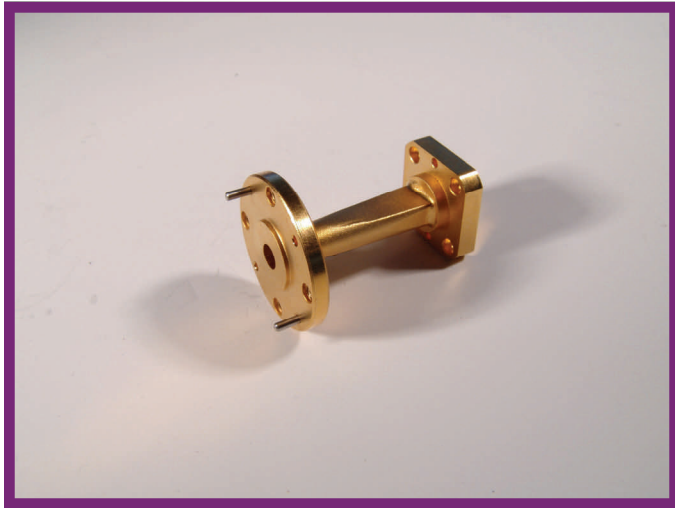


284 Series

Tapered Mode Transitions



Features

- Low Insertion Loss
- Precision-Fabricated
- VSWR < 1.15 Over a 10% Bandwidth
- Converts from Rectangular TE₁₀ Mode to Circular TE₁₁ Mode
- Available from 18.0 to 110 GHz with 10% or Greater Bandwidth

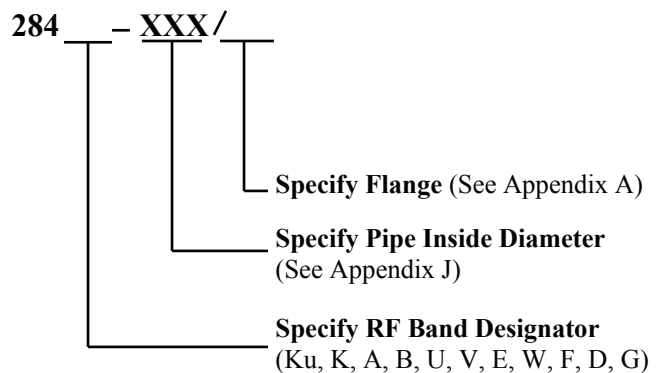
Description 284 Series Mode Transitions

Mi-Wave's 284 series tapered mode transitions is a precision formed adapter used to transform rectangular TE₁₀ mode waveguide to a circular TE₁₁ mode waveguide. Mainly used in antenna systems and associated components to adapt to conventional waveguide.

Applications

Antenna Systems
Orthomode Transducers
Polarization for Antennas

Ordering Information



Mi-Wave

Millimeter Wave Products Inc.

www.miwv.com

2200 Tall Pines Drive, Suite 100

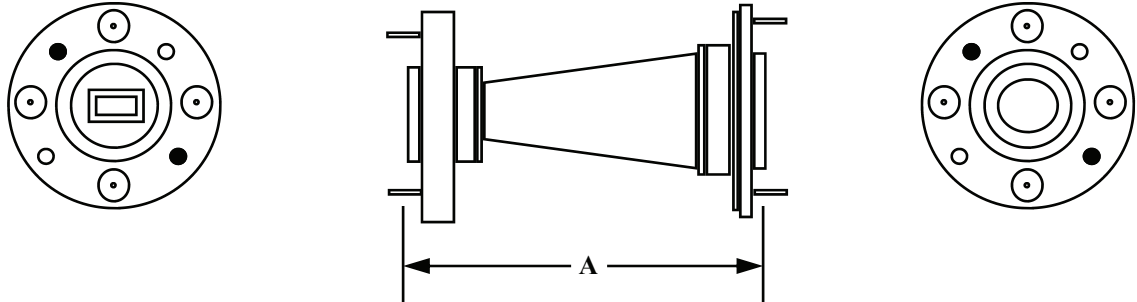
Largo, FL 33771

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

E: sales@miwv.com

284 Series

Tapered Mode Transitions



Specifications

Model Number	Frequency Band (GHz)	Waveguide I.D. (Inches)	Waveguide Type	Maximum VSWR	A in	A mm
284Ku	12.4-18.0	0.622 x 0.311	WR-62	1.15	2.5	63.5
284K	18.0-26.5	0.420 x 0.170	WR-42	1.15	2.0	50.8
284A	26.5-40.0	0.280 x 0.140	WR-28	1.15	1.5	38.1
284B	33.0-50.0	0.224 x 0.122	WR-22	1.15	1.5	38.1
284U	40.0-60.0	0.188 x .094	WR-19	1.15	1.5	38.1
284V	50.0-75.0	0.148 x 0.074	WR-15	1.15	1.1	27.9
284E	60.0-90.0	0.122 x 0.061	WR-12	1.15	1.1	27.9
284W	75.0-110.0	0.100 x 0.050	WR-10	1.15	1.1	27.9
284F	90.0-140.0	0.080 x 0.040	WR- 8	1.15	1.1	27.9
284D	110.0-170.0	0.065 x 0.0325	WR- 7	1.15	1.1	27.9
284G	140.0-220.0	0.051 x 0.0255	WR- 5	1.15	1.1	27.9

1. Dimensions, specifications, and configurations are subject to change without notice.
2. Other flanges available on request at additional cost.

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