

Appendix G-Frequency Stability
Test Data:

Frequency Stability vs temperature:

1. Test for 929MHz to 930MHz (middle channel=929.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	53.60	0.06	1.5
	40	120	24.96	0.03	1.5
	30	120	21.91	0.02	1.5
	20	120	27.70	0.03	1.5
	10	120	10.70	0.01	1.5
	0	120	15.98	0.02	1.5
	-10	120	52.06	0.06	1.5
	-20	120	49.48	0.05	1.5
	-30	120	12.36	0.01	1.5
	-40	120	33.90	0.04	1.5
12.5kHz	50	120	15.98	0.02	1.5
	40	120	7.82	0.01	1.5
	30	120	23.31	0.03	1.5
	20	120	29.66	0.03	1.5
	10	120	8.94	0.01	1.5
	0	120	56.10	0.06	1.5
	-10	120	36.86	0.04	1.5
	-20	120	55.82	0.06	1.5
	-30	120	52.71	0.06	1.5
	-40	120	8.55	0.01	1.5
25kHz	50	120	54.35	0.06	1.5
	40	120	48.18	0.05	1.5
	30	120	55.23	0.06	1.5
	20	120	57.05	0.06	1.5
	10	120	22.41	0.02	1.5
	0	120	51.03	0.05	1.5
	-10	120	32.20	0.03	1.5
	-20	120	17.08	0.02	1.5
	-30	120	34.63	0.04	1.5
	-40	120	6.61	0.01	1.5



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2. Test for 930MHz to 931MHz (middle channel=930.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	19.30	0.02	1.0
	40	120	18.82	0.02	1.0
	30	120	8.61	0.01	1.0
	20	120	58.73	0.06	1.0
	10	120	48.70	0.05	1.0
	0	120	54.69	0.06	1.0
	-10	120	34.17	0.04	1.0
	-20	120	54.17	0.06	1.0
	-30	120	55.06	0.06	1.0
	-40	120	7.91	0.01	1.0

3. Test for 931MHz to 932MHz (middle channel=931.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	18.98	0.02	1.5
	40	120	26.74	0.03	1.5
	30	120	43.74	0.05	1.5
	20	120	22.39	0.02	1.5
	10	120	51.46	0.06	1.5
	0	120	50.78	0.05	1.5
	-10	120	49.80	0.05	1.5
	-20	120	51.49	0.06	1.5
	-30	120	24.24	0.03	1.5
	-40	120	22.85	0.02	1.5

4. Test for 932MHz to 935MHz (middle channel=933.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	33.48	0.04	2.5
	40	120	35.75	0.04	2.5
	30	120	46.37	0.05	2.5
	20	120	43.83	0.05	2.5
	10	120	41.92	0.04	2.5
	0	120	55.40	0.06	2.5
	-10	120	38.16	0.04	2.5
	-20	120	48.12	0.05	2.5
	-30	120	54.38	0.06	2.5
	-40	120	23.22	0.02	2.5



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5. Test for 935MHz to 940MHz (middle channel=937.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	32.17	0.03	0.1
	40	120	29.17	0.03	0.1
	30	120	31.50	0.03	0.1
	20	120	48.54	0.05	0.1
	10	120	20.28	0.02	0.1
	0	120	50.47	0.05	0.1
	-10	120	42.72	0.05	0.1
	-20	120	31.77	0.03	0.1
	-30	120	41.60	0.04	0.1
	-40	120	11.00	0.01	0.1

6. Test for 940MHz to 941MHz (middle channel=940.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	9.98	0.01	1.0
	40	120	19.78	0.02	1.0
	30	120	41.81	0.04	1.0
	20	120	57.36	0.06	1.0
	10	120	31.35	0.03	1.0
	0	120	43.83	0.05	1.0
	-10	120	41.22	0.04	1.0
	-20	120	58.13	0.06	1.0
	-30	120	19.15	0.02	1.0
	-40	120	9.45	0.01	1.0



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Frequency Stability vs voltage:
1. Test for 929MHz to 930MHz (middle channel=929.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	36.86	0.04	1.5
	120	20	48.31	0.05	1.5
	138	20	53.06	0.06	1.5
12.5kHz	102	20	54.15	0.06	1.5
	120	20	22.44	0.02	1.5
	138	20	25.10	0.03	1.5
25kHz	102	20	53.00	0.06	1.5
	120	20	24.13	0.03	1.5
	138	20	17.16	0.02	1.5

2. Test for 930MHz to 931MHz (middle channel=930.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	45.93	0.05	1.0
	120	20	54.60	0.06	1.0
	138	20	34.12	0.04	1.0

3. Test for 931MHz to 932MHz (middle channel=931.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	54.55	0.06	1.5
	120	20	59.68	0.06	1.5
	138	20	5.63	0.01	1.5

4. Test for 932MHz to 935MHz (middle channel=933.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	29.80	0.03	2.5
	120	20	10.94	0.01	2.5
	138	20	50.40	0.05	2.5



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5. Test for 935MHz to 940MHz (middle channel=937.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	57.84	0.06	0.1
	120	20	17.28	0.02	0.1
	138	20	4.77	0.01	0.1

6. Test for 940MHz to 941MHz (middle channel=940.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	47.76	0.05	1.0
	120	20	58.36	0.06	1.0
	138	20	42.69	0.05	1.0



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