

Wavelength Table

Wavelength (λ) = Speed of light (m/s) / Frequency (Hz)

Frequency	λ (mm)	λ (in)	1/4 λ (mm)	1/4 λ (in)	1/20 λ (mm)	1/20 λ (in)	1/50 λ (mm)	1/50 λ (in)
1 MHz	299,792	11,803	74,948	2,951	14,990	590	5,996	236
10 MHz	29,979	1,180	7,495	295	1,499	59	600	24
50 MHz	5,996	236	1,499	59	300	12	120	5
100 MHz	2,998	118	749	30	150	6	60	2
200 MHz	1,499	59.0	374.7	14.8	74.9	3.0	30.0	1.2
300 MHz	999	39.3	249.8	9.8	50.0	2.0	20.0	0.8
400 MHz	749	29.5	187.4	7.4	37.5	1.5	15.0	0.6
500 MHz	600	23.6	149.9	5.9	30.0	1.2	12.0	0.5
600 MHz	500	19.7	124.9	4.9	25.0	1.0	10.0	0.4
700 MHz	428	16.9	107.1	4.22	21.4	0.84	8.6	0.34
800 MHz	375	14.8	93.7	3.69	18.7	0.74	7.5	0.30
900 MHz	333	13.1	83.3	3.28	16.7	0.66	6.7	0.26
1.0 GHz	300	11.8	74.9	2.95	15.0	0.59	6.0	0.24
1.2 GHz	250	9.8	62.5	2.46	12.5	0.49	5.0	0.20
1.4 GHz	214	8.4	53.5	2.11	10.7	0.42	4.3	0.17
1.6 GHz	187	7.4	46.8	1.84	9.4	0.37	3.7	0.15
1.8 GHz	167	6.6	41.6	1.64	8.3	0.33	3.3	0.13
2.0 GHz	150	5.9	37.5	1.48	7.5	0.30	3.0	0.12
2.5 GHz	120	4.7	30.0	1.18	6.0	0.24	2.4	0.09
3.0 GHz	100	3.9	25.0	0.98	5.0	0.20	2.0	0.08
3.5 GHz	86	3.4	21.4	0.84	4.3	0.17	1.7	0.07
4.0 GHz	75	3.0	18.7	0.74	3.7	0.15	1.5	0.06
4.5 GHz	67	2.6	16.7	0.66	3.3	0.13	1.3	0.05
5.0 GHz	60	2.4	15.0	0.59	3.0	0.118	1.2	0.047
10 GHz	30	1.2	7.5	0.30	1.5	0.059	0.6	0.024
20 GHz	15	0.6	3.7	0.15	0.7	0.030	0.3	0.012
30 GHz	10	0.4	2.5	0.10	0.5	0.020	0.2	0.008
40 GHz	7	0.3	1.9	0.07	0.4	0.015	0.1	0.006