

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

Frequency Stability vs temperature:

1. Test for 896MHz to 901MHz (middle channel=898.5MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	13.66	0.0152	0.1
	40	120	42.28	0.0471	0.1
	30	120	51.06	0.0568	0.1
	20	120	39.37	0.0438	0.1
	10	120	33.70	0.0375	0.1
	0	120	59.83	0.0666	0.1
	-10	120	65.66	0.0731	0.1
	-20	120	50.86	0.0566	0.1
	-30	120	59.90	0.0667	0.1
	-40	120	61.08	0.0680	0.1
12.5kHz	50	120	9.86	0.0110	0.1
	40	120	63.43	0.0706	0.1
	30	120	39.90	0.0444	0.1
	20	120	63.50	0.0707	0.1
	10	120	38.10	0.0424	0.1
	0	120	57.62	0.0641	0.1
	-10	120	66.24	0.0737	0.1
	-20	120	39.65	0.0441	0.1
	-30	120	68.18	0.0759	0.1
	-40	120	60.47	0.0673	0.1

Frequency Stability vs voltage:

1. Test for 896MHz to 901MHz (middle channel=898.5MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	57.23	0.0637	0.1
	120	20	44.79	0.0498	0.1
	138	20	45.14	0.0502	0.1
12.5kHz	102	20	39.56	0.0440	0.1
	120	20	62.41	0.0695	0.1
	138	20	64.04	0.0713	0.1



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**Frequency Stability vs temperature:**
**2. Test for 901MHz to 902MHz (middle channel=901.5MHz)**

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	10.14	0.0112	1.0
	40	120	42.11	0.0467	1.0
	30	120	46.97	0.0521	1.0
	20	120	40.87	0.0453	1.0
	10	120	34.30	0.0380	1.0
	0	120	64.08	0.0711	1.0
	-10	120	65.83	0.0730	1.0
	-20	120	53.41	0.0592	1.0
	-30	120	55.65	0.0617	1.0
12.5kHz	50	120	11.04	0.0122	1.0
	40	120	61.63	0.0684	1.0
	30	120	40.76	0.0452	1.0
	20	120	61.72	0.0685	1.0
	10	120	40.85	0.0453	1.0
	0	120	58.59	0.0650	1.0
	-10	120	64.16	0.0712	1.0
	-20	120	43.44	0.0482	1.0
	-30	120	72.57	0.0805	1.0
-40	120	63.60	0.0705	1.0	

**Frequency Stability vs voltage:**
**2. Test for 901MHz to 902MHz (middle channel=901.5MHz)**

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	52.19	0.0579	1.0
	120	20	43.56	0.0483	1.0
	138	20	44.32	0.0492	1.0
12.5kHz	102	20	39.63	0.0440	1.0
	120	20	61.41	0.0681	1.0
	138	20	60.49	0.0671	1.0



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