

WAVEGUIDE DIMENSION and FREQUENCY CHART

The following table shows standard USA Waveguide sizes with their Pertinent Mechanical and Electrical Parameters. You can print this page for reference.

WR-(size)	START Frequency, (Ghz)	STOP Frequency (Ghz)	CUTOFF Frequency, (Ghz)	Inside Dimension "a" (in.)	Inside Dimension "b" (in.)	Tolerance: ± (in)	Wall Thickness (in.)
1500	.490	.750	0.393	15.000	7.500	.015	0.125
975	.750	1.12	0.605	9.750	4.875	.010	.125
770	.960	1.46	0.766	7.700	3.850	.010	.125
650	1.120	1.70	0.908	6.500	3.250	.010	.080
510	1.45	2.20	1.157	5.100	2.550	.010	.080
430	1.70	2.60	1.372	4.300	2.150	.008	.080
340	2.20	3.30	1.736	3.400	1.700	.005	.080
284	2.60	3.95	2.078	2.840	1.340	.005	.080
229	3.30	4.90	2.577	2.290	1.145	.005	.064
187	3.95	5.85	3.152	1.872	0.872	.005	.064
159	4.90	7.05	3.711	1.590	0.795	.004	.064
137	5.85	8.20	4.301	1.372	0.622	.004	.064
112	7.05	10.00	5.259	1.122	0.497	.004	.064
102	7.00	11.00	5.785	1.020	0.510	.003	.064
90	8.20	12.40	6.557	.900	.400	.003	.050
75	10.00	15.00	7.868	.750	.375	.003	.050
62	12.40	18.00	9.486	.622	.311	.002	.040
51	15.00	22.00	11.574	.510	.255	.002	.040
42	18.00	26.50	14.047	.420	.170	.002	.040
34	22.00	33.00	17.328	.340	.170	.002	.040
28	26.50	40.00	21.08	.280	.140	.002	.040
22	33.00	50.00	26.34	.224	.112	.001	.040
19	40.00	60.00	31.36	.188	.094	.001	.040
15	50.00	75.00	39.86	.148	.074	.001	.040
12	60.00	90.00	48.35	.122	.061	.0005	.040
10	75.00	110.00	59.01	.100	.050	.0005	.040
8	90.00	140.00	73.60	.0800	.0400	.0003	.020
7	110.00	170.00	90.90	.0650	.0325	.0002	.020
5	140.00	220.00	115.7	.0510	.0255	.0002	.020

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