

NOTE	OCTAVE	IDEAL FREQUENCY	ACTUAL FREQUENCY	12-BIT REGISTER VALUE IN OCTAL	NOTE	OCTAVE	IDEAL FREQUENCY	ACTUAL FREQUENCY	12-BIT REGISTER VALUE IN OCTAL
C#	1	32.703	32.888	6 5 3 5	C	6	523.248	522.714	0 3 2 6
C#	1	34.648	34.653	6 2 3 4	C#	5	554.368	553.766	0 3 1 2
D	1	36.708	36.712	5 7 4 7	D	5	587.328	588.741	0 2 7 6
D#	1	38.891	38.895	5 4 7 4	D#	5	622.256	621.449	0 2 6 4
E	1	41.203	41.201	5 2 0 3	E	5	658.248	658.005	0 2 5 2
E#	1	43.654	43.662	5 0 0 2	F	5	698.464	698.130	0 2 4 0
F#	1	46.249	46.243	4 5 6 3	F#	5	739.984	740.800	0 2 2 7
G	1	48.999	48.997	4 3 5 3	G	5	783.984	782.243	0 2 1 7
G#	1	51.913	51.908	4 1 5 3	G#	5	830.608	828.598	0 2 0 7
A	1	55.000	54.995	3 7 6 2	A	5	880.000	880.794	0 1 7 7
A#	1	58.270	58.261	3 6 0 0	A#	5	932.320	932.173	0 1 7 0
B	1	61.735	61.733	3 4 2 4	B	5	987.760	989.918	0 1 6 1
B#	1	65.406	65.416	3 2 5 6	B#	5	1046.496	1045.428	0 1 5 3
C#	2	69.296	69.307	3 1 1 6	C#	6	1108.736	1107.532	0 1 4 5
D	2	73.416	73.399	2 7 6 4	D	6	1174.856	1177.482	0 1 3 7
D#	2	77.782	77.789	2 6 3 6	D#	6	1244.512	1242.898	0 1 3 2
E	2	82.406	82.432	2 5 1 5	E	6	1318.496	1316.009	0 1 2 5
E#	2	87.308	87.323	2 4 0 1	F	6	1398.828	1398.260	0 1 2 0
F#	2	92.498	92.523	2 2 7 1	F#	6	1479.968	1471.852	0 1 1 4
G	2	97.998	98.037	2 1 6 5	G	6	1567.968	1575.504	0 1 0 7
G#	2	103.826	103.863	2 0 6 5	G#	6	1661.216	1669.564	0 1 0 3
A	2	110.000	109.991	1 7 7 1	A	6	1760.000	1747.825	0 1 0 0
A#	2	116.540	116.522	1 6 1 0	A#	6	1864.346	1864.346	0 0 7 4
B	2	123.470	123.467	1 5 2 2	B	6	1975.520	1962.470	0 0 7 1
B#	2	130.812	130.831	1 4 4 7	B#	6	2092.992	2110.561	0 0 6 5
C#	3	138.592	138.613	1 3 7 2	C#	7	2217.472	2237.216	0 0 6 2
D	3	146.832	146.799	1 3 1 7	D	7	2349.312	2330.433	0 0 6 0
D#	3	155.564	155.578	1 2 4 7	D#	7	2489.024	2485.795	0 0 5 5
E	3	164.812	164.743	1 2 0 1	E	7	2636.992	2663.352	0 0 5 2
E#	3	174.616	174.510	1 1 3 5	E#	7	2793.856	2796.520	0 0 5 0
F#	3	184.996	184.894	1 1 0 7	F#	7	2959.936	2943.705	0 0 4 6
G	3	195.996	195.903	1 0 7 3	G	7	3135.936	3107.244	0 0 4 2
G#	3	207.652	207.534	1 0 3 3	G#	7	3322.432	3290.023	0 0 4 4
A	3	220.000	220.198	0 7 7 4	A	7	3520.000	3495.649	0 0 4 0
A#	3	233.080	233.043	0 7 4 0	A#	7	3729.280	3728.693	0 0 3 6
B	3	246.940	246.933	0 6 5 5	B	7	3951.040	3995.028	0 0 3 4
B#	3	261.624	261.357	0 6 0 4	B#	7	4185.984	4142.992	0 0 3 3
C#	4	277.184	276.883	0 6 2 4	C#	8	4434.944	4474.431	0 0 3 1
D	4	293.664	293.598	0 5 7 5	D	8	4698.624	4660.866	0 0 3 0
D#	4	311.128	310.724	0 5 5 0	D#	8	4978.048	5084.581	0 0 2 6
E	4	329.624	329.873	0 5 2 3	E	8	5273.984	5326.704	0 0 2 5
E#	4	349.232	349.565	0 5 0 0	E#	8	5587.712	5593.039	0 0 2 4
F#	4	369.992	370.400	0 4 5 6	F#	8	5919.872	5887.410	0 0 2 3
G	4	391.992	392.494	0 4 3 5	G	8	6271.872	6214.486	0 0 2 2
G#	4	415.304	415.639	0 4 1 5	G#	8	6644.864	6580.046	0 0 2 1
A	4	440.000	440.397	0 3 7 6	A	8	7040.000	6991.299	0 0 2 0
A#	4	466.160	466.087	0 3 6 0	A#	8	7458.560	7457.385	0 0 1 7
B	4	493.880	494.959	0 3 4 2	B	8	7902.080	7890.056	0 0 1 6

Fig. 23 EQUAL TEMPERED CHROMATIC SCALE (f<sub>clock</sub> = 1.78977MHz)