

USB Synthesized Signal Generator

SSG-4000LH

Typical Performance Data

Frequency (MHz)	Max Power Output Vs. Output Frequency (dBm)		
	0°C	+25°C	+50°C
250	14.09	13.98	13.53
387	12.37	12.39	11.81
500	11.66	10.71	11.21
775	11.95	12.02	11.43
1060	16.03	16.20	15.73
1500	11.72	11.73	11.25
2160	11.80	12.18	11.87
2600	17.62	17.61	17.01
3000	13.46	13.79	12.51
3600	12.21	12.52	11.57
4000	12.10	12.30	12.03

Frequency (MHz)	Power deviation from nominal Vs. Output Frequency (dBm)				
	-60 dBm	-30 dBm	-10 dBm	0 dBm	+10 dBm
250	-0.028	-0.017	-0.142	-0.185	-0.255
500	0.126	-0.176	-0.085	-0.025	-0.060
750	-0.042	-0.044	-0.152	-0.082	-0.085
1000	0.027	-0.182	-0.240	-0.120	-0.039
1250	0.065	0.118	0.011	-0.117	-0.006
1500	-0.155	-0.032	-0.133	-0.059	0.155
1750	0.080	0.135	-0.103	-0.044	-0.089
2000	-0.168	-0.046	-0.267	-0.224	-0.071
2250	0.047	-0.100	-0.296	-0.170	-0.045
2500	0.056	0.183	-0.023	-0.169	-0.152
2750	0.210	0.096	-0.007	-0.117	-0.083
3000	0.054	0.049	0.124	-0.240	0.044
3250	0.141	-0.087	0.026	-0.068	-0.056
3500	0.319	0.145	-0.113	-0.009	0.161
3750	0.132	0.044	0.242	0.171	-0.023
4000	-0.027	-0.058	-0.448	-0.206	0.164

Power (dBm)	Power deviation from nominal Vs. Output Power (dBm)			
	250 MHz	1000 MHz	2625 MHz	4000 MHz
-60	-0.028	0.027	-0.024	-0.027
-55	-0.073	-0.038	-0.048	-0.221
-50	-0.020	-0.013	-0.010	-0.434
-45	-0.013	-0.229	0.074	-0.367
-40	-0.001	-0.167	-0.221	-0.370
-35	0.047	-0.119	0.154	-0.126
-30	-0.017	-0.182	-0.112	-0.058
-25	0.021	-0.136	-0.188	-0.314
-20	-0.055	-0.102	-0.186	-0.286
-15	-0.133	-0.026	-0.084	-0.143
-10	-0.142	-0.240	-0.221	-0.448
-5	-0.211	-0.256	-0.198	-0.293
0	-0.185	-0.120	-0.335	-0.206
5	-0.114	-0.339	-0.086	-0.096
10	-0.255	-0.039	-0.224	0.164



