

1. Frequency Stability

1.1 GSM850

1.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.40	-5.941	-0.0072	-2.5 to 2.5	Pass
			3.80	-7.813	-0.0095	-2.5 to 2.5	Pass
			4.35	-4.488	-0.0054	-2.5 to 2.5	Pass
		-30	3.80	2.389	0.0029	-2.5 to 2.5	Pass
		-20	3.80	-6.780	-0.0082	-2.5 to 2.5	Pass
		-10	3.80	-2.195	-0.0027	-2.5 to 2.5	Pass
		0	3.80	-0.161	-0.0002	-2.5 to 2.5	Pass
		10	3.80	-4.068	-0.0049	-2.5 to 2.5	Pass
		30	3.80	-5.424	-0.0066	-2.5 to 2.5	Pass
		40	3.80	-6.296	-0.0076	-2.5 to 2.5	Pass
		50	3.80	0.000	0.0000	-2.5 to 2.5	Pass
	836.6	20	3.40	-8.427	-0.0101	-2.5 to 2.5	Pass
			3.80	-8.943	-0.0107	-2.5 to 2.5	Pass
			4.35	-8.007	-0.0096	-2.5 to 2.5	Pass
		-30	3.80	1.324	0.0016	-2.5 to 2.5	Pass
		-20	3.80	-7.716	-0.0092	-2.5 to 2.5	Pass
		-10	3.80	-1.259	-0.0015	-2.5 to 2.5	Pass
		0	3.80	-3.713	-0.0044	-2.5 to 2.5	Pass
		10	3.80	1.001	0.0012	-2.5 to 2.5	Pass
		30	3.80	2.518	0.0030	-2.5 to 2.5	Pass
		40	3.80	3.003	0.0036	-2.5 to 2.5	Pass
		50	3.80	-4.294	-0.0051	-2.5 to 2.5	Pass
	848.8	20	3.40	-5.166	-0.0061	-2.5 to 2.5	Pass
			3.80	-0.581	-0.0007	-2.5 to 2.5	Pass
			4.35	-4.359	-0.0051	-2.5 to 2.5	Pass
		-30	3.80	-0.839	-0.0010	-2.5 to 2.5	Pass
		-20	3.80	5.521	0.0065	-2.5 to 2.5	Pass
		-10	3.80	-2.357	-0.0028	-2.5 to 2.5	Pass
		0	3.80	1.259	0.0015	-2.5 to 2.5	Pass
		10	3.80	0.258	0.0003	-2.5 to 2.5	Pass
		30	3.80	-5.908	-0.0070	-2.5 to 2.5	Pass
		40	3.80	-3.164	-0.0037	-2.5 to 2.5	Pass
GPRS	824.2	20	3.40	5.069	0.0062	-2.5 to 2.5	Pass
			3.80	5.166	0.0063	-2.5 to 2.5	Pass
			4.35	6.715	0.0081	-2.5 to 2.5	Pass
		-30	3.80	1.195	0.0014	-2.5 to 2.5	Pass
		-20	3.80	1.517	0.0018	-2.5 to 2.5	Pass
		-10	3.80	7.684	0.0093	-2.5 to 2.5	Pass
		0	3.80	9.040	0.0110	-2.5 to 2.5	Pass
		10	3.80	6.005	0.0073	-2.5 to 2.5	Pass
		30	3.80	7.458	0.0090	-2.5 to 2.5	Pass
		40	3.80	7.781	0.0094	-2.5 to 2.5	Pass
		50	3.80	0.872	0.0011	-2.5 to 2.5	Pass
	836.6	20	3.40	3.067	0.0037	-2.5 to 2.5	Pass
			3.80	6.651	0.0080	-2.5 to 2.5	Pass

			4.35	6.457	0.0077	-2.5 to 2.5	Pass
		-30	3.80	8.717	0.0104	-2.5 to 2.5	Pass
		-20	3.80	4.940	0.0059	-2.5 to 2.5	Pass
