

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	
GPRS	824.2	20	9.00	-3.681	-0.0045	-2.5 to 2.5	Pass
			12.00	-4.165	-0.0051	-2.5 to 2.5	Pass
			30.00	-4.875	-0.0059	-2.5 to 2.5	Pass
		-20	12.00	-2.970	-0.0036	-2.5 to 2.5	Pass
		-10	12.00	-8.394	-0.0102	-2.5 to 2.5	Pass
		0	12.00	-5.295	-0.0064	-2.5 to 2.5	Pass
		10	12.00	-5.650	-0.0069	-2.5 to 2.5	Pass
		30	12.00	-10.202	-0.0124	-2.5 to 2.5	Pass
		40	12.00	-4.197	-0.0051	-2.5 to 2.5	Pass
		50	12.00	-3.681	-0.0045	-2.5 to 2.5	Pass
		65	12.00	-2.744	-0.0033	-2.5 to 2.5	Pass
	836.6	20	9.00	-6.070	-0.0073	-2.5 to 2.5	Pass
			12.00	-12.398	-0.0148	-2.5 to 2.5	Pass
			30.00	-12.075	-0.0144	-2.5 to 2.5	Pass
		-20	12.00	-11.139	-0.0133	-2.5 to 2.5	Pass
		-10	12.00	-3.713	-0.0044	-2.5 to 2.5	Pass
		0	12.00	-10.654	-0.0127	-2.5 to 2.5	Pass
		10	12.00	-4.197	-0.0050	-2.5 to 2.5	Pass
		30	12.00	-9.008	-0.0108	-2.5 to 2.5	Pass
		40	12.00	-9.331	-0.0112	-2.5 to 2.5	Pass
		50	12.00	-12.688	-0.0152	-2.5 to 2.5	Pass
		65	12.00	-12.204	-0.0146	-2.5 to 2.5	Pass
	848.8	20	9.00	-7.619	-0.0090	-2.5 to 2.5	Pass
			12.00	-6.748	-0.0080	-2.5 to 2.5	Pass
			30.00	-10.009	-0.0118	-2.5 to 2.5	Pass
		-20	12.00	-8.136	-0.0096	-2.5 to 2.5	Pass
		-10	12.00	-11.332	-0.0134	-2.5 to 2.5	Pass
		0	12.00	-5.489	-0.0065	-2.5 to 2.5	Pass
		10	12.00	-8.265	-0.0097	-2.5 to 2.5	Pass
		30	12.00	-7.006	-0.0083	-2.5 to 2.5	Pass
		40	12.00	-7.038	-0.0083	-2.5 to 2.5	Pass
		50	12.00	-5.327	-0.0063	-2.5 to 2.5	Pass
65	12.00	-10.557	-0.0124	-2.5 to 2.5	Pass		
EGPRS	824.2	20	9.00	33.267	0.0404	-2.5 to 2.5	Pass
			12.00	33.750	0.0409	-2.5 to 2.5	Pass
			30.00	37.925	0.0460	-2.5 to 2.5	Pass
		-20	12.00	30.206	0.0366	-2.5 to 2.5	Pass
		-10	12.00	38.050	0.0462	-2.5 to 2.5	Pass
		0	12.00	40.902	0.0496	-2.5 to 2.5	Pass
		10	12.00	43.927	0.0533	-2.5 to 2.5	Pass
		30	12.00	43.927	0.0533	-2.5 to 2.5	Pass
		40	12.00	43.859	0.0532	-2.5 to 2.5	Pass
		50	12.00	42.239	0.0512	-2.5 to 2.5	Pass
		65	12.00	35.720	0.0433	-2.5 to 2.5	Pass
	836.6	20	9.00	34.421	0.0411	-2.5 to 2.5	Pass
			12.00	33.107	0.0396	-2.5 to 2.5	Pass

