

USB Synthesized Signal Generator

SSG-4000HP

Typical Performance Data

Frequency (MHz)	Max Power Output Vs. Output Frequency (dBm)		
	0°C	+25°C	+50°C
250	21.05	21.93	21.56
387	19.96	21.53	20.75
500	21.08	21.78	21.28
775	21.19	20.83	20.28
1060	21.66	22.12	20.83
1500	21.31	21.68	21.44
2160	21.01	21.58	21.75
2600	20.99	21.65	21.46
3000	20.19	20.15	18.73
3600	19.12	20.18	19.87
4000	18.22	19.08	18.63

Frequency (MHz)	Power deviation from nominal Vs. Output Frequency (dBm)				
	-50 dBm	-30 dBm	0 dBm	+10 dBm	+17 dBm
250	-0.172	-0.054	0.184	0.196	-0.046
500	0.045	0.028	0.025	-0.068	0.022
750	0.100	0.079	-0.115	0.096	-0.074
1000	-0.093	-0.254	-0.046	-0.133	-0.185
1250	0.059	-0.051	0.130	-0.053	0.122
1500	0.095	-0.001	-0.003	0.069	0.035
1750	0.219	0.122	0.025	0.050	0.132
2000	0.157	0.115	-0.003	0.083	-0.001
2250	0.063	-0.015	-0.077	-0.025	0.066
2500	0.299	0.131	0.105	0.265	-0.105
2750	0.392	0.364	0.127	0.269	-0.074
3000	0.027	0.154	0.031	-0.146	0.018
3250	0.121	0.248	-0.264	-0.093	-0.209
3500	0.316	0.285	-0.255	-0.016	0.041
3750	-0.123	0.213	-0.206	-0.181	-0.339
4000	0.472	0.289	-0.001	0.207	0.165

Power (dBm)	Power deviation from nominal Vs. Output Power (dBm)			
	250 MHz	1000 MHz	2625 MHz	4000 MHz
-50	-0.172	-0.093	0.322	0.472
-45	-0.133	-0.011	0.186	0.268
-40	0.080	-0.025	0.248	0.217
-35	0.137	-0.012	-0.007	0.334
-30	-0.054	-0.254	0.234	0.289
-25	-0.150	0.011	0.243	-0.016
-20	-0.059	-0.167	0.371	0.165
-15	-0.067	-0.081	-0.033	0.377
-10	-0.001	-0.013	0.184	0.374
-5	-0.047	0.034	0.011	0.422
0	0.184	-0.046	0.039	-0.001
5	0.116	0.004	0.246	-0.024
10	0.196	-0.133	0.107	0.207
15	-0.052	-0.192	0.108	0.276
17	-0.046	-0.185	0.048	0.165