		-10	3.80	5.295	0.0063	-2.5 to 2.5	Pass
		0	3.80	5.747	0.0069	-2.5 to 2.5	Pass
		10	3.80	5.037	0.0060	-2.5 to 2.5	Pass
		30	3.80	7.006	0.0084	-2.5 to 2.5	Pass
		40	3.80	11.687	0.0140	-2.5 to 2.5	Pass
		50	3.80	5.456	0.0065	-2.5 to 2.5	Pass
	848.8	20	3.40	5.779	0.0068	-2.5 to 2.5	Pass
			3.80	10.783	0.0127	-2.5 to 2.5	Pass
			4.35	9.298	0.0110	-2.5 to 2.5	Pass
		-30	3.80	6.909	0.0081	-2.5 to 2.5	Pass
		-20	3.80	5.844	0.0069	-2.5 to 2.5	Pass
		-10	3.80	0.517	0.0006	-2.5 to 2.5	Pass
		0	3.80	-0.420	-0.0005	-2.5 to 2.5	Pass
		10	3.80	6.070	0.0072	-2.5 to 2.5	Pass
		30	3.80	1.517	0.0018	-2.5 to 2.5	Pass
		40	3.80	1.356	0.0016	-2.5 to 2.5	Pass
		50	3.80	-0.161	-0.0002	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.40	1.679	0.0020	-2.5 to 2.5	Pass
			3.80	4.391	0.0053	-2.5 to 2.5	Pass
			4.35	7.297	0.0089	-2.5 to 2.5	Pass
		-30	3.80	8.879	0.0108	-2.5 to 2.5	Pass
		-20	3.80	7.297	0.0089	-2.5 to 2.5	Pass
		-10	3.80	13.076	0.0159	-2.5 to 2.5	Pass
		0	3.80	7.393	0.0090	-2.5 to 2.5	Pass
		10	3.80	10.783	0.0131	-2.5 to 2.5	Pass
		30	3.80	9.944	0.0121	-2.5 to 2.5	Pass
		40	3.80	12.333	0.0150	-2.5 to 2.5	Pass
		50	3.80	11.687	0.0142	-2.5 to 2.5	Pass
	836.6	20	3.40	8.007	0.0096	-2.5 to 2.5	Pass
			3.80	5.682	0.0068	-2.5 to 2.5	Pass
			4.35	11.849	0.0142	-2.5 to 2.5	Pass
		-30	3.80	8.265	0.0099	-2.5 to 2.5	Pass
		-20	3.80	10.138	0.0121	-2.5 to 2.5	Pass
		-10	3.80	10.783	0.0129	-2.5 to 2.5	Pass
		0	3.80	7.490	0.0090	-2.5 to 2.5	Pass
		10	3.80	5.844	0.0070	-2.5 to 2.5	Pass
		30	3.80	14.948	0.0179	-2.5 to 2.5	Pass
		40	3.80	4.455	0.0053	-2.5 to 2.5	Pass
		50	3.80	1.388	0.0017	-2.5 to 2.5	Pass
	848.8	20	3.40	2.906	0.0034	-2.5 to 2.5	Pass
			3.80	3.745	0.0044	-2.5 to 2.5	Pass
			4.35	11.203	0.0132	-2.5 to 2.5	Pass
		-30	3.80	6.619	0.0078	-2.5 to 2.5	Pass
		-20	3.80	7.458	0.0088	-2.5 to 2.5	Pass
		-10	3.80	6.522	0.0077	-2.5 to 2.5	Pass
		0	3.80	7.749	0.0091	-2.5 to 2.5	Pass
		10	3.80	9.557	0.0113	-2.5 to 2.5	Pass
		30	3.80	4.746	0.0056	-2.5 to 2.5	Pass
		40	3.80	7.071	0.0083	-2.5 to 2.5	Pass
		50	3.80	9.105	0.0107	-2.5 to 2.5	Pass