			30.00	32.434	0.0388	-2.5 to 2.5	Pass
		-20	12.00	33.730	0.0403	-2.5 to 2.5	Pass
		-10	12.00	32.811	0.0392	-2.5 to 2.5	Pass
		0	12.00	31.848	0.0381	-2.5 to 2.5	Pass
		10	12.00	30.616	0.0366	-2.5 to 2.5	Pass
		30	12.00	30.469	0.0364	-2.5 to 2.5	Pass
		40	12.00	32.687	0.0391	-2.5 to 2.5	Pass
		50	12.00	30.573	0.0365	-2.5 to 2.5	Pass
		65	12.00	31.859	0.0381	-2.5 to 2.5	Pass
	848.8	20	9.00	28.987	0.0342	-2.5 to 2.5	Pass
			12.00	29.020	0.0342	-2.5 to 2.5	Pass
			30.00	30.095	0.0355	-2.5 to 2.5	Pass
		-20	12.00	33.549	0.0395	-2.5 to 2.5	Pass
		-10	12.00	30.333	0.0357	-2.5 to 2.5	Pass
		0	12.00	31.061	0.0366	-2.5 to 2.5	Pass
		10	12.00	31.632	0.0373	-2.5 to 2.5	Pass
		30	12.00	31.553	0.0372	-2.5 to 2.5	Pass
		40	12.00	32.019	0.0377	-2.5 to 2.5	Pass
		50	12.00	32.508	0.0383	-2.5 to 2.5	Pass
		65	12.00	30.221	0.0356	-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	
GPRS	1850.2	20	9.00	-5.682	-0.0031	-2.5 to 2.5	Pass
			12.00	-2.841	-0.0015	-2.5 to 2.5	Pass
			30.00	-2.680	-0.0014	-2.5 to 2.5	Pass
		-20	12.00	-1.614	-0.0009	-2.5 to 2.5	Pass
		-10	12.00	-2.970	-0.0016	-2.5 to 2.5	Pass
		0	12.00	-3.907	-0.0021	-2.5 to 2.5	Pass
		10	12.00	-2.228	-0.0012	-2.5 to 2.5	Pass
		30	12.00	-3.874	-0.0021	-2.5 to 2.5	Pass
		40	12.00	-3.358	-0.0018	-2.5 to 2.5	Pass
		50	12.00	-4.907	-0.0027	-2.5 to 2.5	Pass
		65	12.00	-4.778	-0.0026	-2.5 to 2.5	Pass
	1880	20	9.00	2.906	0.0015	-2.5 to 2.5	Pass
			12.00	6.167	0.0033	-2.5 to 2.5	Pass
			30.00	5.166	0.0027	-2.5 to 2.5	Pass
		-20	12.00	5.004	0.0027	-2.5 to 2.5	Pass
		-10	12.00	5.876	0.0031	-2.5 to 2.5	Pass
		0	12.00	6.845	0.0036	-2.5 to 2.5	Pass
		10	12.00	6.683	0.0036	-2.5 to 2.5	Pass
		30	12.00	5.295	0.0028	-2.5 to 2.5	Pass
		40	12.00	-9.589	-0.0051	-2.5 to 2.5	Pass
		50	12.00	6.522	0.0035	-2.5 to 2.5	Pass
		65	12.00	7.490	0.0040	-2.5 to 2.5	Pass
	1909.8	20	9.00	5.876	0.0031	-2.5 to 2.5	Pass
			12.00	5.327	0.0028	-2.5 to 2.5	Pass

			30.00	6.134	0.0032	-2.5 to 2.5	Pass
		-20	12.00	-5.553	-0.0029	-2.5 to 2.5	Pass
		-10	12.00	6.328	0.0033	-2.5 to 2.5	Pass
		0	12.00	6.231	0.0033	-2.5 to 2.5	Pass
		10	12.00	2.841	0.0015	-2.5 to 2.5	Pass
		30	12.00	6.748	0.0035	-2.5 to 2.5	Pass
		40	12.00	7.587	0.0040	-2.5 to 2.5	Pass
		50	12.00	6.877	0.0036	-2.5 to 2.5	Pass
		65	12.00	7.910	0.0041	-2.5 to 2.5	Pass
EGPRS	1850.2	20	9.00	12.176	0.0066	-2.5 to 2.5	Pass
			12.00	10.639	0.0058	-2.5 to 2.5	Pass
			30.00	13.934	0.0075	-2.5 to 2.5	Pass
		-20	12.00	15.056	0.0081	-2.5 to 2.5	Pass
		-10	12.00	15.474	0.0084	-2.5 to 2.5	Pass
		0	12.00	19.229	0.0104	-2.5 to 2.5	Pass
		10	12.00	15.898	0.0086	-2.5 to 2.5	Pass
		30	12.00	17.365	0.0094	-2.5 to 2.5	Pass
		40	12.00	17.038	0.0092	-2.5 to 2.5	Pass
		50	12.00	17.479	0.0094	-2.5 to 2.5	Pass
		65	12.00	17.167	0.0093	-2.5 to 2.5	Pass
	1880	20	9.00	12.084	0.0064	-2.5 to 2.5	Pass
			12.00	14.958	0.0080	-2.5 to 2.5	Pass
			30.00	13.968	0.0074	-2.5 to 2.5	Pass
		-20	12.00	18.868	0.0100	-2.5 to 2.5	Pass
		-10	12.00	13.111	0.0070	-2.5 to 2.5	Pass
		0	12.00	13.477	0.0072	-2.5 to 2.5	Pass
		10	12.00	21.971	0.0117	-2.5 to 2.5	Pass
		30	12.00	16.575	0.0088	-2.5 to 2.5	Pass
		40	12.00	12.734	0.0068	-2.5 to 2.5	Pass
		50	12.00	16.700	0.0089	-2.5 to 2.5	Pass
		65	12.00	14.771	0.0079	-2.5 to 2.5	Pass
	1909.8	20	9.00	14.087	0.0074	-2.5 to 2.5	Pass
			12.00	16.610	0.0087	-2.5 to 2.5	Pass
			30.00	18.092	0.0095	-2.5 to 2.5	Pass
		-20	12.00	14.306	0.0075	-2.5 to 2.5	Pass
		-10	12.00	17.735	0.0093	-2.5 to 2.5	Pass
		0	12.00	13.457	0.0070	-2.5 to 2.5	Pass
		10	12.00	16.516	0.0086	-2.5 to 2.5	Pass
		30	12.00	13.083	0.0069	-2.5 to 2.5	Pass
		40	12.00	15.260	0.0080	-2.5 to 2.5	Pass
		50	12.00	16.929	0.0089	-2.5 to 2.5	Pass
		65	12.00	15.600	0.0082	-2.5 to 2.5	Pass