

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	3.27	24.976	0.0303	-2.5 to 2.5	Pass
			3.85	26.531	0.0322	-2.5 to 2.5	Pass
			4.43	26.416	0.0321	-2.5 to 2.5	Pass
		-30	3.85	25.618	0.0311	-2.5 to 2.5	Pass
		-20	3.85	26.259	0.0319	-2.5 to 2.5	Pass
		-10	3.85	27.035	0.0328	-2.5 to 2.5	Pass
		0	3.85	25.668	0.0311	-2.5 to 2.5	Pass
		10	3.85	24.590	0.0298	-2.5 to 2.5	Pass
		30	3.85	25.354	0.0308	-2.5 to 2.5	Pass
		40	3.85	27.175	0.0330	-2.5 to 2.5	Pass
	50	3.85	23.849	0.0289	-2.5 to 2.5	Pass	
	836.6	20	3.27	26.559	0.0317	-2.5 to 2.5	Pass
			3.85	25.422	0.0304	-2.5 to 2.5	Pass
			4.43	23.156	0.0277	-2.5 to 2.5	Pass
		-30	3.85	24.526	0.0293	-2.5 to 2.5	Pass
		-20	3.85	25.828	0.0309	-2.5 to 2.5	Pass
		-10	3.85	23.122	0.0276	-2.5 to 2.5	Pass
		0	3.85	23.750	0.0284	-2.5 to 2.5	Pass
		10	3.85	24.892	0.0298	-2.5 to 2.5	Pass
		30	3.85	22.810	0.0273	-2.5 to 2.5	Pass
		40	3.85	24.034	0.0287	-2.5 to 2.5	Pass
	50	3.85	22.968	0.0275	-2.5 to 2.5	Pass	
	848.8	20	3.27	27.624	0.0325	-2.5 to 2.5	Pass
			3.85	28.124	0.0331	-2.5 to 2.5	Pass
			4.43	27.905	0.0329	-2.5 to 2.5	Pass
		-30	3.85	27.724	0.0327	-2.5 to 2.5	Pass
		-20	3.85	29.743	0.0350	-2.5 to 2.5	Pass
		-10	3.85	29.093	0.0343	-2.5 to 2.5	Pass
		0	3.85	28.430	0.0335	-2.5 to 2.5	Pass
		10	3.85	29.971	0.0353	-2.5 to 2.5	Pass
30		3.85	28.982	0.0341	-2.5 to 2.5	Pass	
40		3.85	27.548	0.0325	-2.5 to 2.5	Pass	
50	3.85	27.540	0.0324	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.27	29.750	0.0361	-2.5 to 2.5	Pass
			3.85	32.906	0.0399	-2.5 to 2.5	Pass
			4.43	28.668	0.0348	-2.5 to 2.5	Pass
		-30	3.85	30.010	0.0364	-2.5 to 2.5	Pass
		-20	3.85	29.727	0.0361	-2.5 to 2.5	Pass
		-10	3.85	29.345	0.0356	-2.5 to 2.5	Pass
		0	3.85	29.520	0.0358	-2.5 to 2.5	Pass
		10	3.85	30.082	0.0365	-2.5 to 2.5	Pass
		30	3.85	30.829	0.0374	-2.5 to 2.5	Pass
		40	3.85	28.588	0.0347	-2.5 to 2.5	Pass
	50	3.85	27.917	0.0339	-2.5 to 2.5	Pass	
	836.6	20	3.27	27.302	0.0326	-2.5 to 2.5	Pass
			3.85	28.861	0.0345	-2.5 to 2.5	Pass
			4.43	28.705	0.0343	-2.5 to 2.5	Pass
-30		3.85	29.489	0.0352	-2.5 to 2.5	Pass	
-20	3.85	29.175	0.0349	-2.5 to 2.5	Pass		