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	1850.2	20	3.40	-8.879	-0.0048	-2.5 to 2.5	Pass
			3.80	1.001	0.0005	-2.5 to 2.5	Pass
			4.35	10.073	0.0054	-2.5 to 2.5	Pass
		-30	3.80	8.394	0.0045	-2.5 to 2.5	Pass
		-20	3.80	2.099	0.0011	-2.5 to 2.5	Pass
		-10	3.80	3.390	0.0018	-2.5 to 2.5	Pass
		0	3.80	7.135	0.0039	-2.5 to 2.5	Pass
		10	3.80	-0.775	-0.0004	-2.5 to 2.5	Pass
		30	3.80	-7.071	-0.0038	-2.5 to 2.5	Pass
		40	3.80	-6.037	-0.0033	-2.5 to 2.5	Pass
		50	3.80	1.647	0.0009	-2.5 to 2.5	Pass
	1880	20	3.40	-5.908	-0.0031	-2.5 to 2.5	Pass
			3.80	8.782	0.0047	-2.5 to 2.5	Pass
			4.35	4.843	0.0026	-2.5 to 2.5	Pass
		-30	3.80	9.815	0.0052	-2.5 to 2.5	Pass
		-20	3.80	-3.681	-0.0020	-2.5 to 2.5	Pass
		-10	3.80	5.166	0.0027	-2.5 to 2.5	Pass
		0	3.80	19.307	0.0103	-2.5 to 2.5	Pass
		10	3.80	1.388	0.0007	-2.5 to 2.5	Pass
		30	3.80	-0.710	-0.0004	-2.5 to 2.5	Pass
		40	3.80	-2.583	-0.0014	-2.5 to 2.5	Pass
		50	3.80	8.523	0.0045	-2.5 to 2.5	Pass
	1909.8	20	3.40	5.037	0.0026	-2.5 to 2.5	Pass
			3.80	-3.648	-0.0019	-2.5 to 2.5	Pass
			4.35	19.565	0.0102	-2.5 to 2.5	Pass
		-30	3.80	4.907	0.0026	-2.5 to 2.5	Pass
		-20	3.80	14.658	0.0077	-2.5 to 2.5	Pass
		-10	3.80	5.489	0.0029	-2.5 to 2.5	Pass
		0	3.80	20.372	0.0107	-2.5 to 2.5	Pass
		10	3.80	8.039	0.0042	-2.5 to 2.5	Pass
		30	3.80	14.303	0.0075	-2.5 to 2.5	Pass
		40	3.80	-1.033	-0.0005	-2.5 to 2.5	Pass
		50	3.80	18.145	0.0095	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.40	4.262	0.0023	-2.5 to 2.5	Pass
			3.80	16.111	0.0087	-2.5 to 2.5	Pass
			4.35	6.845	0.0037	-2.5 to 2.5	Pass
		-30	3.80	0.936	0.0005	-2.5 to 2.5	Pass
		-20	3.80	-0.032	0.0000	-2.5 to 2.5	Pass
		-10	3.80	-6.974	-0.0038	-2.5 to 2.5	Pass
		0	3.80	12.947	0.0070	-2.5 to 2.5	Pass
		10	3.80	7.523	0.0041	-2.5 to 2.5	Pass
		30	3.80	12.882	0.0070	-2.5 to 2.5	Pass
		40	3.80	9.363	0.0051	-2.5 to 2.5	Pass
		50	3.80	11.720	0.0063	-2.5 to 2.5	Pass
	1880	20	3.40	12.204	0.0065	-2.5 to 2.5	Pass
			3.80	0.775	0.0004	-2.5 to 2.5	Pass
			4.35	4.875	0.0026	-2.5 to 2.5	Pass
		-30	3.80	-4.649	-0.0025	-2.5 to 2.5	Pass
		-20	3.80	4.100	0.0022	-2.5 to 2.5	Pass

