

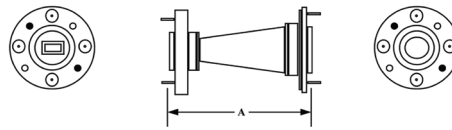
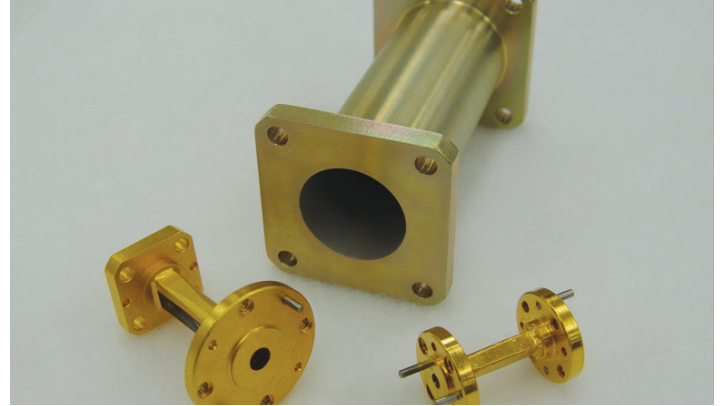
## Description

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.

- *Low Insertion Loss*
- *Precision-fabricated*
- *VSWR < 1.15 over a 10% Bandwidth*
- *Converts from rectangular TE10 Mode to Circular TE11 Mode*
- *Available from 5.4 to 325 GHz with 10% or greater bandwidth*

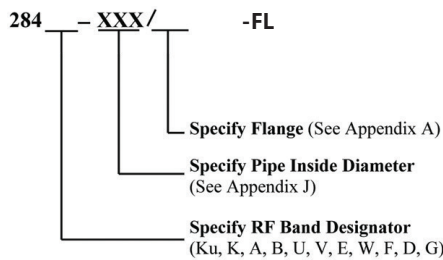
## Applications

Antenna Systems  
Orthomode Transducers  
Polarization for Antennas



Dimensional Specifications		
Model No.	A	
	in.	mm
<b>284Ku</b>	2.5	63.5
<b>284K</b>	2.0	50.8
<b>284A</b>	1.5	38.1
<b>284B</b>	1.5	38.1
<b>284U</b>	1.5	38.1
<b>284V</b>	1.1	27.9
<b>284E</b>	1.1	27.9
<b>284W</b>	1.1	27.9
<b>284F</b>	1.1	27.9
<b>284D</b>	1.1	27.9
<b>284G</b>	1.1	27.9

## Ordering Information



Band	Pipe ID	Frequency Band
<b>Ku-1</b>	.660	12.4–14.6
<b>Ku-2</b>	.550	14.6–17.5
<b>K-1</b>	.470	17.5–20.5
<b>K-2</b>	.396	20.5–24.5
<b>K-3</b>	.328	24.5–26.5
<b>A-0</b>	.328	26–28.5
<b>A-1</b>	.281	28.5–33
<b>A-2</b>	.250	33–38.5
<b>A-3</b>	.219	38.5–43
<b>B-0</b>	.250	33–38.5
<b>B1</b>	.219	38.5–43
<b>B-2</b>	.188	43–50
<b>U-0</b>	.219	38.5–43
<b>U-1</b>	.188	43–50
<b>U-2</b>	.165	50–58
<b>V-0</b>	.165	50–58
<b>V-1</b>	.141	58–68
<b>V-2</b>	.125	T68–77
<b>E-0</b>	.141	58–68
<b>E-1</b>	.125	68–77
<b>E-2</b>	.110	77–87
<b>E-3</b>	.094	87–100
<b>W-0</b>	.110	77–87
<b>W-1</b>	.094	87–100
<b>W-2</b>	.082	100–112
<b>F-0</b>	.094	87–100
<b>F-1</b>	.082	100–112
<b>F-2</b>	.075	112–125
<b>F-3</b>	.067	125–140
<b>D-0</b>	.082	100–112
<b>D-1</b>	.075	112–125
<b>D-2</b>	.067	125–140
<b>D-3</b>	.059	140–160
<b>G-0</b>	.067	125–140
<b>G-1</b>	.059	140–220

TECHNICAL SPECIFICATIONS											
(TYPICAL)											
Model No.	284Ku	284K	284A	284B	284U	284V	284E	284W	284F	284D	284G
<b>Frequency Band (GHz)</b>	26.5–40	18.0–26.5	26.5–40.0	33.0–50.0	40.0–60.0	50.0–75.0	60.0–90.0	75.0–110.0	90.0–140.0	110.0–170.0	140.0–220.0
<b>Waveguide Type</b>	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6	WR-5
<b>VSWR Max.</b>	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15