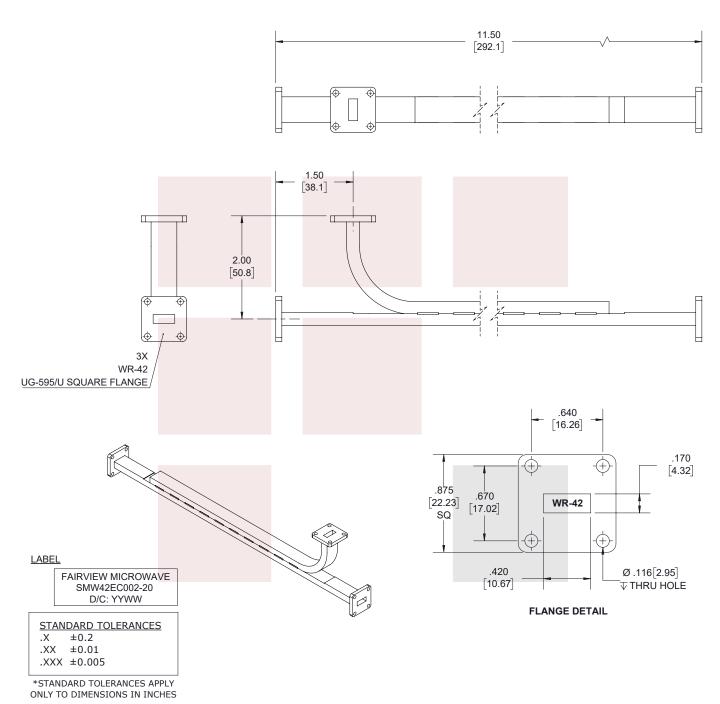
For additional information on this product, please click the following link: 20 dB WR-42 Waveguide Broadwall Coupler with UG-595/U Square Cover Flange and E-Plane Coupled Port from 18 GHz to 26.5 GHz in Brass Copper SMW42EC002-20

URL: https://www.fairviewmicrowave.com/20db-wr42-waveguide-broadwall-coupler-ug595-square-e-26.5ghz-smw42ec002-20-p.aspx









Fairview Microwave	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].						
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	CAD FILE 08/27/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	