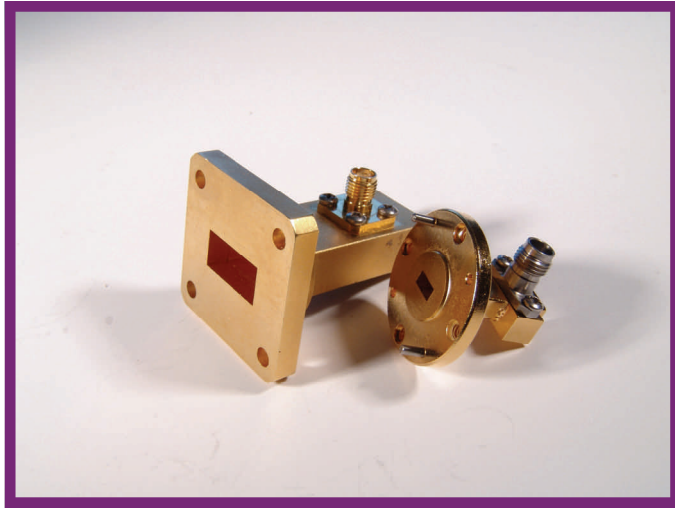


# 410 Series Waveguide to Coax Transitions



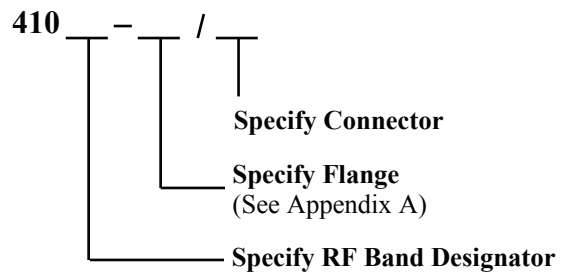
## Features

- Low Cost Versions Available
- Frequency Ranges 12.4 to 75 GHz
- Wide Variety of Coax Connectors Available
- High Performance Versions for Laboratory Use

## Description 410 Series Coax Transitions

*Mi-Wave's* 410 series waveguide to coax transitions allow an efficient method of adapting from rectangular waveguide to a coaxial connector. Full waveguide bands available from 12.4 to 75 GHz. Low insertion losses and VSWR's are typical for these adapters. Low cost production versions available for equipment use and OEM's. Laboratory grades are also offered on some models.

## Ordering Information



## Applications

Test Equipment  
Power Measurement  
Broadband Systems

## *Mi-Wave*

Millimeter Wave Products Inc.

[www.miwv.com](http://www.miwv.com)

2200 Tall Pines Drive, Suite 100

Largo, FL 33771

Tel. (727) 536-0033 Fax. (727) 536-0012

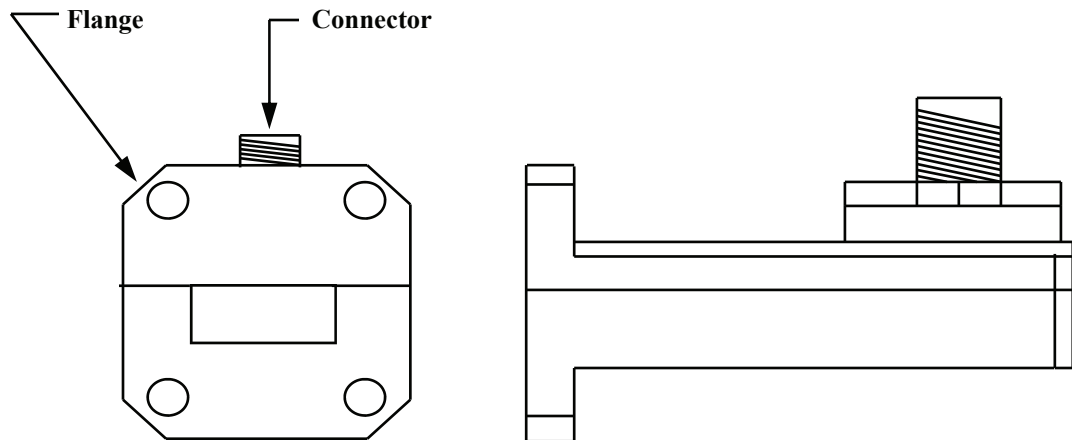
E: [sales@miwv.com](mailto:sales@miwv.com)

# 410 Series Waveguide to Coax Transitions

## Technical Specifications

Model Number	Frequency Band (GHz)	Waveguide	Flange	Standard Connection Available	Insertion (Loss) (dB)	VWSR
410KU	12.4 - 18.0	WR-62	UG-419/U	N, SMA	0.30	1.20:1
410K	18.0 - 26.5	WR-42	UG-595/U	K, 2.4 mm	0.30	1.20:1
410(WR-34)	22.0 - 33.0	WR-34	UG-595/UM	K, 2.4 mm	0.35	1.25:1
410A	26.5 - 40.0	WR-28	UG-599/U	K, 2.4 mm	0.40	1.30:1
410B	33.0 - 50.0	WR-22	UG-599/UM	K, 2.4 mm	0.60	1.40:1
410U	40.0 - 60.0	WR-19	UG-383/UM	2.4 mm	0.80	1.50:1
410V	50.0-75.0	WR-15	UG-385/U	2.4mm,V	1.2	1.65:1

Please Note: Lower frequency versions are available from 6.0 GHz and up.



