

AN1575

Worldwide Cordless Telephone Frequencies

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The following tables contain CT-1 USA and Asia Pacific (CT-0 Europe) frequencies for cordless telephone. These tables reference application information provided in MC13109, MC13110, and MC13111 Universal Cordless Telephone Subsystem Integrated Circuit technical data sheets. Channel number, T_x channel frequency, 1st LO frequency, and T_x and R_x divider values, for both handset

and base set, are listed in this addendum. The device data sheets can be found in Chapter 8 of the data book (DL128).

Note: USA cordless frequency band listed herein is specified in the Code of Federal Regulations (CFR), Title 47 (FCC Rules), Part 15, paragraph 15.233, dated June 5, 1995 (25 channel band).

CHANNEL FREQUENCIES

USA CT-1 BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T_x Channel Frequency (MHz)	T_x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R_x Divider (5.0 kHz Ref)
1	43.720	8744	38.065	7613
2	43.740	8748	38.145	7629
3	43.820	8764	38.165	7633
4	43.840	8768	38.225	7645
5	43.920	8784	38.325	7665
6	43.960	8792	38.385	7677
7	44.120	8824	38.405	7681
8	44.160	8832	38.465	7693
9	44.180	8836	38.505	7701
10	44.200	8840	38.545	7709
11	44.320	8864	38.585	7717
12	44.360	8872	38.665	7733
13	44.400	8880	38.705	7741
14	44.460	8892	38.765	7753
15	44.480	8896	38.805	7761
16	46.610	9322	38.975	7795
17	46.630	9326	39.150	7830
18	46.670	9334	39.165	7833
19	46.710	9342	39.075	7815
20	46.730	9346	39.180	7836
21	46.770	9354	39.135	7827
22	46.830	9366	39.195	7839
23	46.870	9374	39.235	7847
24	46.930	9386	39.295	7859
25	46.970	9394	39.275	7855

AN1575**USA CT-1 HANDSET CHANNEL FREQUENCIES** (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	48.760	9752	33.025	6605
2	48.840	9768	33.045	6609
3	48.860	9772	33.125	6625
4	48.920	9784	33.145	6629
5	49.020	9804	33.225	6645
6	49.080	9816	33.265	6653
7	49.100	9820	33.425	6685
8	49.160	9832	33.465	6693
9	49.200	9840	33.485	6697
10	49.240	9848	33.505	6701
11	49.280	9856	33.625	6725
12	49.360	9872	33.665	6733
13	49.400	9880	33.705	6741
14	49.460	9892	33.765	6753
15	49.500	9900	33.785	6757
16	49.670	9934	35.915	7183
17	49.845	9969	35.935	7187
18	49.860	9972	35.975	7195
19	49.770	9954	36.015	7203
20	49.875	9975	36.035	7207
21	49.830	9966	36.075	7215
22	49.890	9978	36.135	7227
23	49.930	9986	36.175	7235
24	49.990	9998	36.235	7247
25	49.970	9994	36.275	7255

SPAIN CT-1 BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	31.025	6205	29.230	5846
2	31.050	6210	29.255	5851
3	31.075	6215	29.280	5856
4	31.100	6220	29.305	5861
5	31.125	6225	29.330	5866
6	31.150	6230	29.355	5871
7	31.175	6235	29.380	5876
8	31.200	6240	29.405	5881
9	31.250	6250	29.455	5891
10	31.275	6255	29.480	5896
11	31.300	6260	29.505	5901
12	31.325	6265	29.530	5906

SPAIN CT-1 HANDSET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	39.925	7985	20.330	4066
2	39.950	7990	20.355	4071
3	39.975	7995	20.380	4076
4	40.000	8000	20.405	4081
5	40.025	8005	20.430	4086
6	40.050	8010	20.455	4091
7	40.075	8015	20.480	4096
8	40.100	8020	20.505	4101
9	40.150	8030	20.555	4111
10	40.175	8035	20.580	4116
11	40.200	8040	20.605	4121
12	40.225	8045	20.630	4126

AUSTRALIA CT-1 BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	30.075	6015	29.080	5816
2	30.125	6025	29.130	5826
3	30.175	6035	29.180	5836
4	30.225	6045	29.230	5846
5	30.275	6055	29.280	5856
6	30.100	6020	29.105	5821
7	30.150	6030	29.155	5831
8	30.200	6040	29.205	5841
9	30.250	6050	29.255	5851
10	30.300	6060	29.305	5861

