

Appendix G for Frequency Stability

Frequency Stability vs temperature:

1. Test for 406.1MHz to 450MHz (middle channel=428.05MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	55	24	3.39	0.0079	0.5
	50	24	3.22	0.0075	0.5
	40	24	4.22	0.0099	0.5
	30	24	1.29	0.0030	0.5
	20	24	4.50	0.0105	0.5
	10	24	3.23	0.0075	0.5
	0	24	1.35	0.0032	0.5
	-10	24	4.12	0.0096	0.5
	-20	24	4.59	0.0107	0.5
	-30	24	3.76	0.0088	0.5
	-40	24	1.31	0.0031	0.5
12.5kHz	55	24	4.48	0.0105	1.5
	50	24	1.15	0.0027	1.5
	40	24	3.27	0.0076	1.5
	30	24	4.04	0.0094	1.5
	20	24	2.09	0.0049	1.5
	10	24	1.21	0.0028	1.5
	0	24	4.46	0.0104	1.5
	-10	24	3.96	0.0093	1.5
	-20	24	2.34	0.0055	1.5
	-30	24	1.79	0.0042	1.5
	-40	24	2.56	0.0060	1.5
25kHz	55	24	2.31	0.0054	2.5
	50	24	2.35	0.0055	2.5
	40	24	4.58	0.0107	2.5
	30	24	4.48	0.0105	2.5
	20	24	4.03	0.0094	2.5
	10	24	4.66	0.0109	2.5
	0	24	2.30	0.0054	2.5
	-10	24	2.25	0.0053	2.5
	-20	24	4.62	0.0108	2.5
	-30	24	1.13	0.0026	2.5
	-40	24	2.25	0.0053	2.5



Frequency Stability vs voltage:

1.Test for 406.1MHz to 450MHz (middle channel=428.05MHz)

Channel Bandwidth (kHz)	Voltage (V dc)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	20.4	20	2.14	0.0050	0.5
	24.0	20	1.98	0.0046	0.5
	27.6	20	2.67	0.0062	0.5
12.5kHz	20.4	20	2.91	0.0068	1.5
	24.0	20	1.45	0.0034	1.5
	27.6	20	1.48	0.0035	1.5
25kHz	20.4	20	3.71	0.0087	2.5
	24.0	20	3.01	0.0070	2.5
	27.6	20	2.22	0.0052	2.5