



## DECIBEL TABLE

Note: Adding db is equivalent to multiplying ratios.  $db_1 + db_2 \rightarrow (ratio)_1 \times (ratio)_2$

Voltage Ratio*	Power Ratio	db + →	Voltage Ratio*	Power Ratio	Voltage Ratio*	Power Ratio	db + →	Voltage Ratio*	Power Ratio
1.000	1.000	0	1.000	1.000	0.376	0.141	8.5	2.661	7.079
0.989	0.977	0.1	1.012	1.023	0.355	0.126	9.0	2.818	7.943
0.977	0.955	0.2	1.023	1.047	0.335	0.112	9.5	2.985	8.913
0.966	0.933	0.3	1.035	1.072	0.316	0.100	10	3.162	10.00
0.955	0.912	0.4	1.047	1.096	0.282	0.0794	11	3.55	12.6
0.944	0.891	0.5	1.059	1.122	0.251	0.0631	12	3.98	15.9
0.933	0.871	0.6	1.072	1.148	0.224	0.0501	13	4.47	20.0
0.923	0.851	0.7	1.084	1.175	0.200	0.0398	14	5.01	25.1
0.912	0.832	0.8	1.096	1.202	0.178	0.0316	15	5.62	31.6
0.902	0.813	0.9	1.109	1.230	0.159	0.0251	16	6.31	39.8
0.891	0.794	1.0	1.122	1.259	0.141	0.0200	17	7.08	50.1
0.841	0.708	1.5	1.189	1.413	0.126	0.0159	18	7.94	63.1
0.794	0.631	2.0	1.259	1.585	0.122	0.0126	19	8.91	79.4
0.750	0.562	2.5	1.334	1.778	0.100	0.0100	20	10.00	100.
0.708	0.501	3.0	1.413	1.995	$3.16 \times 10^{-2}$	$10^{-3}$	30	$3.16 \times 10$	$10^3$
0.668	0.447	3.5	1.496	2.239	$10^{-2}$	$10^{-4}$	40	$10^2$	$10^4$
0.631	0.398	4.0	1.585	2.512	$3.16 \times 10^{-3}$	$10^{-5}$	50	$3.16 \times 10^2$	$10^5$
0.596	0.355	4.5	1.679	2.818	$10^{-3}$	$10^{-6}$	60	$10^3$	$10^6$
0.562	0.316	5.0	1.778	3.162	$3.16 \times 10^{-4}$	$10^{-7}$	70	$3.16 \times 10^3$	$10^7$
0.531	0.282	5.5	1.884	3.548	$10^{-4}$	$10^{-8}$	80	$10^4$	$10^8$
0.501	0.251	6.0	1.995	3.981	$3.16 \times 10^{-5}$	$10^{-9}$	90	$3.16 \times 10^4$	$10^9$
0.473	0.224	6.5	2.113	4.467	$10^{-5}$	$10^{-10}$	100	$10^5$	$10^{10}$
0.447	0.200	7.0	2.239	5.012	$3.16 \times 10^{-6}$	$10^{-11}$	110	$3.16 \times 10^5$	$10^{11}$
0.422	0.178	7.5	2.371	5.623	$10^{-6}$	$10^{-12}$	120	$10^6$	$10^{12}$
0.398	0.159	8.0	2.512	6.310					

\*Across equal impedances.

Submitted by Jim Hoffswell.