



Appendix G

Frequency Stability

According to FCC Part 2.1055 & Part 27.54

According to IC RSS-Gen, §4.7 & RSS-130, §4.3



Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1(1.4 M)	M	VN	-30 °C	-23	-0.03251	---	±2.5	Pass
			-20 °C	25	0.03534	---	±2.5	Pass
			-10 °C	-22	-0.03110	---	±2.5	Pass
			0 °C	24	0.03392	---	±2.5	Pass
			10 °C	25	0.03534	---	±2.5	Pass
			20 °C	26	0.03675	---	±2.5	Pass
			30 °C	-16	-0.02261	---	±2.5	Pass
			40 °C	-7	-0.00989	---	±2.5	Pass
TM1(3M)	M	VN	50 °C	13	0.01837	---	±2.5	Pass
			-30 °C	27	0.03816	---	±2.5	Pass
			-20 °C	19	0.02686	---	±2.5	Pass
			-10 °C	-25	-0.03534	---	±2.5	Pass
			0 °C	10	0.01413	---	±2.5	Pass
			10 °C	-24	-0.03392	---	±2.5	Pass
			20 °C	12	0.01696	---	±2.5	Pass
			30 °C	-20	-0.02827	---	±2.5	Pass
TM1(5M)	M	VN	40 °C	27	0.03816	---	±2.5	Pass
			50 °C	12	0.01696	---	±2.5	Pass
			-30 °C	22	0.03110	---	±2.5	Pass
			-20 °C	9	0.01272	---	±2.5	Pass
			-10 °C	23	0.03251	---	±2.5	Pass
			0 °C	-15	-0.02120	---	±2.5	Pass
			10 °C	11	0.01555	---	±2.5	Pass
			20 °C	17	0.02403	---	±2.5	Pass
TM1(10 M)	M	VN	30 °C	15	0.02120	---	±2.5	Pass
			40 °C	17	0.02403	---	±2.5	Pass
			50 °C	-22	-0.00868	---	±2.5	Pass
			-30 °C	9	0.01272	---	±2.5	Pass
			-20 °C	-6	-0.00848	---	±2.5	Pass
			-10 °C	27	0.03816	---	±2.5	Pass
			0 °C	-17	-0.02403	---	±2.5	Pass
			10 °C	8	0.01131	---	±2.5	Pass
TM2(1.4 M)	M	VN	20 °C	-16	-0.02261	---	±2.5	Pass
			30 °C	17	0.02403	---	±2.5	Pass
			40 °C	-9	-0.01272	---	±2.5	Pass
			50 °C	-9	-0.00355	---	±2.5	Pass



			10 °C	15	0.00798	---	±2.5	Pass
			20 °C	10	0.00532	---	±2.5	Pass
			30 °C	-6	-0.00319	---	±2.5	Pass
			40 °C	-5	-0.00266	---	±2.5	Pass
			50 °C	12	0.00638	---	±2.5	Pass
TM2(3M)	M	VN	-30 °C	12	0.00638	---	±2.5	Pass
			-20 °C	-11	-0.00585	---	±2.5	Pass
			-10 °C	14	0.00745	---	±2.5	Pass
			0 °C	-5	-0.00266	---	±2.5	Pass
			10 °C	13	0.00691	---	±2.5	Pass
			20 °C	6	0.00319	---	±2.5	Pass
			30 °C	12	0.00638	---	±2.5	Pass
			40 °C	-6	-0.00319	---	±2.5	Pass
TM2(5M)	M	VN	50 °C	12	0.00638	---	±2.5	Pass
			-30 °C	15	0.00798	---	±2.5	Pass
			-20 °C	20	0.01064	---	±2.5	Pass
			-10 °C	13	0.00691	---	±2.5	Pass
			0 °C	-21	-0.01117	---	±2.5	Pass
			10 °C	-8	-0.00426	---	±2.5	Pass
			20 °C	-20	-0.01064	---	±2.5	Pass
			30 °C	27	0.01436	---	±2.5	Pass
TM2(10 M)	M	VN	40 °C	15	0.00798	---	±2.5	Pass
			50 °C	10	0.00532	---	±2.5	Pass
			-30 °C	20	0.01064	---	±2.5	Pass
			-20 °C	-12	-0.00638	---	±2.5	Pass
			-10 °C	-23	-0.01223	---	±2.5	Pass
			0 °C	14	0.00745	---	±2.5	Pass
			10 °C	12	0.00638	---	±2.5	Pass
			20 °C	15	0.00798	---	±2.5	Pass
			30 °C	20	0.01064	---	±2.5	Pass
			40 °C	13	0.00691	---	±2.5	Pass
			50 °C	-21	-0.01117	---	±2.5	Pass



Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1(1.4 M)	M	20 °C	VL	14	0.01979	---	±2.5	Pass
			VN	19	0.02686	---	±2.5	Pass
			VH	22	0.03110	---	±2.5	Pass
TM1(3M)	M	20 °C	VL	18	0.02544	---	±2.5	Pass
			VN	19	0.02686	---	±2.5	Pass
			VH	26	0.03675	---	±2.5	Pass
TM1(5M)	M	20 °C	VL	15	0.02120	---	±2.5	Pass
			VN	8	0.01131	---	±2.5	Pass
			VH	26	0.03675	---	±2.5	Pass
TM1(10 M)	M	20 °C	VL	-19	-0.02686	---	±2.5	Pass
			VN	-25	-0.03534	---	±2.5	Pass
			VH	27	0.03816	---	±2.5	Pass
TM2(1.4 M)	M	20 °C	VL	14	0.00745	---	±2.5	Pass
			VN	-7	-0.00372	---	±2.5	Pass
			VH	-16	-0.00851	---	±2.5	Pass
TM2(3M)	M	20 °C	VL	14	0.00745	---	±2.5	Pass
			VN	-11	-0.00585	---	±2.5	Pass
			VH	18	0.00957	---	±2.5	Pass
TM2(5M)	M	20 °C	VL	11	0.00585	---	±2.5	Pass
			VN	19	0.01011	---	±2.5	Pass
			VH	19	0.01011	---	±2.5	Pass
TM2(10 M)	M	20 °C	VL	-16	-0.00851	---	±2.5	Pass
			VN	20	0.01064	---	±2.5	Pass
			VH	-5	-0.00266	---	±2.5	Pass

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