

## VOLTAGE RATIO TABLE

In the Voltage Table, decibels are converted to voltage loss, to the left of the decibel figure; and voltage gain, to the right. For example, to ascertain the gain at 13.5 db, read the figure on the right of the 13.5 listing. The gain would be 4.732 db.

The table repeats every 20 decibels. For readings between 20 and 40 db, subtract 20 db from the total, and move the decimal point one digit to the right for voltage gain; or one decimal to the left for voltage loss. For example, to ascertain the gain at 33.5 db, subtract 20 db from that figure (33.5 db) to obtain the 13.5 ratio and a reading of 4.732 db. Move the decimal point one digit to the right to ascertain the correct reading of 47.32 db for 33.5 db.

NOTE: Only voltage readings taken across identical impedances provide usable ratios.

Voltage Loss	Decibels	Voltage Gain	Voltage Loss	Decibels	Voltage Gain	Voltage Loss	Decibels	Voltage Gain	Voltage Loss	Decibels	Voltage Gain
$\frac{1}{K}$		K	$\frac{1}{K}$		K	$\frac{1}{K}$		K	$\frac{1}{K}$		K
1.0000	.0	1.000	.5623	5.0	1.778	.3162	10.0	3.162	.1178	15.0	5.623
.9886	.1	1.012	.5559	.1	1.799	.3128	.1	3.199	.1758	.1	5.689
.9772	.2	1.023	.5495	.2	1.820	.3090	.2	3.236	.1738	.2	5.754
.9661	.3	1.035	.5433	.3	1.841	.3055	.3	3.273	.1718	.3	5.821
.9550	.4	1.047	.5370	.4	1.862	.3020	.4	3.311	.1698	.4	5.888
.9441	.5	1.059	.5309	.5	1.884	.2985	.5	3.350	.1679	.5	5.957
.9333	.6	1.072	.5248	.6	1.905	.2951	.6	3.388	.1660	.6	6.026
.9226	.7	1.084	.5188	.7	1.928	.2917	.7	3.428	.1641	.7	6.095
.9120	.8	1.096	.5129	.8	1.950	.2884	.8	3.467	.1622	.8	6.166
.9061	.9	1.109	.5070	.9	1.972	.2851	.9	3.508	.1600	.9	6.237
.8913	1.0	1.122	.5012	6.0	1.905	.2818	11.0	3.548	.1585	16.0	6.210
.8810	.1	1.135	.4955	.1	2.018	.2786	.1	3.589	.1567	.1	6.383
.8710	.2	1.148	.4898	.2	2.042	.2754	.2	3.631	.1549	.2	6.457
.8610	.3	1.161	.4842	.3	2.065	.2723	.3	3.673	.1531	.3	6.531
.8511	.4	1.175	.4786	.4	2.080	.2692	.4	3.715	.1514	.4	6.607
.8414	.5	1.189	.4732	.5	2.113	.2661	.5	3.758	.1496	.5	6.683
.8318	.6	1.202	.4677	.6	2.138	.2630	.6	3.802	.1479	.6	6.761
.8222	.7	1.216	.4624	.7	2.163	.2600	.7	3.846	.1462	.7	6.839
.8128	.8	1.230	.4571	.8	2.188	.2570	.8	3.890	.1445	.8	6.918
.8035	.9	1.245	.4519	.9	2.213	.2541	.9	3.936	.1429	.9	6.998
.7943	2.0	1.259	.4467	7.0	2.239	.2512	12.0	3.981	.1413	17.0	7.079
.7852	.1	1.274	.4416	.1	2.265	.2483	.1	4.027	.1396	.1	7.161
.7762	.2	1.288	.4365	.2	2.291	.2455	.2	4.074	.1380	.2	7.244
.7674	.3	1.303	.4315	.3	2.317	.2427	.3	4.121	.1365	.3	7.328
.7586	.4	1.318	.4266	.4	2.344	.2399	.4	4.169	.1349	.4	7.413
.7499	.5	1.334	.4217	.5	2.371	.2371	.5	4.217	.1334	.5	7.499
.7413	.6	1.349	.4169	.6	2.399	.2344	.6	4.266	.1318	.6	7.586
.7328	.7	1.365	.4121	.7	2.427	.2317	.7	4.315	.1303	.7	7.674
.7244	.8	1.380	.4074	.8	2.455	.2291	.8	4.365	.1288	.8	7.762
.7161	.9	1.396	.4027	.9	2.483	.2265	.9	4.416	.1274	.9	7.852
.7079	3.0	1.413	.3981	8.0	2.512	.2239	13.0	4.467	.1259	18.0	7.943
.6998	.1	1.429	.3936	.1	2.541	.2213	.1	4.519	.1245	.1	8.035
.6918	.2	1.445	.3890	.2	2.570	.2188	.2	4.571	.1230	.2	8.128
.6839	.3	1.462	.3846	.3	2.600	.2163	.3	4.624	.1216	.3	8.222
.6761	.4	1.479	.3802	.4	2.630	.2138	.4	4.677	.1202	.4	8.318
.6683	.5	1.496	.3758	.5	2.661	.2113	.5	4.732	.1189	.5	8.414
.6607	.6	1.514	.3715	.6	2.692	.2089	.6	4.786	.1175	.6	8.511
.6531	.7	1.531	.3673	.7	2.723	.2065	.7	4.842	.1161	.7	8.610
.6457	.8	1.549	.3631	.8	2.754	.2042	.8	4.898	.1148	.8	8.710
.6383	.9	1.567	.3589	.9	2.786	.2018	.9	4.959	.1135	.9	8.811
.6310	4.0	1.585	.3548	9.0	2.818	.1995	14.0	5.012	.1122	19.0	8.913
.6237	.1	1.603	.3508	.1	2.851	.1972	.1	5.070	.1109	.1	9.016
.6166	.2	1.622	.3467	.2	2.884	.1950	.2	5.129	.1096	.2	9.120
.6095	.3	1.641	.3428	.3	2.917	.1928	.3	5.188	.1084	.3	9.226
.6026	.4	1.660	.3388	.4	2.951	.1905	.4	5.248	.1072	.4	9.333
.5957	.5	1.679	.3350	.5	2.985	.1884	.5	5.309	.1059	.5	9.441
.5888	.6	1.698	.3311	.6	3.020	.1862	.6	5.370	.1047	.6	9.550
.5821	.7	1.718	.3273	.7	3.055	.1841	.7	5.433	.1035	.7	9.661
.5754	.8	1.738	.3236	.8	2.090	.1820	.8	5.495	.1023	.8	9.772
.5689	.9	1.758	.3199	.9	3.126	.1799	.9	5.559	.1012	.9	9.886
									.1000	20.0	10.000