For detailed performance specs & shopping online see web site

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Typical Performance Data

Frequency (MHz)	Harmonics & Sub-Harmonics Levels Vs. Output Frequency														
	-50dBm					-30dBm					-10dBm				
	F0.5	F1.5	F2	F2.5	F3	F0.5	F1.5	F2	F2.5	F3	F0.5	F1.5	F2	F2.5	F3
250	-64.10	-62.01	-62.48	-63.11	-62.76	-82.40	-83.27	-84.59	-84.47	-82.79	-92.60	-93.07	-86.96	-91.42	-91.31
375	-62.70	-63.57	-58.97	-60.61	-63.40	-84.34	-85.11	-81.43	-83.96	-83.43	-93.50	-93.76	-91.72	-92.16	-91.68
500	-58.20	-62.78	-52.23	-63.31	-62.36	-80.71	-84.80	-72.75	-82.73	-82.85	-87.22	-91.76	-81.32	-91.80	-90.04
625	-61.83	-60.74	-56.21	-62.65	-62.95	-81.33	-84.21	-78.40	-83.13	-84.01	-93.59	-91.06	-92.61	-91.00	-90.06
750	-61.76	-60.40	-62.44	-65.14	-63.12	-81.33	-83.26	-82.65	-83.49	-79.86	-94.04	-92.83	-90.19	-91.10	-91.06
875	-62.49	-64.55	-61.03	-61.18	-59.89	-83.52	-82.65	-80.74	-80.71	-79.97	-89.96	-91.27	-90.15	-89.57	-90.19
1000	-63.62	-63.51	-57.34	-61.86	-62.47	-84.27	-81.60	-76.26	-82.34	-79.12	-92.21	-92.00	-89.18	-89.14	-90.97
1125	-63.42	-63.67	-59.69	-59.42	-61.00	-85.12	-82.17	-79.96	-81.73	-79.75	-93.61	-91.31	-87.35	-88.69	-87.64
1250	-62.86	-62.87	-60.72	-63.54	-56.54	-83.32	-84.45	-79.04	-82.11	-77.12	-92.50	-91.30	-84.37	-91.79	-87.56
1375	-64.36	-64.69	-60.56	-60.98	-60.22	-84.86	-85.53	-78.87	-81.18	-80.15	-91.27	-91.86	-85.24	-89.38	-88.83
1500	-63.90	-62.74	-61.07	-59.98	-58.98	-84.07	-82.72	-81.84	-81.59	-82.05	-93.69	-89.16	-84.37	-88.14	-89.29
1625	-64.66	-61.35	-59.66	-60.23	-59.98	-82.48	-80.74	-79.95	-80.85	-79.02	-90.82	-91.12	-85.13	-89.59	-90.22
1750	-63.94	-61.23	-54.18	-62.90	-50.01	-82.59	-81.83	-75.53	-79.96	-70.41	-90.49	-90.74	-78.75	-89.36	-88.60
1875	-64.16	-63.49	-55.63	-59.72	-57.22	-82.58	-81.97	-75.25	-81.63	-75.62	-92.86	-89.32	-86.38	-87.55	-87.95
