

# Waveguide Frequency Bands with Interior Dimensions

Frequency Band	Waveguide Standard	Frequency Limits (GHz)	Inside Dimensions (inches)	Inside Dimensions (mm)
	WR-2300	0.32 - 0.49	23.000 x 11.500	584.2 x 292.1
	WR-2100	0.35 - 0.53	21.000 x 10.500	533.4 x 266.7
	WR-1800	0.43 - 0.62	18.000 x 9.000	457.2 x 288.6
	WR-1500	0.49 - 0.74	15.000 x 7.500	381.0 x 190.5
	WR-1150	0.64 - 0.96	11.500 x 5.750	292.1 x 146.05
	WR-1000	0.75 - 1.1	9.975 x 4.875	253.365 x 126.6825
	WR-770	0.96 - 1.5	7.700 x 3.385	195.58 x 97.79
	WR-650	1.12 to 1.70	6.500 x 3.250	165.1 x 82.55
R band	WR-430	1.70 to 2.60	4.300 x 2.150	109.22 x 54.61
D band	WR-340	2.20 to 3.30	3.400 x 1.700	86.36 x 43.18
S band	WR-284	2.60 to 3.95	2.840 x 1.340	72.136 x 34.036
E band	WR-229	3.30 to 4.90	2.290 x 1.150	58.166 x 29.21
G band	WR-187	3.95 to 5.85	1.872 x 0.872	47.5488 x 22.1488
F band	WR-159	4.90 to 7.05	1.590 x 0.795	40.386 x 20.193
C band	WR-137	5.85 to 8.20	1.372 x 0.622	34.8488 x 15.7988
H band	WR-112	7.05 to 10.00	1.122 x 0.497	28.4988 x 12.6238
X band	WR-90	8.2 to 12.4	0.900 x 0.400	22.86 x 10.16
X-Ku band	WR-75	10.0 to 15.0	0.750 x 0.375	19.05 x 9.525
Ku band	WR-62	12.4 to 18.0	0.622 x 0.311	15.7988 x 7.8994
K band	WR-51	15.0 to 22.0	0.510 x 0.255	12.954 x 6.477
K band	WR-42	18.0 to 26.5	0.420 x 0.170	10.668 x 4.318
Ka band	WR-28	26.5 to 40.0	0.280 x 0.140	7.112 x 3.556
Q band	WR-22	33 to 50	0.224 x 0.112	5.6896 x 2.8448
U band	WR-19	40 to 60	0.188 x 0.094	4.7752 x 2.3876
V band	WR-15	50 to 75	0.148 x 0.074	3.7592 x 1.8796
E band	WR-12	60 to 90	0.122 x 0.061	3.0988 x 1.5494
W band	WR-10	75 to 110	0.100 x 0.050	2.54 x 1.27
F band	WR-8	90 to 140	0.080 x 0.040	2.032 x 1.016
D band	WR-6	110 to 170	0.0650 x 0.0325	1.651 x 0.8255
G band	WR-5	140 to 220	0.0510 x 0.0255	1.2954 x 0.6477
	WR-4	170 to 260	0.0430 x 0.0215	1.0922 x 0.5461
	WR-3	220 to 325	0.0340 x 0.0170	0.8636 x 0.4318
Y-band	WR-2	325 to 500	0.0200 x 0.0100	0.508 x 0.254
	WR-1.5	500 to 750	0.0150 x 0.0075	0.381 x 0.1905
	WR-1	750 to 1100	0.0100 x 0.0050	0.254 x 0.127