



# Section 4-9: Waveguide to Coax Adapter

[www.3jmicrowave.com](http://www.3jmicrowave.com) Frequency Coverage: 18 to 67 GHz

## Applications:

- Instrumentation
- Module Assemblies
- Transceivers
- Bench Testing

## Features:

- Low Insertion Loss
- Low Return Loss
- Frequency Coverage up to 67 GHz



## Descriptions:

3J Microwave, Inc. offers a complete line of waveguide to coax adapters in 6 waveguide bands. The waveguide to coax adapters feature Low Insertion Loss and return loss. The frequency coverage is up to 67 GHz. In different waveguide band, 2.9, 2.4 and 1.85 coax connectors

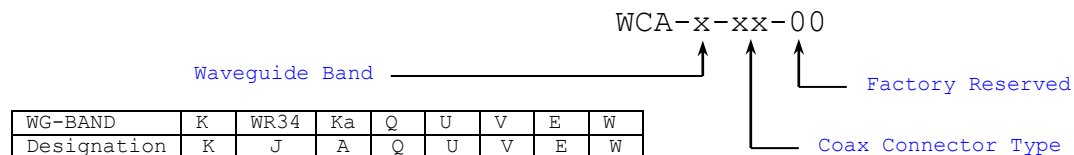
are available for the adapters. They are suitable for the applications of bench testing, Transceivers, module assemblies and instrumentations. The coax-to-waveguide adapters are sorted in category of **WCA** series cross-guide couplers.

## WCA Series Coax to Waveguide Adapter Specifications:

Model No.	WCA-xxx-00*					
WG Band	WR-42	WR-34	WR-28	WR-22	WR-19	WR15
Frequency Range (GHz)	18 to 26.5	22 to 33	26.5 to 40	33 to 50	40 to 60	50 to 67
Insertion Loss (dB)	0.2	0.25	0.3	0.35	0.4	0.5
Return Loss (dB)	-23	-23	-20	-20	-19	-18
Available Coax Connectors	2.9 mm; 2.4 mm	2.9 mm; 2.4 mm	2.9 mm; 2.4 mm	2.9 mm; 2.4 mm; 1.85 mm	2.4 mm; 1.85 mm	1.85 mm
WG Flange	UG595/U	UG595/U	UG599/U	UG383/U	UG383/U	UG385/U
Outline						

\* Please see "how to order" for the model number details

## How to Order:



Connector Type	SMA		2.92		2.4		1.85	
	Male	Female	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F	VM	VF

## Model No. Example:

Model Number of a Q-Band Waveguide to Coax Adapter with 1.85 mm Female Coax Connector: **WCA-QVF-00**

## Outlines:

Please see Section 4-11, Page 4-30 for the outline details