

Appendix G-Frequency Stability

Test Data:

Frequency Stability vs temperature:

1. Test for 406.1-420MHz (middle channel=413.05MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	58.80	0.14	2.5
	40	120	32.10	0.08	2.5
	30	120	26.48	0.06	2.5
	20	120	33.95	0.08	2.5
	10	120	16.12	0.04	2.5
	0	120	24.10	0.06	2.5
	-10	120	56.91	0.14	2.5
	-20	120	53.69	0.13	2.5
	-30	120	18.47	0.04	2.5
	-40	120	41.72	0.10	2.5
12.5kHz	50	120	23.45	0.06	2.5
	40	120	11.89	0.03	2.5
	30	120	30.89	0.07	2.5
	20	120	32.92	0.08	2.5
	10	120	14.42	0.03	2.5
	0	120	59.48	0.14	2.5
	-10	120	43.09	0.10	2.5
	-20	120	60.06	0.15	2.5
	-30	120	60.40	0.15	2.5
	-40	120	14.67	0.04	2.5



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2. Test for 421-430MHz (middle channel=425.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	59.17	0.14	2.5
	40	120	30.34	0.07	2.5
	30	120	24.93	0.06	2.5
	20	120	31.68	0.07	2.5
	10	120	17.73	0.04	2.5
	0	120	22.24	0.05	2.5
	-10	120	56.60	0.13	2.5
	-20	120	52.31	0.12	2.5
	-30	120	15.46	0.04	2.5
	-40	120	39.38	0.09	2.5
12.5kHz	50	120	21.66	0.05	2.5
	40	120	9.13	0.02	2.5
	30	120	27.83	0.06	2.5
	20	120	33.99	0.08	2.5
	10	120	14.37	0.03	2.5
	0	120	62.21	0.15	2.5
	-10	120	39.86	0.09	2.5
	-20	120	58.65	0.14	2.5
	-30	120	58.35	0.14	2.5
	-40	120	11.87	0.03	2.5



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3. Test for 450-470MHz (middle channel=460MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	57.43	0.12	2.5
	40	120	31.47	0.07	2.5
	30	120	25.60	0.06	2.5
	20	120	33.01	0.07	2.5
	10	120	18.15	0.04	2.5
	0	120	23.13	0.05	2.5
	-10	120	59.04	0.13	2.5
	-20	120	52.77	0.11	2.5
	-30	120	15.93	0.03	2.5
	-40	120	42.69	0.09	2.5
12.5kHz	50	120	22.03	0.05	2.5
	40	120	9.98	0.02	2.5
	30	120	28.12	0.06	2.5
	20	120	36.48	0.08	2.5
	10	120	14.16	0.03	2.5
	0	120	61.18	0.13	2.5
	-10	120	45.43	0.10	2.5
	-20	120	59.32	0.13	2.5
	-30	120	59.62	0.13	2.5
	-40	120	13.47	0.03	2.5



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4. Test for 470-512MHz (middle channel=491MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	61.86	0.13	2.5
	40	120	30.24	0.06	2.5
	30	120	25.19	0.05	2.5
	20	120	34.30	0.07	2.5
	10	120	15.93	0.03	2.5
	0	120	22.09	0.04	2.5
	-10	120	59.24	0.12	2.5
	-20	120	51.94	0.11	2.5
	-30	120	15.59	0.03	2.5
	-40	120	38.17	0.08	2.5
12.5kHz	50	120	24.16	0.05	2.5
	40	120	12.35	0.03	2.5
	30	120	30.28	0.06	2.5
	20	120	35.91	0.07	2.5
	10	120	15.24	0.03	2.5
	0	120	61.87	0.13	2.5
	-10	120	45.44	0.09	2.5
	-20	120	60.27	0.12	2.5
	-30	120	61.46	0.13	2.5
	-40	120	13.64	0.03	2.5



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Frequency Stability vs voltage:
1. Test for 406.1-420MHz (middle channel=413.05MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	42.66	0.10	2.5
	120	20	56.28	0.14	2.5
	138	20	59.20	0.14	2.5
12.5kHz	102	20	59.32	0.14	2.5
	120	20	27.44	0.07	2.5
	138	20	28.10	0.07	2.5

2. Test for 421-430MHz (middle channel=425.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	40.56	0.09	2.5
	120	20	53.35	0.12	2.5
	138	20	55.73	0.13	2.5
12.5kHz	102	20	57.86	0.13	2.5
	120	20	25.48	0.06	2.5
	138	20	28.89	0.07	2.5

3. Test for 450-470MHz (middle channel=460MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	40.86	0.09	2.5
	120	20	58.93	0.13	2.5
	138	20	57.32	0.12	2.5
12.5kHz	102	20	56.49	0.12	2.5
	120	20	27.78	0.06	2.5
	138	20	28.93	0.06	2.5

4. Test for 470-512MHz (middle channel=491MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	43.74	0.09	2.5
	120	20	57.46	0.12	2.5
	138	20	60.08	0.12	2.5
12.5kHz	102	20	56.68	0.12	2.5
	120	20	28.77	0.06	2.5
	138	20	29.44	0.06	2.5



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