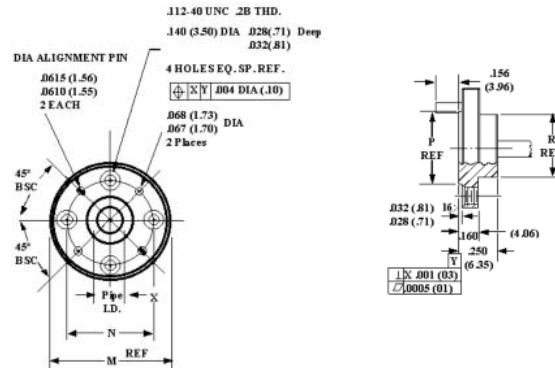


Appendix J Circular Waveguide Sizes



Band	Internal Diameter (inch)	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
B-1	.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	68 - 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

Band	M +.000/.002 (.05)	N BSC	P +.005 (.13)	R +.005 (.13)	Flange Designation
Ku	1.44 (36.58)	1.250 (28.6)	.967 (24.6)	.967 (24.6)	
K	1.125 (28.58)	.9375 (23.8)	.625 (15.88)	.625 (15.88)	UG-425/U
Ka	1.125 (28.58)	.9375 (23.81)	.500 (12.70)	.468 (11.89)	UG-381/U
Q	1.125 (28.58)	.9375 (23.81)	.500 (12.70)	.468 (11.89)	UG-383/U
U	1.125 (28.58)	.9375 (23.81)	.500 (12.70)	.468 (11.89)	UG-385/U-M
V	.750 (19.05)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U
E	.750 (19.50)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U-M
W	.750 (19.50)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U-M
F	.750 (19.50)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U-M
D	.750 (19.50)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U-M
G	.750 (19.50)	.5625 (14.29)	.375 (9.53)	.312 (7.92)	UG-387/U-M

All dimensions in inch (mm)

Appendix K Circular Waveguide Sizes (Alternative Set)

Frequency Band	Frequency Range, GHz		Circular Waveguide Diameter, Inches(mm)
K	LOW	17-22	0.500(12.7)
	MID	21-27	0.396(10.1)
	HIGH	25-33	0.328(8.3)
Ka	LOW	25-33	0.328(8.3)
	HIGH	33-44	0.250(6.4)
Q	LOW	33-44	0.250(6.4)
	MID	38-50	0.219(5.6)
	HIGH	43-58	0.188(4.8)
U	LOW	38-50	0.219(5.6)
	MID	43-58	0.188(4.8)
	HIGH	58-77	0.141(3.6)
V	LOW	43-58	0.188(4.8)
	HIGH	58-77	0.141(3.6)
E	LOW	58-77	0.141(3.6)
	HIGH	75-100	0.109(2.8)
W	LOW	75-100	0.109(2.8)
	HIGH	88-116	0.094(2.4)
F	LOW	88-116	0.094(2.4)
	HIGH	110-146	0.075(1.9)
D	LOW	110-146	0.075(1.9)
	HIGH	140-185	0.059(1.5)
G	LOW	140-185	0.059(1.5)
	HIGH	183-240	0.046(1.2)