AUSTRALIA CT-1 HANDSET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	39.775	7955	19.380	3876
2	39.825	7965	19.430	3886
3	39.875	7975	19.480	3896
4	39.925	7985	19.530	3906
5	39.975	7995	19.580	3916
6	39.800	7960	19.405	3881
7	39.850	7970	19.455	3891
8	39.900	7980	19.505	3901
9	39.950	7990	19.555	3911
10	40.000	8000	19.605	3921

KOREA CT-1 BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	46.610	9322	38.975	7795
2	46.630	9326	39.150	7830
3	46.670	9334	39.165	7833
4	46.710	9342	39.075	7815
5	46.730	9346	39.180	7836
6	46.770	9354	39.135	7827
7	46.830	9366	39.195	7839
8	46.870	9374	39.235	7847
9	46.930	9386	39.295	7859
10	46.970	9394	39.275	7855
11	46.510	9302	39.000	7800
12	46.530	9306	39.015	7803
13	46.550	9310	39.030	7806
14	46.570	9314	39.045	7809
15	46.590	9318	39.060	7812

KOREA CT-1 HANDSET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
1	49.670	9934	35.915	7183
2	49.845	9969	35.935	7187
3	49.860	9972	35.975	7195
4	49.770	9954	36.015	7203
5	49.875	9975	36.035	7207
6	49.830	9966	36.075	7215
7	49.890	9978	36.135	7227
8	49.930	9986	36.175	7235
9	49.990	9998	36.235	7247
10	49.970	9994	36.275	7255
11	49.695	9939	35.815	7163
12	49.710	9942	35.835	7167
13	49.725	9945	35.855	7171
14	49.740	9948	35.875	7175
15	49.755	9951	35.895	7179

NEW ZEALAND CT-1 BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
11	34.250	6850	29.555	5911
12	34.275	6855	29.580	5916
13	34.300	6860	29.605	5921
14	34.325	6865	29.630	5926
15	34.350	6870	29.655	5931
16	34.375	6875	29.680	5936
17	34.400	6880	29.705	5941
18	34.425	6885	29.730	5946
19	34.450	6890	29.755	5951
20	34.475	6895	29.780	5956

NEW ZEALAND CT-1 HANDSET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (5.0 kHz Ref)
11	40.250	8050	23.555	4711
12	40.275	8055	23.580	4716
13	40.300	8060	23.605	4721
14	40.325	8065	23.630	4726
15	40.350	8070	23.655	4731
16	40.375	8075	23.680	4736
17	40.400	8080	23.705	4741
18	40.425	8085	23.730	4746
19	40.450	8090	23.755	4751
20	40.475	8095	23.780	4756

U.K. BASESET CHANNEL FREQUENCIES (2nd LO = 11.150 MHz, Ref Divider = 446 + divide by 4/25)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (1.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.7 MHz	R _x Divider (6.25 kHz Ref)
1	1.642	1642	36.75625	5881
2	1.662	1662	36.76875	5883
3	1.682	1682	36.78125	5885
4	1.702	1702	36.79375	5887
5	1.722	1722	36.80625	5889
6	1.742	1742	36.81875	5891
7	1.762	1762	36.83125	5893
8	1.782	1782	36.84375	5895

U.K. HANDSET CHANNEL FREQUENCIES (2nd LO = 11.150 MHz, Ref Divider = 446 + divide by 4/25)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (6.25 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.7 MHz	R _x Divider (1.0 kHz Ref)
1	47.45625	7593	12.342	12342
2	47.46875	7595	12.362	12362
3	47.48125	7597	12.382	12382
4	47.49375	7599	12.402	12402
5	47.50625	7601	12.422	12422
6	47.51875	7603	12.442	12442
7	47.53125	7605	12.462	12462
8	47.54375	7607	12.482	12482