2000	-57.94	-63.04	-52.44	-63.60	-57.93	-81.36	-83.86	-73.31	-81.62	-77.82	-91.03	-89.48	-80.78	-89.05	-88.56
2125	-62.79	-58.85	-57.43	-60.85	-57.52	-84.15	-80.13	-80.00	-81.39	-78.68	-93.21	-89.68	-86.22	-90.76	-89.71
2250	-60.32	-55.40	-60.67	-58.59	-61.41	-79.96	-75.60	-76.42	-76.17	-79.47	-94.03	-88.32	-73.82	-90.48	-88.18
2375	-60.00	-59.58	-59.80	-54.95	-54.98	-79.65	-76.75	-80.92	-79.58	-75.54	-90.65	-91.35	-70.64	-89.53	-88.05
2500	-62.78	-60.32	-47.07	-53.27	-59.51	-81.27	-76.36	-67.54	-72.06	-81.04	-91.73	-89.24	-69.08	-87.11	-86.47
2625	-60.74	-52.92	-44.47	-60.69	-59.58	-83.40	-72.43	-65.59	-82.23	-81.82	-90.98	-87.98	-76.12	-87.07	-89.53
2750	-63.14	-61.06	-55.47	-59.61	-60.21	-82.88	-81.45	-77.48	-79.15	-81.36	-91.91	-90.63	-67.75	-88.59	-89.63
2875	-62.62	-58.07	-58.31	-59.92	-60.00	-81.82	-76.32	-74.15	-77.51	-81.93	-90.69	-90.08	-61.67	-89.18	-89.33
3000	-63.14	-56.97	-60.77	-61.44	-59.02	-81.24	-77.10	-79.42	-81.58	-82.98	-92.26	-86.03	-60.82	-92.18	-62.69
3125	-63.50	-55.56	-55.31	-61.88	-62.93	-82.40	-76.98	-76.88	-82.14	-80.87	-93.36	-90.82	-60.63	-91.60	-85.33
3250	-62.21	-59.29	-57.98	-60.73	-61.16	-79.66	-81.87	-76.53	-80.61	-77.15	-92.40	-89.10	-66.69	-88.61	-87.42
3375	-56.80	-48.97	-59.15	-60.81	-58.74	-77.19	-64.86	-83.57	-84.03	-80.61	-91.12	-85.05	-72.43	-90.60	-82.36
3500	-58.54	-49.64	-57.39	-60.58	-61.20	-76.91	-78.97	-78.76	-85.37	-79.53	-88.85	-86.87	-68.36	-88.42	-85.54
3625	-60.65	-59.00	-60.40	-60.02	-60.38	-81.02	-80.83	-81.30	-81.14	-80.49	-91.62	-90.00	-65.19	-91.00	-76.09
3750	-60.32	-53.05	-60.21	-61.64	-60.16	-79.44	-75.65	-80.98	-82.36	-80.16	-91.01	-90.76	-60.16	-90.82	-86.71
3875	-57.05	-56.28	-61.39	-60.76	-60.70	-73.37	-75.34	-80.39	-78.92	-80.67	-91.74	-88.70	-69.84	-88.78	-80.33
4000	-55.96	-59.77	-60.91	-58.63	-57.45	-75.71	-77.67	-80.52	-77.68	-78.45	-89.79	-88.78	-81.18	-86.92	-87.80



