

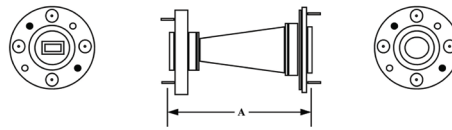
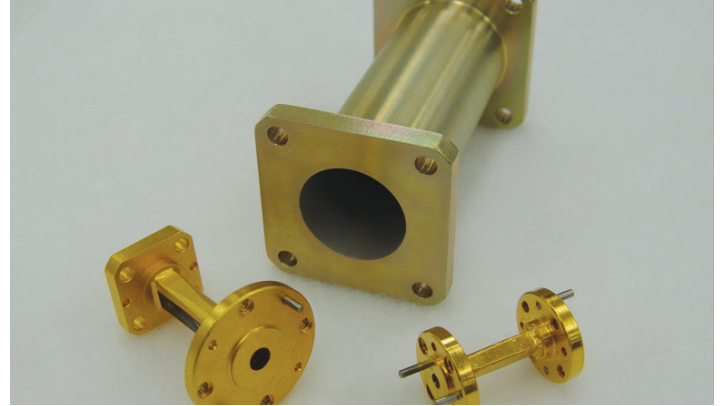
Description

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*

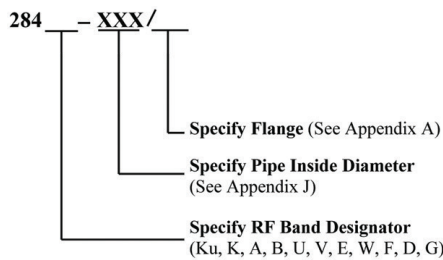
Applications

Antenna Systems
 Orthomode Transducers
 Polarization for Antennas



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

Ordering Information



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

TECHNICAL SPECIFICATIONS											
(TYPICAL)											
Model No.	284Ku	284K	284A	284B	284U	284V	284E	284W	284F	284D	284G
Frequency Band (GHz)	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
Waveguide Type	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6	WR-5
VSWR Max.	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15