

Table of Conversions

The following table lists the conversions between voltage and power measurements for the range of signal levels commonly encountered in Broadband networks. The equations described on pages 87, 88 and 89 were used in the compilation of this table.

mV	dBmV	dB μ V	dBm	mV	dBmV	dB μ V	dBm
0.0010	-60	0	-108.75	0.0447	-27	33	-75.75
0.0011	-59	1	-107.75	0.0501	-26	34	-74.75
0.0013	-58	2	-106.75	0.0562	-25	35	-73.75
0.0014	-57	3	-105.75	0.0631	-24	36	-72.75
0.0016	-56	4	-104.75	0.0708	-23	37	-71.75
0.0018	-55	5	-103.75	0.0794	-22	38	-70.75
0.0020	-54	6	-102.75	0.0891	-21	39	-69.75
0.0022	-53	7	-101.75	0.1000	-20	40	-68.75
0.0025	-52	8	-100.75	0.1122	-19	41	-67.75
0.0028	-51	9	-99.75	0.1259	-18	42	-66.75
0.0032	-50	10	-98.75	0.1413	-17	43	-65.75
0.0035	-49	11	-97.75	0.1585	-16	44	-64.75
0.0040	-48	12	-96.75	0.1778	-15	45	-63.75
0.0045	-47	13	-95.75	0.1995	-14	46	-62.75
0.0050	-46	14	-94.75	0.2239	-13	47	-61.75
0.0056	-45	15	-93.75	0.2512	-12	48	-60.75
0.0063	-44	16	-92.75	0.2818	-11	49	-59.75
0.0071	-43	17	-91.75	0.3162	-10	50	-58.75
0.0079	-42	18	-90.75	0.3548	-9	51	-57.75
0.0089	-41	19	-89.75	0.3981	-8	52	-56.75
0.0100	-40	20	-88.75	0.4467	-7	53	-55.75
0.0112	-39	21	-87.75	0.5012	-6	54	-54.75
0.0126	-38	22	-86.75	0.5623	-5	55	-53.75
0.0141	-37	23	-85.75	0.6310	-4	56	-52.75
0.0158	-36	24	-84.75	0.7079	-3	57	-51.75
0.0178	-35	25	-83.75	0.7943	-2	58	-50.75
0.0200	-34	26	-82.75	0.8913	-1	59	-49.75
0.0224	-33	27	-81.75	1.0000	0	60	-48.75
0.0251	-32	28	-80.75	1.1220	1	61	-47.75
0.0282	-31	29	-79.75	1.2589	2	62	-46.75
0.0316	-30	30	-78.75	1.4125	3	63	-45.75
0.0355	-29	31	-77.75	1.5849	4	64	-44.75
0.0398	-28	32	-76.75	1.7783	5	65	-43.75

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mV	dBmV	db μ V	dBm	mV	dBmV	db μ V	dBm
1.9953	6	66	-42.75	158.4893	44	104	-4.75
2.2387	7	67	-41.75	177.8279	45	105	-3.75
2.5119	8	68	-40.75	199.5262	46	106	-2.75
2.8184	9	69	-39.75	223.8721	47	107	-1.75
3.1623	10	70	-38.75	251.1886	48	108	-0.75
3.5481	11	71	-37.75	273.8420	48.75	108.75	0
3.9811	12	72	-36.75	281.8383	49	109	0.25
4.4668	13	73	-35.75	316.2278	50	110	1.25
5.0119	14	74	-34.75	354.8134	51	111	2.25
5.6234	15	75	-33.75	398.1072	52	112	3.25
6.3096	16	76	-32.75	446.6836	53	113	4.25
7.0795	17	77	-31.75	501.1872	54	114	5.25
7.9433	18	78	-30.75	562.3413	55	115	6.25
8.9125	19	79	-29.75	630.9573	56	116	7.25
10.0000	20	80	-28.75	707.9458	57	117	8.25
11.2202	21	81	-27.75	794.3282	58	118	9.25
12.5893	22	82	-26.75	891.2509	59	119	10.25
14.1254	23	83	-25.75	1000.0000	60	120	11.25
15.8489	24	84	-24.75	1122.0185	61	121	12.25
17.7828	25	85	-23.75	1258.9254	62	122	13.25
19.9526	26	86	-22.75	1412.5375	63	123	14.25
22.3872	27	87	-21.75	1584.8932	64	124	15.25
25.1189	28	88	-20.75	1778.2794	65	125	16.25
28.1838	29	89	-19.75	1995.2623	66	126	17.25
31.6228	30	90	-18.75	2238.7211	67	127	18.25
35.4813	31	91	-17.75	2511.8864	68	128	19.25
39.8107	32	92	-16.75	2818.3829	69	129	20.25
44.6684	33	93	-15.75	3162.2777	70	130	21.25
50.1187	34	94	-14.75	3548.1339	71	131	22.25
56.2341	35	95	-13.75	3981.0717	72	132	23.25
63.0957	36	96	-12.75	4466.8359	73	133	24.25
70.7946	37	97	-11.75	5011.8723	74	134	25.25
79.4328	38	98	-10.75	5623.4133	75	135	26.25
89.1251	39	99	-9.75	6309.5734	76	136	27.25
100.0000	40	100	-8.75	7079.4578	77	137	28.25
112.2018	41	101	-7.75	7943.2823	78	138	29.25
125.8925	42	102	-6.75	8912.5094	79	139	30.25
141.2538	43	103	-5.75	10000.0000	80	140	31.25