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Frequency (MHz)	Harmonics & Sub-Harmonics Levels Vs. Output Frequency									
	0dBm					+10dBm				
	F0.5	F1.5	F2	F2.5	F3	F0.5	F1.5	F2	F2.5	F3
250	-102.53	-102.72	-83.03	-104.21	-96.05	-105.91	-104.48	-44.46	-105.36	-54.40
375	-102.69	-104.19	-80.74	-102.94	-88.86	-104.71	-107.75	-46.88	-107.09	-58.60
500	-91.77	-100.75	-72.73	-101.59	-101.30	-95.57	-105.21	-47.40	-106.28	-63.40
625	-104.94	-103.12	-92.10	-98.79	-96.15	-105.70	-105.78	-43.55	-104.50	-53.55
750	-102.94	-101.78	-85.54	-101.52	-95.22	-105.02	-108.26	-44.49	-106.52	-57.59
875	-101.38	-101.47	-82.72	-100.51	-94.33	-107.11	-105.21	-42.73	-103.34	-56.62
1000	-99.57	-101.65	-79.75	-100.69	-95.53	-104.82	-104.61	-45.85	-103.80	-58.69
1125	-100.11	-100.59	-81.52	-100.09	-94.56	-103.98	-103.04	-43.76	-103.77	-55.22
1250	-102.58	-101.30	-74.97	-99.98	-99.18	-105.36	-105.80	-43.87	-103.18	-60.61
1375	-100.60	-102.75	-75.92	-100.67	-95.73	-105.15	-102.61	-43.67	-104.07	-64.66
1500	-97.85	-100.88	-74.47	-100.61	-98.98	-98.65	-104.98	-45.82	-103.34	-66.49
1625	-99.73	-99.41	-76.67	-100.56	-96.44	-104.45	-104.05	-40.59	-102.89	-67.13
1750	-100.26	-101.08	-69.92	-99.33	-98.03	-106.14	-102.64	-42.65	-101.21	-63.04
1875	-100.46	-100.36	-72.17	-99.29	-91.82	-102.31	-104.61	-43.73	-102.96	-63.07
2000	-92.69	-99.94	-73.88	-100.56	-98.63	-91.99	-104.50	-44.15	-104.48	-66.23
2125	-101.47	-100.47	-78.53	-97.44	-95.53	-106.44	-103.45	-47.17	-102.16	-66.25
2250	-102.40	-95.66	-71.19	-98.11	-92.81	-93.42	-65.46	-49.54	-100.01	-72.10
2375	-103.94	-100.02	-68.52	-100.24	-91.48	-89.95	-73.25	-45.31	-103.47	-68.23
2500	-100.28	-101.33	-66.52	-100.05	-85.25	-77.53	-76.34	-51.68	-103.11	-71.90
2625	-101.74	-97.67	-89.83	-99.48	-96.56	-78.96	-74.35	-52.61	-102.31	-72.15
2750	-95.92	-97.64	-69.54	-98.06	-87.03	-75.74	-72.81	-48.65	-104.84	-71.56
2875	-101.36	-98.46	-61.16	-98.65	-99.83	-76.08	-73.54	-46.60	-104.96	-68.85
3000	-93.99	-98.67	-60.54	-99.91	-70.69	-74.81	-73.17	-51.60	-104.88	-63.98
3125	-100.37	-92.29	-66.14	-101.18	-80.10	-80.86	-67.10	-48.44	-103.76	-68.91
3250	-102.13	-97.74	-74.85	-99.26	-89.33	-74.66	-76.22	-56.26	-104.42	-77.90
3375	-100.29	-90.50	-69.44	-99.97	-79.24	-72.19	-80.12	-68.73	-104.92	-76.08
3500	-101.77	-98.92	-66.22	-99.00	-87.99	-85.11	-81.17	-59.96	-102.93	-83.84
3625	-102.03	-100.75	-63.61	-98.55	-79.15	-65.16	-92.97	-48.15	-102.64	-76.12
3750	-101.75	-95.60	-62.19	-100.55	-92.30	-65.58	-82.53	-43.91	-104.46	-89.32
3875	-100.09	-100.13	-71.39	-99.55	-84.55	-76.85	-94.38	-53.22	-103.05	-83.01
4000	-100.43	-98.84	-84.24	-99.61	-98.82	-71.85	-96.78	-65.14	-103.06	-90.52



