dBm – Watts 변환표

고주파회로 설계 등에서는 전력의 표현에 "dBm"이나 "watts"를 널리 사용한다.
dBm이란 mW 기준의 절대값 표현으로 0dBm=1mW이다. 변환식은, dBm=10log10 (mW) 이다.
몇몇 값은 기억해 두면 편리하다.
예를 들어, 0dBm=1mW, 10dBm=10mW, 20dBm=100mW, 30dBm=1W, 40dBm=10W 이다.

dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	W	dBm	W
0	1	5	3.16	10	10	15	31.6	20	100	25	316	30	1	35	3.16
0.1	1.02	5.1	3.24	10.1	10.2	15.1	32.4	20.1	102	25.1	324	30.1	1.02	35.1	3.24
0.2	1.05	5.2	3.31	10.2	10.5	15.2	33.1	20.2	105	25.2	331	30.2	1.05	35.2	3.31
0.3	1.07	5.3	3.39	10.3	10.7	15.3	33.9	20.3	107	25.3	339	30.3	1.07	35.3	3.39
0.4	1.1	5.4	3.47	10.4	11	15.4	34.7	20.4	110	25.4	347	30.4	1.1	35.4	3.47
0.5	1.12	5.5	3.55	10.5	11.2	15.5	35.5	20.5	112	25.5	355	30.5	1.12	35.5	3.55
0.6	1.15	5.6	3.63	10.6	11.5	15.6	36.3	20.6	115	25.6	363	30.6	1.15	35.6	3.63
0.7	1.17	5.7	3.72	10.7	11.7	15.7	37.2	20.7	117	25.7	372	30.7	1.17	35.7	3.72
0.8	1.2	5.8	3.8	10.8	12	15.8	38	20.8	120	25.8	380	30.8	1.2	35.8	3.8
0.9	1.23	5.9	3.89	10.9	12.3	15.9	38.9	20.9	123	25.9	389	30.9	1.23	35.9	3.89
1	1.26	6	3.98	11	12.6	16	39.8	21	126	26	398	31	1.26	36	3.98
1.1	1.29	6.1	4.07	11.1	12.9	16.1	40.7	21.1	129	26.1	407	31.1	1.29	36.1	4.07
1.2	1.32	6.2	4.17	11.2	13.2	16.2	41.7	21.2	132	26.2	417	31.2	1.32	36.2	4.17
1.3	1.35	6.3	4.27	11.3	13.5	16.3	42.7	21.3	135	26.3	427	31.3	1.35	36.3	4.27
1.4	1.38	6.4	4.37	11.4	13.8	16.4	43.7	21.4	138	26.4	437	31.4	1.38	36.4	4.37
1.5	1.41	6.5	4.47	11.5	14.1	16.5	44.7	21.5	141	26.5	447	31.5	1.41	36.5	4.47
1.6	1.45	6.6	4.57	11.6	14.5	16.6	45.7	21.6	145	26.6	457	31.6	1.45	36.6	4.57
1.7	1.48	6.7	4.68	11.7	14.8	16.7	46.8	21.7	148	26.7	468	31.7	1.48	36.7	4.68
1.8	1.51	6.8	4.79	11.8	15.1	16.8	47.9	21.8	151	26.8	479	31.8	1.51	36.8	4.79
1.9	1.55	6.9	4.9	11.9	15.5	16.9	49	21.9	155	26.9	490	31.9	1.55	36.9	4.9
2	1.58	7	5.01	12	15.8	17	50.1	22	158	27	501	32	1.58	37	5.01
2.1	1.62	7.1	5.13	12.1	16.2	17.1	51.3	22.1	162	27.1	513	32.1	1.62	37.1	5.13
2.2	1.66	7.2	5.25	12.2	16.6	17.2	52.5	22.2	166	27.2	525	32.2	1.66	37.2	5.25
2.3	1.7	7.3	5.37	12.3	17	17.3	53.7	22.3	170	27.3	537	32.3	1.7	37.3	5.37