FRANCE BASESET CHANNEL FREQUENCIES (2nd LO = 11.150 MHz, Ref Divider = 1784)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (6.25 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.7 MHz	R _y Divider (6.25 kHz Ref)
1	26.3125	4210	30.6125	4898
2	26.3250	4212	30.6250	4900
3	26.3375	4214	30.6375	4902
4	26.3500	4216	30.6500	4904
5	26.3625	4218	30.6625	4906
6	26.3750	4220	30.6750	4908
7	26.3875	4222	30.6875	4910
8	26.4000	4224	30.7000	4912
9	26.4125	4226	30.7125	4914
10	26.4250	4228	30.7250	4916
11	26.4375	4230	30.7375	4918
12	26.4500	4232	30.7500	4920
13	26.4625	4234	30.7625	4922
14	26.4750	4236	30.7750	4924
15	26.4875	4238	30.7875	4926

FRANCE HANDSET CHANNEL FREQUENCIES (2nd LO = 11.150 MHz, Ref Divider = 1784)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (6.25 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.7 MHz	R _y Divider (6.25 kHz Ref)
1	41.3125	6610	37.0125	5922
2	41.3250	6612	37.0250	5924
3	41.3375	6614	37.0375	5926
4	41.3500	6616	37.0500	5928
5	41.3625	6618	37.0625	5930
6	41.3750	6620	37.0750	5932
7	41.3875	6622	37.0875	5934
8	41.4000	6624	37.1000	5936
9	41.4125	6626	37.1125	5938
10	41.4250	6628	37.1250	5940
11	41.4375	6630	37.1375	5942
12	41.4500	6632	37.1500	5944
13	41.4625	6634	37.1625	5946
14	41.4750	6636	37.1750	5948
15	41.4875	6638	37.1875	5950

CHINA BASESET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _y Divider (5.0 kHz Ref)
1	45.250	9050	37.555	7511
2	45.275	9055	37.580	7516
3	45.300	9060	37.605	7521
4	45.325	9065	37.630	7526
5	45.350	9070	37.655	7531
6	45.375	9075	37.680	7536
7	45.400	9080	37.705	7541
8	45.425	9085	37.730	7546
9	45.450	9090	37.755	7551
10	45.475	9095	37.780	7556

CHINA HANDSET CHANNEL FREQUENCIES (2nd LO = 10.240 MHz, Ref Divider = 2048)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (5.0 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _y Divider (5.0 kHz Ref)
1	48.250	9650	34.555	6911
2	48.275	9655	34.580	6916
3	48.300	9660	34.605	6921
4	48.325	9665	34.630	6926
5	48.350	9670	34.655	6931
6	48.375	9675	34.680	6936
7	48.400	9680	34.705	6941
8	48.425	9685	34.730	6946
9	48.450	9690	34.755	6951
10	48.475	9695	34.780	6956

NETHERLANDS CT-1 BASESET CHANNEL FREQUENCIES

(2nd LO = 10.240 MHz, Ref Divider = 1024 + divide by 4, 2nd IF = 455 Hz)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (2.5 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (2.5 kHz Ref)
1	31.0375	12415	29.2425	11697
2	31.0625	12425	29.2675	11707
3	31.0875	12435	29.2925	11717
4	31.1125	12445	29.3175	11727
5	31.1375	12455	29.3425	11737
6	31.1625	12465	29.3675	11747
7	31.1875	12475	29.3925	11757
8	31.2125	12485	29.4175	11767
9	31.2375	12495	29.4425	11777
10	31.2625	12505	29.4675	11787
11	31.2875	12515	29.4925	11797
12	31.3125	12525	29.5175	11807

NETHERLANDS CT-1 HANDSET CHANNEL FREQUENCIES

(2nd LO = 10.240 MHz, Ref Divider = 1024 + divide by 4, 2nd IF = 455 Hz)

Channel Number	T _x Channel Frequency (MHz)	T _x Divider (2.5 kHz Ref)	1st LO Frequency (MHz) 1st IF = 10.695 MHz	R _x Divider (2.5 kHz Ref)
1	39.9375	15975	20.3425	8137
2	39.9625	15985	20.3675	8147
3	39.9875	15995	20.3925	8157
4	40.0125	16005	20.4175	8167
5	40.0375	16015	20.4425	8177
6	40.0625	16025	20.4675	8187
7	40.0875	16035	20.4925	8197
8	40.1125	16045	20.5175	8207
9	40.1375	16055	20.5425	8217
10	40.1625	16065	20.5675	8227
11	40.1875	16075	20.5925	8237
12	40.2125	16085	20.6175	8247

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