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Typical Performance Data

Frequency (MHz)	Harmonics & Sub-Harmonics Levels Vs. Output Frequency														
	-50dBm					-30dBm					0dBm				
	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	-64.52	-63.08	-60.63	-66.82	-62.77	-86.90	-83.07	-70.01	-82.88	-77.08	-102.82	-102.50	-48.30	-103.18	-59.15
375	-63.39	-62.73	-61.04	-61.56	-50.05	-85.52	-84.20	-75.79	-83.58	-71.16	-102.53	-103.36	-49.12	-102.59	-62.20
500	-58.63	-61.46	-55.69	-61.86	-53.24	-80.81	-85.21	-71.53	-82.16	-69.37	-94.55	-102.08	-49.95	-100.13	-62.16
625	-66.26	-63.32	-63.07	-65.37	-61.55	-81.35	-82.33	-73.15	-84.05	-83.53	-103.89	-100.77	-44.67	-97.98	-57.44
750	-63.18	-63.40	-46.39	-62.65	-62.37	-82.01	-85.28	-64.16	-84.42	-83.78	-102.60	-101.12	-45.29	-101.03	-61.13
875	-64.96	-63.19	-39.29	-62.22	-61.90	-84.82	-84.14	-59.60	-82.39	-82.22	-104.63	-103.71	-45.28	-100.58	-61.97
1000	-66.00	-64.31	-43.08	-62.49	-62.21	-83.59	-81.83	-62.95	-82.40	-79.89	-98.69	-103.09	-46.44	-101.49	-63.30
1125	-62.86	-61.03	-48.85	-60.81	-51.87	-83.88	-84.02	-65.40	-80.88	-71.10	-101.03	-100.99	-40.94	-101.46	-53.67
1250	-64.40	-62.87	-54.62	-61.24	-56.38	-83.98	-79.87	-71.95	-82.28	-76.52	-104.78	-102.94	-41.67	-100.75	-57.62
1375	-66.07	-61.24	-47.34	-62.35	-52.82	-83.39	-82.23	-68.15	-81.29	-70.13	-102.15	-99.65	-43.17	-100.77	-62.33
1500	-60.87	-62.09	-54.15	-63.66	-55.62	-82.73	-81.95	-75.36	-81.08	-74.23	-96.63	-100.27	-43.35	-102.14	-68.86
1625	-64.84	-60.93	-53.62	-63.74	-55.48	-84.77	-83.90	-72.12	-83.75	-77.61	-103.00	-99.96	-39.71	-100.93	-64.04
1750	-64.40	-61.16	-48.32	-61.23	-49.64	-79.94	-80.21	-74.31	-80.49	-70.93	-101.47	-101.55	-40.78	-102.36	-65.29
1875	-61.55	-61.54	-52.51	-62.66	-41.16	-82.23	-81.10	-72.41	-84.04	-61.01	-103.04	-98.08	-40.65	-100.73	-64.21
2000	-64.70	-60.41	-47.12	-60.90	-50.13	-83.75	-78.85	-63.58	-82.68	-69.85	-90.42	-102.41	-41.27	-100.54	-68.29
2125	-65.56	-61.84	-55.14	-60.51	-54.11	-83.81	-78.60	-72.13	-78.88	-78.63	-98.65	-100.17	-43.65	-97.00	-68.03
2250	-61.35	-50.64	-38.74	-38.58	-61.88	-82.08	-62.62	-62.29	-58.98	-80.54	-84.99	-60.42	-47.27	-87.82	-72.34
2375	-54.46	-53.97	-52.20	-41.44	-48.26	-75.03	-75.44	-63.33	-61.23	-68.10	-92.46	-65.75	-46.13	-90.51	-72.51
2500	-61.17	-49.77	-46.40	-58.46	-60.15	-82.66	-65.35	-63.71	-73.63	-83.70	-77.49	-66.89	-46.26	-100.95	-74.00
2625	-51.83	-43.50	-38.31	-49.95	-49.70	-71.86	-67.99	-57.46	-71.29	-70.61	-77.35	-70.07	-48.83	-96.86	-73.06
2750	-53.31	-42.33	-44.68	-52.62	-46.96	-68.30	-59.11	-62.22	-71.64	-66.40	-70.79	-66.15	-45.07	-101.69	-71.04
2875	-51.11	-43.04	-42.38	-47.10	-59.93	-75.11	-56.88	-60.64	-67.46	-77.97	-75.16	-66.88	-41.83	-94.48	-70.15
3000	-49.57	-38.84	-56.76	-45.95	-43.03	-77.63	-59.82	-69.98	-65.59	-63.57	-75.43	-68.10	-41.77	-96.56	-67.95
3125	-41.86	-52.80	-52.82	-44.27	-54.14	-61.96	-58.02	-59.48	-64.60	-74.39	-79.78	-69.38	-43.17	-95.40	-72.66
3250	-45.50	-49.57	-46.67	-47.40	-43.94	-64.75	-53.12	-67.84	-67.69	-64.44	-78.96	-68.28	-44.41	-94.70	-71.82
3375	-41.74	-46.57	-44.34	-45.06	-54.69	-62.26	-46.55	-65.61	-65.28	-73.61	-79.89	-67.34	-48.79	-94.83	-72.59
3500	-41.07	-61.83	-53.10	-50.21	-56.36	-61.04	-51.76	-67.76	-69.90	-78.13	-86.73	-77.55	-52.63	-98.12	-65.91
3625	-38.94	-33.72	-49.81	-41.77	-60.21	-62.79	-53.70	-75.10	-61.53	-77.20	-70.05	-89.48	-53.12	-90.77	-57.94
3750	-39.44	-32.17	-42.39	-41.10	-57.12	-60.47	-53.00	-64.66	-61.68	-77.66	-67.90	-80.59	-54.87	-91.22	-57.87
3875	-40.55	-42.21	-53.69	-50.30	-58.01	-61.95	-63.16	-72.28	-68.97	-79.09	-68.11	-89.95	-52.60	-98.25	-67.21
4000	-46.64	-43.69	-40.27	-44.50	-59.02	-66.26	-64.09	-59.80	-65.10	-81.51	-73.68	-93.85	-54.34	-95.13	-74.93



