

**WR-28 to 2.92mm Female Waveguide to Coax Adapter UG-599/U Square Cover Flange With 26.5 GHz to 40 GHz Frequency Range For Ka Band**

The SMW28AC001-KF is a waveguide to coaxial adapter with a frequency range of 26.5 to 40 GHz, operating in the Ka Band. This adapter offers a precision tolerance UG-599/U flange and a WR-28 waveguide interface size. The SMW28AC001-KF is constructed of gold plated aluminum to ensure durability and repeatable RF performance.

**Configuration**

Waveguide Size	WR-28
Flange	UG-599/U Square Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	26.5		40	GHz
VSWR			1.29:1	
Insertion Loss			0.35	dB

**Mechanical Specifications**

**Size**

Length	0.75 in [19.05 mm]
Width	0.75 in [19.05 mm]
Height	0.895 in [22.73 mm]
Weight	0.02 lbs [9.07 g]

**RF Connector**

Connector Type	2.92mm Female
Body Material and Plating	Stainless Steel

**Waveguide Interface**

Waveguide Type	WR-28
Flange Type	Square Cover
Flange Designation	UG-599/U
Body Material and Plating	Aluminum, Gold
Plating Specification	ASTMB488

**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

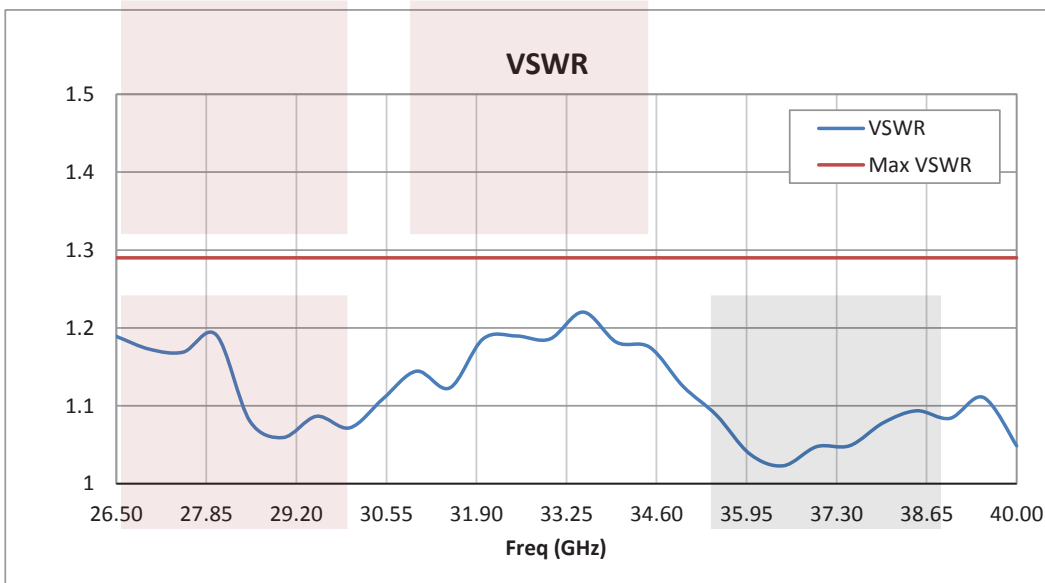
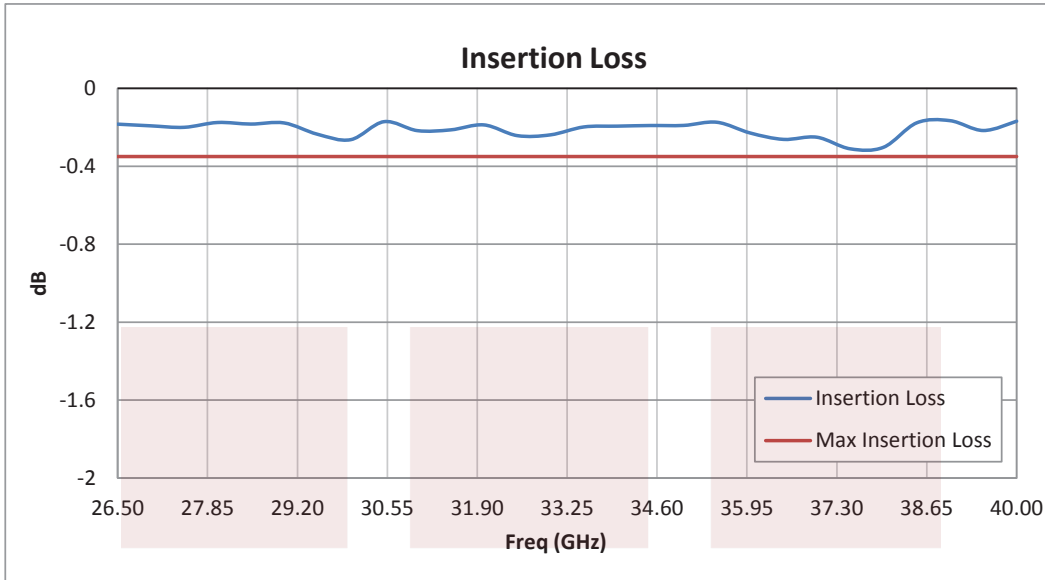


