

Resolution bits $n$	Number of states $2^n$		LSB weight $2^{-n}$	Dynamic range (dB)
0	1	1		0.0
1	2	0.5		6.0
2	4	0.25		12.0
3	8	0.125		18.1
4	16	0.0625		24.1
5	32	0.03125		30.1
6	64	0.015625		36.1
7	128	0.0078125		42.1
8	256	0.00390625		48.2
9	512	0.001953125		54.2
10	1024	0.0009765625		60.2
11	2048	0.00048828125		66.2
12	4096	0.000244140625		72.2
13	8192	0.0001220703125		78.3
14	16 384	0.00006103515625		84.3
15	32 768	0.000030517578125		90.3
16	65 536	0.0000152587890625		96.3
17	131 072	0.00000762939453125		102.3
18	262 144	0.000003814697265625		108.4
19	524 288	0.0000019073486328125		114.4
20	1 048 576	0.00000095367431640625		120.4