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Frequency (MHz)	Phase Noise (dBc/Hz) @Offsets at 5KHz Frequency Resolution					Phase Noise (dBc/Hz) @Offsets at 1MHz Frequency Resolution				
	+25°C					+25°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
250	-93.61	-104.61	-102.76	-121.77	-146.57	-95.45	-112.58	-106.58	-123.54	-146.81
375	-89.37	-102.08	-101.18	-118.60	-144.91	-96.19	-112.21	-108.22	-123.49	-145.22
500	-90.54	-98.61	-97.75	-116.42	-143.72	-94.83	-107.85	-106.25	-124.00	-144.23
625	-88.94	-98.49	-95.40	-114.62	-143.95	-89.66	-105.80	-102.62	-118.55	-144.90
750	-84.70	-93.70	-94.87	-112.59	-143.36	-85.89	-103.68	-102.34	-117.35	-144.74
875	-84.66	-90.77	-93.82	-111.83	-143.26	-86.58	-102.07	-101.50	-117.14	-144.29
1000	-81.30	-93.69	-93.57	-112.72	-142.43	-84.72	-102.13	-100.98	-117.75	-143.08
1060	-83.28	-91.26	-90.94	-111.30	-139.05	-83.95	-102.73	-94.68	-112.93	-139.86
1125	-80.87	-91.77	-90.05	-108.44	-138.96	-83.92	-100.09	-96.91	-112.85	-140.34
1250	-81.18	-86.85	-89.91	-108.53	-138.98	-81.03	-100.56	-96.14	-112.89	-140.17
1375	-80.20	-90.47	-90.04	-109.95	-138.95	-80.56	-96.86	-94.54	-112.76	-140.05
1500	-80.30	-89.29	-89.20	-106.48	-138.20	-80.33	-101.16	-96.37	-111.33	-139.63
1625	-78.05	-86.47	-86.85	-105.21	-138.03	-80.40	-95.59	-94.86	-111.42	-139.08
1750	-77.66	-87.30	-87.88	-105.87	-137.60	-80.37	-98.03	-95.19	-110.84	-138.80
1875	-74.86	-88.32	-88.61	-107.23	-137.20	-78.15	-95.75	-94.43	-111.37	-138.09
2000	-76.17	-86.95	-87.87	-106.49	-136.95	-77.16	-97.03	-94.92	-111.56	-137.70
2125	-74.61	-86.13	-86.58	-110.56	-136.98	-78.03	-92.95	-92.47	-114.02	-137.38
2250	-75.68	-84.28	-83.39	-101.37	-132.82	-77.84	-95.32	-91.11	-106.85	-134.24
2375	-75.27	-83.67	-83.36	-101.27	-132.95	-78.50	-93.50	-90.27	-107.16	-134.25
2500	-74.17	-82.78	-82.40	-101.30	-131.88	-76.51	-93.02	-89.39	-106.30	-133.35
2600	-74.75	-82.68	-82.73	-101.90	-131.74	-78.91	-93.70	-88.82	-105.83	-132.71
2625	-76.36	-83.51	-82.85	-102.77	-131.57	-73.62	-93.24	-88.40	-105.99	-132.67
2750	-75.33	-80.94	-82.81	-102.83	-131.66	-75.56	-90.69	-87.33	-105.63	-132.54
2875	-74.14	-82.85	-83.27	-103.13	-131.58	-74.03	-91.78	-87.02	-105.61	-132.45
3000	-73.36	-82.26	-81.66	-98.88	-131.02	-78.33	-92.08	-88.93	-104.44	-132.19
3125	-72.31	-80.95	-80.86	-98.79	-131.17	-76.29	-91.45	-88.22	-104.97	-132.62
3250	-71.48	-80.11	-80.09	-97.59	-131.53	-74.65	-90.46	-88.37	-105.25	-132.71
3375	-70.04	-81.89	-80.71	-96.81	-131.38	-74.05	-93.23	-89.03	-104.68	-132.68
3500	-71.60	-81.56	-80.51	-97.86	-131.57	-73.17	-91.98	-89.39	-105.09	-132.72
3625	-70.07	-82.99	-81.86	-101.00	-131.65	-73.99	-89.81	-87.80	-105.66	-132.55
3750	-70.92	-81.71	-81.98	-100.33	-131.36	-75.90	-90.12	-88.23	-105.23	-132.39
3875	-71.10	-79.70	-81.60	-101.63	-131.28	-71.03	-90.71	-87.92	-105.89	-132.14
4000	-70.93	-80.90	-81.31	-101.01	-131.54	-71.67	-88.36	-88.66	-105.79	-132.06