**Features:**

- Ka Band, 26.5 to 40 GHz Frequency Range
- WR-28 Waveguide Interface with UG-599/U Flange
- 2.92mm Female RF Interface
- Comprehensive waveguide offering also includes E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

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**Typical Performance Data**



WR-28 to 2.92mm Female Waveguide to Coax Adapter UG-599/U Square Cover Flange With 26.5 GHz to 40 GHz Frequency Range For Ka 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-28 to 2.92mm Female Waveguide to Coax Adapter UG-599/U Square Cover Flange With 26.5 GHz to 40 GHz Frequency Range For Ka Band SMW28AC001-KF](#)

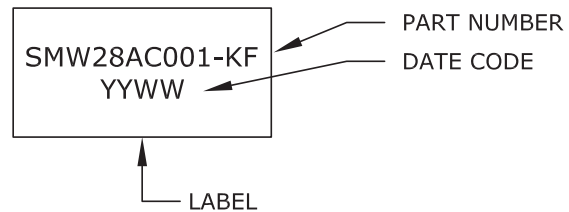
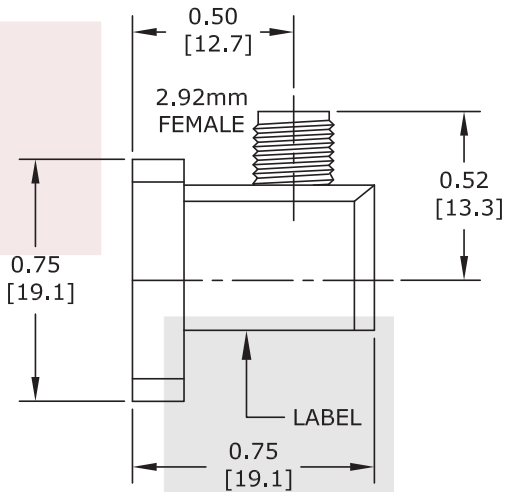
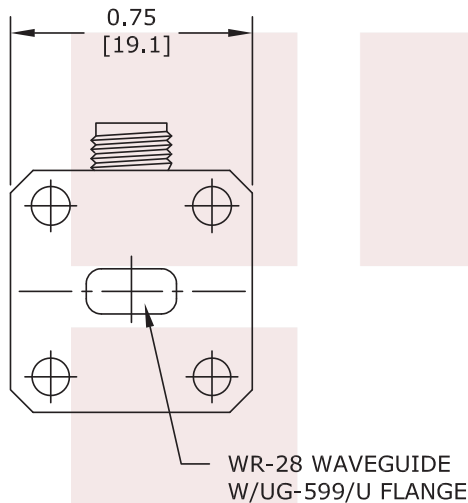
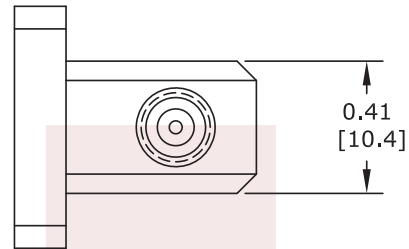
URL: <https://www.fairviewmicrowave.com/wr-28-2.92mm-waveguide-coax-adapter-40-ghz-smw28ac001-kf-p.aspx>

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
DECIMALS	ANGLES FRACTIONS
.XX ± .03	± 1° ± 1/16
.XXX ± .010	
<u>HOLE DIAMETER</u>	<u>TOLERANCE</u>
.0135 TO .125	+.004/- .001
.126 TO .250	+.005/- .001
.251 TO .500	+.006/- .001
.501 TO .750	+.008/- .001
.751 TO 1.000	+.010/- .001
1.001 TO 2.000	+.012/- .001

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



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TITLE WR-28 to 2.92mm Female Waveguide to Coax Adapter UG-599/U Square Cover Flange With 26.5 GHz to 40 GHz Frequency Range For Ka Band	DWG NO SMW28AC001-KF	CAGE CODE 3FKR5			
CAD FILE 101915	SHEET	SCALE N/A	SIZE A	150	