2.4	1.74	7.4	5.5	12.4	17.4	17.4	55	22.4	174	27.4	550	32.4	1.74	37.4	5.5
2.5	1.78	7.5	5.62	12.5	17.8	17.5	56.2	22.5	178	27.5	562	32.5	1.78	37.5	5.62
2.6	1.82	7.6	5.75	12.6	18.2	17.6	57.5	22.6	182	27.6	575	32.6	1.82	37.6	5.75
2.7	1.86	7.7	5.89	12.7	18.6	17.7	58.9	22.7	186	27.7	589	32.7	1.86	37.7	5.89
2.8	1.91	7.8	6.03	12.8	19.1	17.8	60.3	22.8	191	27.8	603	32.8	1.91	37.8	6.03
2.9	1.95	7.9	6.17	12.9	19.5	17.9	61.7	22.9	195	27.9	617	32.9	1.95	37.9	6.17
3	2	8	6.31	13	20	18	63.1	23	200	28	631	33	2	38	6.31
3.1	2.04	8.1	6.46	13.1	20.4	18.1	64.6	23.1	204	28.1	646	33.1	2.04	38.1	6.46
3.2	2.09	8.2	6.61	13.2	20.9	18.2	66.1	23.2	209	28.2	661	33.2	2.09	38.2	6.61
3.3	2.14	8.3	6.76	13.3	21.4	18.3	67.6	23.3	214	28.3	676	33.3	2.14	38.3	6.76
3.4	2.19	8.4	6.92	13.4	21.9	18.4	69.2	23.4	219	28.4	692	33.4	2.19	38.4	6.92
3.5	2.24	8.5	7.08	13.5	22.4	18.5	70.8	23.5	224	28.5	708	33.5	2.24	38.5	7.08
3.6	2.29	8.6	7.24	13.6	22.9	18.6	72.4	23.6	229	28.6	724	33.6	2.29	38.6	7.24
3.7	2.34	8.7	7.41	13.7	23.4	18.7	74.1	23.7	234	28.7	741	33.7	2.34	38.7	7.41
3.8	2.4	8.8	7.59	13.8	24	18.8	75.9	23.8	240	28.8	759	33.8	2.4	38.8	7.59
3.9	2.45	8.9	7.76	13.9	24.5	18.9	77.6	23.9	245	28.9	776	33.9	2.45	38.9	7.76
4	2.51	9	7.94	14	25.1	19	79.4	24	251	29	794	34	2.51	39	7.94
4.1	2.57	9.1	8.13	14.1	25.7	19.1	81.3	24.1	257	29.1	813	34.1	2.57	39.1	8.13
4.2	2.63	9.2	8.32	14.2	26.3	19.2	83.2	24.2	263	29.2	832	34.2	2.63	39.2	8.32
4.3	2.69	9.3	8.51	14.3	26.9	19.3	85.1	24.3	269	29.3	851	34.3	2.69	39.3	8.51
4.4	2.75	9.4	8.71	14.4	27.5	19.4	87.1	24.4	275	29.4	871	34.4	2.75	39.4	8.71
4.5	2.82	9.5	8.91	14.5	28.2	19.5	89.1	24.5	282	29.5	891	34.5	2.82	39.5	8.91
4.6	2.88	9.6	9.12	14.6	28.8	19.6	91.2	24.6	288	29.6	912	34.6	2.88	39.6	9.12
4.7	2.95	9.7	9.33	14.7	29.5	19.7	93.3	24.7	295	29.7	933	34.7	2.95	39.7	9.33
4.8	3.02	9.8	9.55	14.8	30.2	19.8	95.5	24.8	302	29.8	955	34.8	3.02	39.8	9.55
4.9	3.09	9.9	9.77	14.9	30.9	19.9	97.7	24.9	309	29.9	977	34.9	3.09	39.9	9.77
dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	mW	dBm	W	dBm	W