

WR-12 to 1.0mm Male Waveguide to Coax Adapter UG-387/U Round Cover Flange With 60 GHz to 90 GHz Frequency Range For E Band

The SMW12AC001-VM is a waveguide to coaxial adapter operating in the E Band with a 60 to 90 GHz frequency range. This adapter offers a WR-12 waveguide interface size coupled with a precision tolerance UG-387/U Round Cover flange. The SMW12AC001-VM is constructed of aluminum and plated in gold to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 1 mm Male Connector endorsed by the International Electrotechnical Commission (IEC).

Configuration

Waveguide Size	WR-12
Flange	UG-387/U Round Cover
RF Connector	1.0mm Male
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	60		90	GHz
VSWR			1.67:1	
Insertion Loss		1	1.5	dB

Mechanical Specifications

Size

Length	1.05 in [26.67 mm]
Width	0.75 in [19.05 mm]
Height	1.065 in [27.05 mm]
Weight	0.032 lbs [14.51 g]

RF Connector

Connector Type	1.0mm Male
Body Material and Plating	Stainless Steel

Waveguide Interface

Waveguide Type	WR-12
Flange Type	Round Cover
Flange Designation	UG-387/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

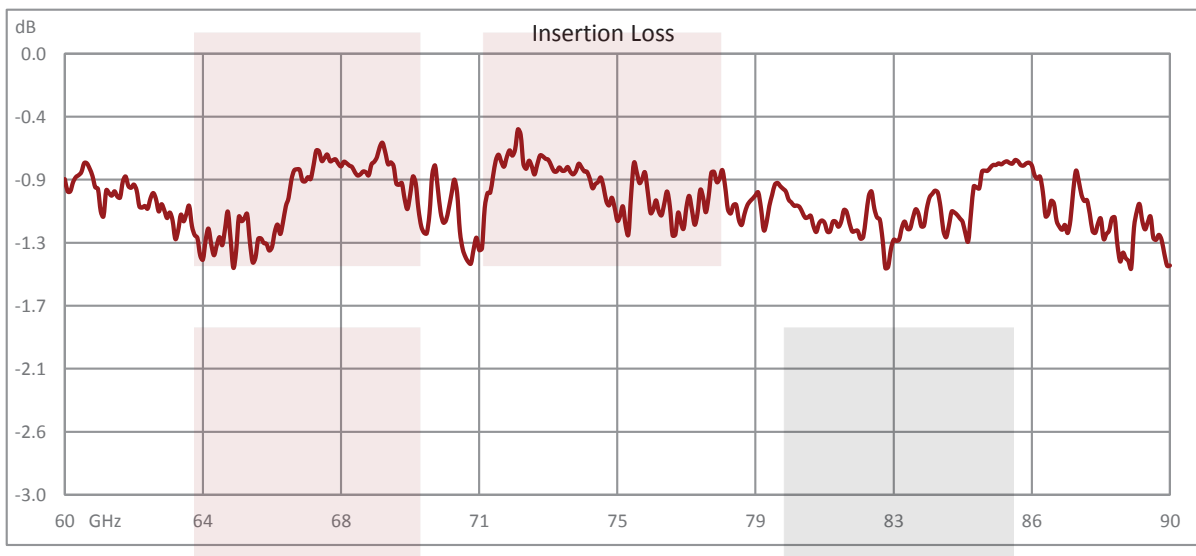
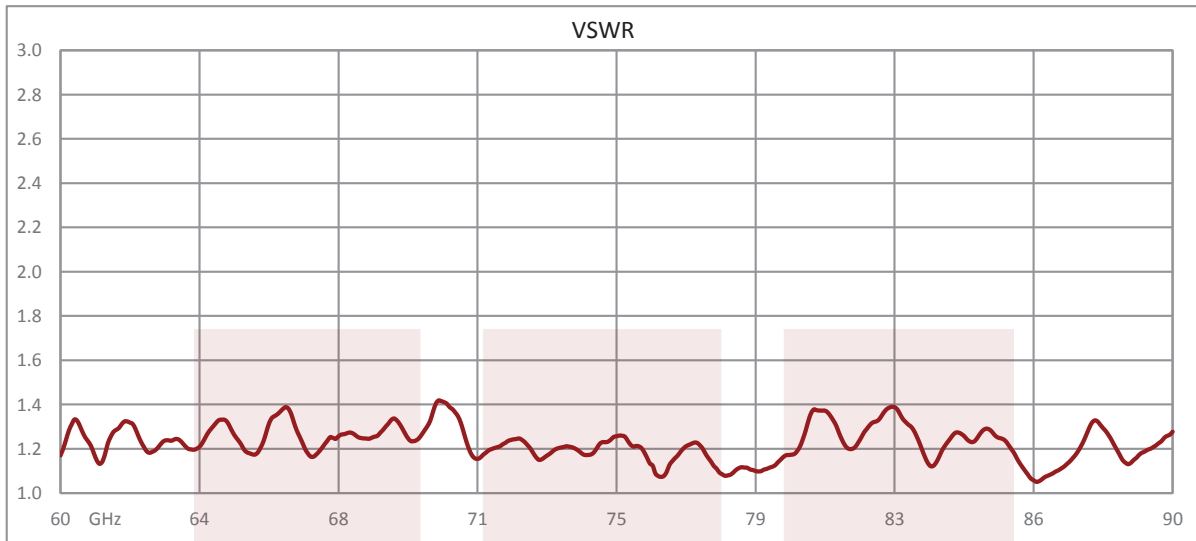