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USB Synthesized Signal Generator

SSG-4000LH

Typical Performance Data

Frequency Offset (kHz)	Phase Noise (dBc/Hz) @Offsets at 5KHz Frequency Resolution				Phase Noise (dBc/Hz) @Offsets at 1MHz Frequency Resolution			
	250MHz	1060MHz	2600MHz	4000MHz	250MHz	1060MHz	2600MHz	4000MHz
0.1	-95.16	-79.71	-70.42	-70.38	-94.05	-81.69	-74.83	-68.32
0.2	-97.43	-86.22	-77.13	-73.84	-104.44	-93.05	-86.38	-84.52
0.5	-103.17	-90.10	-82.93	-78.78	-110.45	-95.30	-90.79	-87.08
1.0	-102.68	-90.54	-82.07	-80.50	-111.84	-101.10	-95.27	-89.64
2.1	-103.17	-92.29	-82.54	-81.51	-113.41	-100.32	-93.41	-90.37
4.2	-103.06	-92.02	-82.16	-81.92	-110.02	-97.75	-90.80	-89.22
10.4	-101.74	-90.78	-81.29	-81.57	-106.79	-94.25	-88.44	-88.02
19.4	-100.83	-90.31	-80.83	-80.71	-105.22	-92.96	-86.56	-86.96
51.7	-108.32	-99.66	-86.75	-88.22	-112.15	-102.07	-94.43	-94.21
105.5	-120.99	-111.54	-101.11	-101.00	-124.10	-113.58	-106.42	-106.31
150.8	-125.14	-117.37	-107.78	-108.01	-129.66	-118.95	-111.89	-111.64
164.8	-128.65	-118.72	-109.14	-109.27	-131.02	-120.25	-113.31	-113.04
180.2	-129.92	-120.02	-110.88	-110.76	-132.14	-121.28	-114.39	-114.06
197.0	-131.36	-121.44	-112.63	-112.33	-133.32	-122.59	-115.83	-115.35
215.4	-132.79	-122.59	-113.85	-113.79	-134.47	-123.59	-116.80	-116.27
235.6	-133.94	-123.66	-115.10	-114.75	-135.49	-124.87	-117.94	-117.48
257.5	-135.16	-124.84	-116.83	-116.35	-136.71	-125.88	-118.97	-118.41
281.6	-136.26	-125.93	-117.65	-117.40	-137.63	-127.13	-120.14	-119.30
307.9	-137.20	-126.89	-119.26	-118.72	-138.77	-128.11	-121.28	-120.37
336.6	-138.42	-127.92	-120.56	-119.73	-139.67	-129.00	-122.32	-121.33
368.0	-139.17	-128.89	-121.28	-120.60	-140.59	-130.07	-123.30	-122.24
402.4	-140.21	-129.80	-122.50	-121.72	-141.41	-130.97	-124.11	-123.09
440.0	-140.60	-130.82	-123.28	-122.93	-141.59	-132.11	-124.64	-124.05
481.0	-142.03	-131.69	-124.56	-123.80	-143.15	-133.02	-126.13	-124.96
525.9	-142.67	-132.58	-125.33	-124.63	-143.92	-133.86	-127.10	-125.70
575.0	-143.47	-133.61	-126.23	-125.51	-144.64	-134.77	-127.96	-126.59
628.7	-144.13	-134.47	-127.12	-126.43	-145.24	-135.68	-128.79	-127.47
687.4	-144.92	-135.32	-128.11	-127.29	-145.95	-136.42	-129.57	-128.31
751.6	-145.56	-136.20	-129.09	-128.12	-146.54	-137.33	-130.26	-129.10
821.7	-146.17	-137.07	-129.93	-129.06	-147.06	-138.20	-131.37	-129.92
898.4	-146.41	-137.99	-130.64	-130.06	-147.07	-138.98	-132.00	-130.93
982.3	-146.34	-138.62	-131.34	-130.82	-146.58	-138.34	-132.63	-129.60
1000.0	-146.19	-138.81	-131.45	-131.09	-144.59	-132.95	-132.07	-123.06



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USB Synthesized Signal Generator

SSG-4000LH

Typical Performance Data

Frequency (MHz)	Spurious @Frequency Resolution 5KHz vs. Frequency Offset (dBc)			
	Spurious @-5KHz Offset	Spurious @+5KHz Offset	Spurious @-25KHz Offset	Spurious @+25KHz Offset
250	-73.43	-73.42	-76.16	-75.47
1000	-60.76	-61.69	-69.67	-71.63
2625	-55.30	-56.19	-56.09	-58.34
3875	-56.62	-56.59	-55.56	-57.91

Frequency (MHz)	Spurious @Frequency Resolution 100KHz vs. Frequency Offset (dBc)			
	Spurious @-50KHz Offset	Spurious @+50KHz Offset	Spurious @-100KHz Offset	Spurious @+100KHz Offset
250	-76.50	-74.76	-74.70	-75.37
1000	-73.21	-73.31	-70.17	-71.54
2625	-64.29	-63.53	-61.37	-61.83
3875	-59.03	-58.37	-58.20	-62.38

Frequency (MHz)	Spurious @Frequency Resolution 100KHz vs. Frequency Offset (dBc)			
	Spurious @-1000KHz Offset	Spurious @+1000KHz Offset	Spurious @-10000KHz Offset	Spurious @+10000KHz Offset
250	-100.19	-98.48	-105.22	-100.24
1000	-99.19	-101.64	-97.47	-97.69
2625	-61.62	-63.72	-83.97	-88.07
3875	-61.69	-61.87	-84.26	-84.24



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