		-10	3.85	27.613	0.0330	-2.5 to 2.5	Pass
		0	3.85	27.161	0.0325	-2.5 to 2.5	Pass
		10	3.85	30.662	0.0367	-2.5 to 2.5	Pass
		30	3.85	31.340	0.0375	-2.5 to 2.5	Pass
		40	3.85	28.005	0.0335	-2.5 to 2.5	Pass
		50	3.85	27.597	0.0330	-2.5 to 2.5	Pass
	848.8	20	3.27	29.574	0.0348	-2.5 to 2.5	Pass
			3.85	28.096	0.0331	-2.5 to 2.5	Pass
			4.43	27.924	0.0329	-2.5 to 2.5	Pass
		-30	3.85	29.748	0.0350	-2.5 to 2.5	Pass
		-20	3.85	26.999	0.0318	-2.5 to 2.5	Pass
		-10	3.85	28.037	0.0330	-2.5 to 2.5	Pass
		0	3.85	27.975	0.0330	-2.5 to 2.5	Pass
		10	3.85	28.359	0.0334	-2.5 to 2.5	Pass
		30	3.85	29.405	0.0346	-2.5 to 2.5	Pass
		40	3.85	28.352	0.0334	-2.5 to 2.5	Pass
		50	3.85	28.999	0.0342	-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	3.27	16.741	0.0090	-2.5 to 2.5	Pass
			3.85	16.072	0.0087	-2.5 to 2.5	Pass
			4.43	11.768	0.0064	-2.5 to 2.5	Pass
		-30	3.85	15.620	0.0084	-2.5 to 2.5	Pass
		-20	3.85	12.798	0.0069	-2.5 to 2.5	Pass
		-10	3.85	8.938	0.0048	-2.5 to 2.5	Pass
		0	3.85	14.980	0.0081	-2.5 to 2.5	Pass
		10	3.85	11.902	0.0064	-2.5 to 2.5	Pass
		30	3.85	16.906	0.0091	-2.5 to 2.5	Pass
		40	3.85	16.675	0.0090	-2.5 to 2.5	Pass
	50	3.85	12.333	0.0067	-2.5 to 2.5	Pass	
	1880	20	3.27	14.682	0.0078	-2.5 to 2.5	Pass
			3.85	22.753	0.0121	-2.5 to 2.5	Pass
			4.43	26.603	0.0142	-2.5 to 2.5	Pass
		-30	3.85	26.076	0.0139	-2.5 to 2.5	Pass
		-20	3.85	24.576	0.0131	-2.5 to 2.5	Pass
		-10	3.85	26.042	0.0139	-2.5 to 2.5	Pass
		0	3.85	25.432	0.0135	-2.5 to 2.5	Pass
		10	3.85	25.786	0.0137	-2.5 to 2.5	Pass
		30	3.85	23.393	0.0124	-2.5 to 2.5	Pass
		40	3.85	21.809	0.0116	-2.5 to 2.5	Pass
	50	3.85	24.512	0.0130	-2.5 to 2.5	Pass	
	1909.8	20	3.27	26.697	0.0140	-2.5 to 2.5	Pass
			3.85	28.456	0.0149	-2.5 to 2.5	Pass
			4.43	24.410	0.0128	-2.5 to 2.5	Pass
		-30	3.85	28.414	0.0149	-2.5 to 2.5	Pass
		-20	3.85	22.708	0.0119	-2.5 to 2.5	Pass
		-10	3.85	22.227	0.0116	-2.5 to 2.5	Pass
		0	3.85	25.502	0.0134	-2.5 to 2.5	Pass
		10	3.85	25.277	0.0132	-2.5 to 2.5	Pass
30		3.85	24.507	0.0128	-2.5 to 2.5	Pass	
40		3.85	24.740	0.0130	-2.5 to 2.5	Pass	
50	3.85	26.523	0.0139	-2.5 to 2.5	Pass		
EGPRS	1850.2	20	3.27	15.647	0.0085	-2.5 to 2.5	Pass
			3.85	15.142	0.0082	-2.5 to 2.5	Pass
			4.43	26.051	0.0141	-2.5 to 2.5	Pass
		-30	3.85	23.360	0.0126	-2.5 to 2.5	Pass
		-20	3.85	28.734	0.0155	-2.5 to 2.5	Pass
		-10	3.85	28.584	0.0154	-2.5 to 2.5	Pass
		0	3.85	25.907	0.0140	-2.5 to 2.5	Pass
		10	3.85	23.310	0.0126	-2.5 to 2.5	Pass
		30	3.85	21.625	0.0117	-2.5 to 2.5	Pass
		40	3.85	22.556	0.0122	-2.5 to 2.5	Pass
	50	3.85	23.012	0.0124	-2.5 to 2.5	Pass	
	1880	20	3.27	18.152	0.0097	-2.5 to 2.5	Pass
			3.85	28.586	0.0152	-2.5 to 2.5	Pass
			4.43	24.434	0.0130	-2.5 to 2.5	Pass
-30		3.85	24.310	0.0129	-2.5 to 2.5	Pass	
-20	3.85	29.490	0.0157	-2.5 to 2.5	Pass		

		-10	3.85	26.847	0.0143	-2.5 to 2.5	Pass
		0	3.85	22.135	0.0118	-2.5 to 2.5	Pass
		10	3.85	25.438	0.0135	-2.5 to 2.5	Pass
		30	3.85	23.434	0.0125	-2.5 to 2.5	Pass
		40	3.85	20.200	0.0107	-2.5 to 2.5	Pass
	50	3.85	26.710	0.0142	-2.5 to 2.5	Pass	
	1909.8	20	3.27	25.448	0.0133	-2.5 to 2.5	Pass
			3.85	23.434	0.0123	-2.5 to 2.5	Pass
			4.43	23.459	0.0123	-2.5 to 2.5	Pass
		-30	3.85	26.113	0.0137	-2.5 to 2.5	Pass
		-20	3.85	26.023	0.0136	-2.5 to 2.5	Pass
		-10	3.85	28.870	0.0151	-2.5 to 2.5	Pass
		0	3.85	23.392	0.0122	-2.5 to 2.5	Pass
		10	3.85	26.444	0.0138	-2.5 to 2.5	Pass
		30	3.85	25.884	0.0136	-2.5 to 2.5	Pass
		40	3.85	19.655	0.0103	-2.5 to 2.5	Pass
		50	3.85	25.556	0.0134	-2.5 to 2.5	Pass

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