		-10	3.80	-9.912	-0.0053	-2.5 to 2.5	Pass
		0	3.80	-8.007	-0.0043	-2.5 to 2.5	Pass
		10	3.80	3.196	0.0017	-2.5 to 2.5	Pass
		30	3.80	-9.686	-0.0052	-2.5 to 2.5	Pass
		40	3.80	-6.683	-0.0036	-2.5 to 2.5	Pass
		50	3.80	1.227	0.0007	-2.5 to 2.5	Pass
	1909.8	20	3.40	7.393	0.0039	-2.5 to 2.5	Pass
			3.80	12.269	0.0064	-2.5 to 2.5	Pass
			4.35	9.686	0.0051	-2.5 to 2.5	Pass
		-30	3.80	15.045	0.0079	-2.5 to 2.5	Pass
		-20	3.80	18.726	0.0098	-2.5 to 2.5	Pass
		-10	3.80	9.460	0.0050	-2.5 to 2.5	Pass
		0	3.80	12.043	0.0063	-2.5 to 2.5	Pass
		10	3.80	19.275	0.0101	-2.5 to 2.5	Pass
		30	3.80	23.827	0.0125	-2.5 to 2.5	Pass
		40	3.80	18.403	0.0096	-2.5 to 2.5	Pass
		50	3.80	1.647	0.0009	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.40	-2.002	-0.0011	-2.5 to 2.5	Pass
			3.80	-0.161	-0.0001	-2.5 to 2.5	Pass
			4.35	-2.551	-0.0014	-2.5 to 2.5	Pass
		-30	3.80	5.876	0.0032	-2.5 to 2.5	Pass
		-20	3.80	-13.366	-0.0072	-2.5 to 2.5	Pass
		-10	3.80	-2.389	-0.0013	-2.5 to 2.5	Pass
		0	3.80	5.392	0.0029	-2.5 to 2.5	Pass
		10	3.80	5.456	0.0029	-2.5 to 2.5	Pass
		30	3.80	1.453	0.0008	-2.5 to 2.5	Pass
		40	3.80	4.617	0.0025	-2.5 to 2.5	Pass
		50	3.80	-0.129	-0.0001	-2.5 to 2.5	Pass
	1880	20	3.40	14.787	0.0079	-2.5 to 2.5	Pass
			3.80	1.485	0.0008	-2.5 to 2.5	Pass
			4.35	-6.941	-0.0037	-2.5 to 2.5	Pass
		-30	3.80	-5.941	-0.0032	-2.5 to 2.5	Pass
		-20	3.80	-3.422	-0.0018	-2.5 to 2.5	Pass
		-10	3.80	-12.043	-0.0064	-2.5 to 2.5	Pass
		0	3.80	4.520	0.0024	-2.5 to 2.5	Pass
		10	3.80	2.292	0.0012	-2.5 to 2.5	Pass
		30	3.80	-0.646	-0.0003	-2.5 to 2.5	Pass
		40	3.80	-5.682	-0.0030	-2.5 to 2.5	Pass
		50	3.80	8.104	0.0043	-2.5 to 2.5	Pass
	1909.8	20	3.40	8.459	0.0044	-2.5 to 2.5	Pass
			3.80	7.523	0.0039	-2.5 to 2.5	Pass
			4.35	18.371	0.0096	-2.5 to 2.5	Pass
		-30	3.80	18.435	0.0097	-2.5 to 2.5	Pass
		-20	3.80	12.624	0.0066	-2.5 to 2.5	Pass
		-10	3.80	12.495	0.0065	-2.5 to 2.5	Pass
		0	3.80	7.071	0.0037	-2.5 to 2.5	Pass
		10	3.80	6.845	0.0036	-2.5 to 2.5	Pass
		30	3.80	8.265	0.0043	-2.5 to 2.5	Pass
		40	3.80	7.103	0.0037	-2.5 to 2.5	Pass
		50	3.80	6.199	0.0032	-2.5 to 2.5	Pass