Features:

- E Band, 60 to 90 GHz Frequency Range
- WR-12 Waveguide
- UG-387/U Round Cover Flange
- 1.0 mm Male RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

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Typical Performance Data



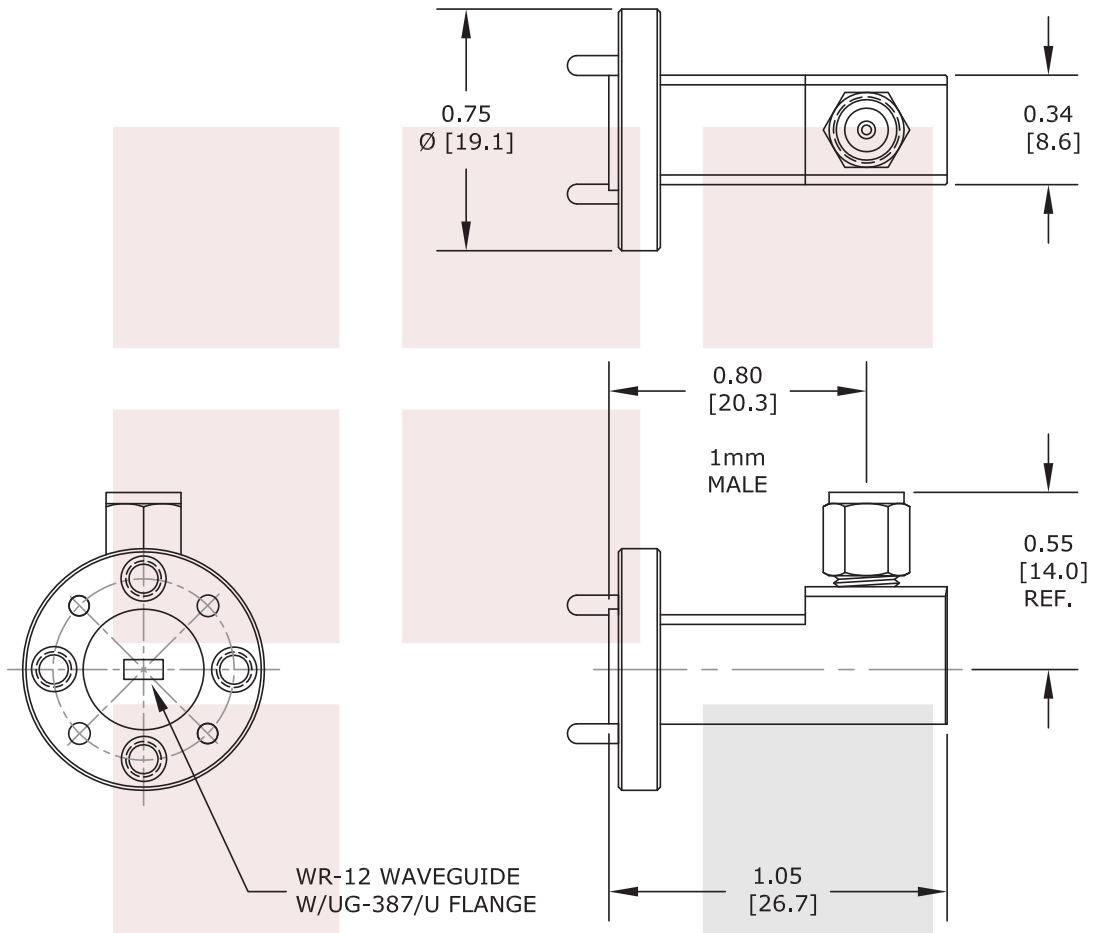
WR-12 to 1.0mm Male Waveguide to Coax Adapter UG-387/U Round Cover Flange With 60 GHz to 90 GHz Frequency Range For E Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-12 to 1.0mm Male Waveguide to Coax Adapter UG-387/U Round Cover Flange With 60 GHz to 90 GHz Frequency Range For E Band SMW12AC001-VM](#)

URL: <https://www.fairviewmicrowave.com/wr-12-1.0mm-male-waveguide-coax-adapter-ug387-round-90-ghz-smw12ac001-vm-p.aspx>

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UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches [mm]
 TOLERANCES ARE:
 DECIMALS ANGLES FRACTIONS
 .XX ±.01 ±1/2° ± 1/64
 [±.25] [± 127/320]
 .XXX ±.005
 [±.127]

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

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ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO SMW12AC001-VM		CAGE CODE 3FKR5	
TITLE WR-12 to 1.0mm Male Waveguide to Coax Adapter UG-387/U Round Cover Flange With 60 GHz to 90 GHz Frequency Range For E Band		CAD FILE 010317	SHEET	SCALE N/A	SIZE A 2233