

**Appendix G-Frequency Stability**
**Test Data:**

Frequency Stability vs temperature:

1. Test for 758MHz to 775MHz (middle channel=766.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	60.50	0.0789	0.1
	40	120	61.92	0.0808	0.1
	30	120	1.84	0.0024	0.1
	20	120	29.92	0.0390	0.1
	10	120	8.84	0.0115	0.1
	0	120	45.73	0.0597	0.1
	-10	120	2.26	0.0029	0.1
	-20	120	26.85	0.0350	0.1
	-30	120	6.87	0.0090	0.1
	-40	120	1.01	0.0013	0.1
12.5kHz	50	120	45.62	0.0595	0.1
	40	120	13.16	0.0172	0.1
	30	120	58.22	0.0760	0.1
	20	120	30.26	0.0395	0.1
	10	120	3.15	0.0041	0.1
	0	120	0.09	0.0001	0.1
	-10	120	12.22	0.0159	0.1
	-20	120	1.04	0.0014	0.1
	-30	120	18.09	0.0236	0.1
	-40	120	61.14	0.0798	0.1
25kHz	50	120	3.07	0.0040	0.1
	40	120	5.06	0.0066	0.1
	30	120	5.10	0.0067	0.1
	20	120	17.36	0.0226	0.1
	10	120	32.58	0.0425	0.1
	0	120	5.88	0.0077	0.1
	-10	120	56.60	0.0738	0.1
	-20	120	15.95	0.0208	0.1
	-30	120	46.70	0.0609	0.1
	-40	120	25.24	0.0329	0.1



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Frequency Stability vs voltage:

1. Test for 758MHz to 775MHz (middle channel=766.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	35.19	0.0459	0.1
	120	20	47.08	0.0614	0.1
	138	20	36.70	0.0479	0.1
12.5kHz	102	20	61.69	0.0805	0.1
	120	20	29.76	0.0388	0.1
	138	20	43.93	0.0573	0.1
25kHz	102	20	1.76	0.0023	0.1
	120	20	32.02	0.0418	0.1
	138	20	0.52	0.0007	0.1



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