

Appendix G-Frequency Stability

Test Data:

Frequency Stability vs temperature:

1. Test for 851MHz to 869MHz (middle channel=860MHz)

Channel Bandwidth (kHz)	Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	50	120	18.27	0.0212	0.1
	40	120	73.54	0.0855	0.1
	30	120	55.31	0.0643	0.1
	20	120	42.99	0.0500	0.1
	10	120	44.53	0.0518	0.1
	0	120	70.06	0.0815	0.1
	-10	120	68.53	0.0797	0.1
	-20	120	51.86	0.0603	0.1
	-30	120	30.26	0.0352	0.1
	-40	120	73.61	0.0856	0.1
12.5kHz	50	120	23.78	0.0277	1.0
	40	120	76.47	0.0889	1.0
	30	120	54.96	0.0639	1.0
	20	120	91.62	0.1065	1.0
	10	120	38.40	0.0447	1.0
	0	120	69.47	0.0808	1.0
	-10	120	76.29	0.0887	1.0
	-20	120	51.50	0.0599	1.0
	-30	120	91.69	0.1066	1.0
	-40	120	41.81	0.0486	1.0
25kHz	50	120	17.26	0.0201	1.5
	40	120	76.16	0.0886	1.5
	30	120	56.11	0.0652	1.5
	20	120	88.15	0.1025	1.5
	10	120	43.10	0.0501	1.5
	0	120	70.85	0.0824	1.5
	-10	120	76.83	0.0893	1.5
	-20	120	49.19	0.0572	1.5
	-30	120	86.19	0.1002	1.5
	-40	120	42.73	0.0497	1.5



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Frequency Stability vs voltage:

1. Test for 851MHz to 869MHz (middle channel=860MHz)

Channel Bandwidth (kHz)	Voltage (V ac)	Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)	Limit (ppm)
6.25kHz	102	20	56.03	0.0652	0.1
	120	20	42.26	0.0491	0.1
	138	20	51.54	0.0599	0.1
12.5kHz	102	20	60.84	0.0707	1.0
	120	20	88.97	0.1035	1.0
	138	20	50.65	0.0589	1.0
25kHz	102	20	55.82	0.0649	1.5
	120	20	89.98	0.1046	1.5
	138	20	48.40	0.0563	1.5



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