

Information on some popular waveguide sizes

by David Adamson and Nick M. Ridler

National Physical Laboratory

The table below contains some information which we often find we need to access during our everyday laboratory investigations. To the best of our knowledge, this information is correct. However, there may be minor discrepancies in some of the values due to differences in some manufacturers' specifications.

Frequency range (GHz)	Cut-off frequency (GHz)	Waveguide designations		
2.60 - 3.95	2.078	R 32	WG 10	WR 284
3.95 - 5.85	3.152	R 48	WG 12	WR 187
5.85 - 8.20	4.301	R 70	WG 14	WR 137
8.20 - 12.4	6.557	R 100	WG 16	WR 90
12.4 - 18.0	9.486	R 140	WG 18	WR 62
18.0 - 26.5	14.047	R 220	WG 20	WR 42
26.5 - 40.0	21.081	R 320	WG 22	WR 28
33.0 - 50.0	26.341	R 400	WG 23	WR 22
50.0 - 75.0	39.863	R 620	WG 25	WR 15
75.0 - 110	59.010	R 900	WG 27	WR 10