Please consult **Mi-Wave** for outline drawings for desired

**Mi-Wave**

Millimeter Wave Products, Inc.

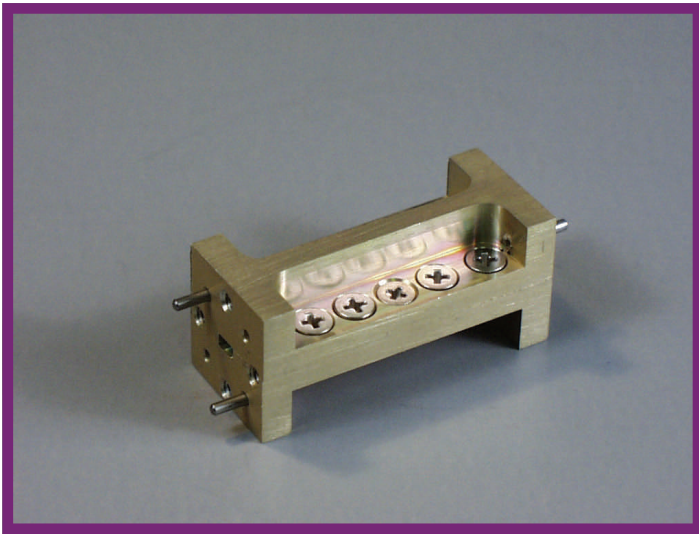
www.miww.com

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# 450 Series

# High Pass Filters



## Features

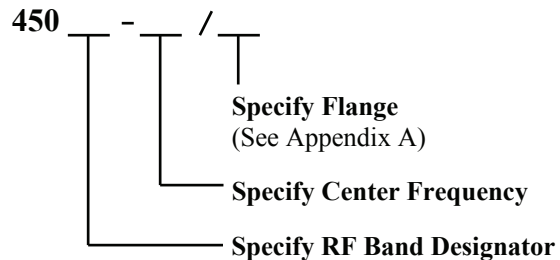
- Low Cost
- Wide Bandwidths
- Low Insertion Loss
- Low VSWR in Band

## Description 450 Series High Pass Filters

**Mi-Wave's** 450 series high pass filters use a simple yet effective waveguide cut-off filter technique. This design is useful for eliminating unwanted side bands in upconverters and out-of band frequencies in communication systems. These filters are small in size and compact by design. The 450 series can be designed for any frequency range from 12.4 to 220 GHz. Low insertion losses from 0.15 dB and cut off rejections of up to 80dB are possible.

Consult **Mi-Wave** for dimensions due to the wide range of waveguide sizes and frequency ranges.

## Ordering Information



## Applications

Side Band Filters  
Frequency Diplexers  
Telecommunications Systems

## Mi-Wave

Millimeter Wave Products Inc.

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# 460 Series

# Band Pass Filters



## Features

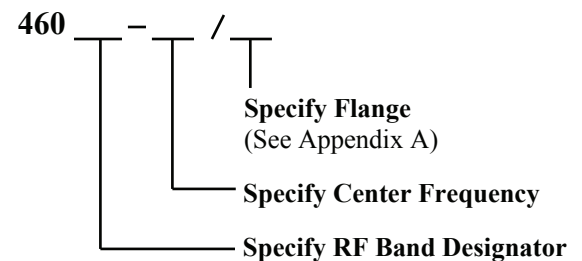
- Low Cost
- Low VSWR
- Narrow Bandwidths
- High Rejection Levels
- Low in-Band Insertion

## Description 460 Series Band Pass Filters

**Mi-Wave's** 460 series band pass filter is primarily used for narrow band applications. Pass bands are typically from 1% to 4%. This design is well suited for frequency diplexers used in communication systems or any application where narrow bandwidths are required. Insertion losses are typically in the 0.8 dB to 2.0dB area depending upon rejection levels. The 460 series band pass filter can be designed from 12.4 to 60 GHz.

Please consult **Mi-Wave** for further dimensions and specific technical data.

## Ordering Information



## Applications

Side Band Filters  
Frequency Diplexers  
Telecommunications Systems

## **Mi-Wave**

Millimeter Wave Products Inc.

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