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Typical Performance Data

Frequency (MHz)	Harmonics & Sub-Harmonics Levels Vs. Output Frequency									
	+10dBm					+15dBm				
	F0.5	F1.5	F2	F2.5	F3	F0.5	F1.5	F2	F2.5	F3
250	-102.66	-103.62	-46.67	-101.17	-58.42	-106.31	-108.06	-34.25	-108.74	-37.09
375	-101.75	-101.28	-47.02	-102.78	-61.59	-107.58	-108.04	-35.37	-106.25	-37.98
500	-102.14	-101.22	-47.49	-101.86	-62.75	-100.31	-108.52	-36.19	-105.70	-39.17
625	-102.67	-100.35	-44.16	-100.66	-57.64	-107.72	-106.18	-35.65	-104.76	-38.30
750	-103.06	-100.25	-44.92	-101.85	-61.38	-108.02	-106.44	-36.61	-105.85	-40.71
875	-101.74	-102.63	-45.54	-101.09	-61.83	-106.90	-105.63	-35.92	-102.88	-34.48
1000	-98.14	-101.04	-46.86	-100.34	-62.66	-101.36	-106.23	-37.07	-105.00	-38.88
1125	-102.92	-99.56	-42.37	-100.63	-53.47	-103.94	-108.27	-43.48	-106.11	-53.03
1250	-101.45	-101.02	-43.62	-100.85	-56.47	-108.26	-105.21	-43.75	-106.54	-56.39
1375	-102.39	-102.26	-43.02	-100.00	-61.53	-107.22	-106.33	-30.96	-105.76	-34.94
1500	-98.56	-102.35	-43.01	-100.04	-65.93	-101.38	-106.11	-33.82	-107.36	-40.16
1625	-100.86	-101.16	-39.30	-100.68	-60.44	-103.86	-105.93	-39.58	-105.88	-59.53
1750	-103.30	-98.77	-39.76	-98.63	-64.17	-109.95	-106.46	-38.85	-104.39	-62.78
1875	-100.35	-98.91	-39.84	-99.39	-63.39	-106.42	-106.16	-28.81	-105.24	-31.17
2000	-89.79	-101.38	-40.37	-100.63	-65.59	-92.02	-100.26	-30.57	-104.85	-31.92
2125	-98.03	-98.72	-42.09	-101.39	-64.70	-104.67	-103.77	-30.86	-104.38	-30.74
2250	-84.55	-60.15	-45.60	-95.25	-66.93	-75.95	-60.91	-37.79	-85.93	-43.56
2375	-92.41	-65.34	-44.50	-97.38	-65.51	-74.42	-71.03	-31.59	-89.89	-30.69
2500	-77.65	-66.35	-44.79	-97.77	-63.62	-75.08	-72.56	-32.00	-87.03	-32.65
2625	-78.31	-69.67	-48.21	-99.39	-63.75	-70.40	-73.49	-32.92	-87.38	-30.47
2750	-70.96	-65.71	-44.77	-100.14	-62.79	-65.87	-69.72	-31.47	-81.77	-31.13
2875	-74.99	-66.69	-41.81	-95.64	-62.92	-75.60	-66.25	-43.35	-99.44	-54.00
3000	-75.81	-66.99	-41.80	-100.01	-60.76	-75.94	-66.49	-43.54	-106.14	-53.20
3125	-79.66	-69.24	-43.01	-97.58	-63.91	-69.63	-71.55	-32.69	-94.08	-45.51
3250	-78.87	-68.45	-43.47	-98.88	-63.60	-79.05	-68.17	-44.90	-102.93	-56.32
3375	-78.57	-67.37	-48.17	-100.26	-63.64	-66.80	-70.04	-40.31	-100.42	-49.42
3500	-89.02	-77.40	-50.83	-98.58	-57.91	-89.50	-77.50	-50.54	-105.67	-50.33
3625	-70.91	-81.43	-50.61	-99.94	-55.69	-71.33	-81.32	-50.22	-101.64	-49.31
3750	-68.57	-92.02	-50.95	-99.89	-56.30	-68.89	-94.96	-50.54	-103.94	-49.66
3875	-68.51	-96.91	-50.45	-101.24	-60.35	-68.89	-103.18	-52.51	-106.38	-53.36
4000	-74.43	-101.31	-51.81	-97.28	-66.40	-76.72	-97.86	-48.37	-104.99	-57.38



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Typical Performance Data

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	-94.74	-101.26	-101.61	-119.95	-145.83	-104.11	-112.93	-107.15	-123.35	-146.10
375	-93.15	-99.57	-101.90	-119.67	-144.24	-94.70	-111.24	-108.33	-123.61	-144.55
500	-89.74	-96.14	-96.35	-114.50	-143.70	-93.44	-107.68	-106.38	-123.93	-144.52
625	-86.98	-93.45	-94.12	-111.92	-143.59	-92.60	-105.10	-102.28	-117.57	-144.69
750	-85.13	-92.89	-95.74	-113.59	-143.51	-89.37	-104.06	-101.89	-117.40	-144.78
875	-83.44	-90.32	-91.43	-110.84	-143.57	-90.15	-102.45	-101.85	-118.11	-144.48
1000	-85.32	-89.90	-92.52	-111.62	-142.18	-87.61	-100.92	-100.18	-117.85	-142.98
1060	-84.04	-89.52	-90.37	-110.37	-139.03	-87.43	-101.82	-94.06	-112.59	-140.11
1125	-85.65	-89.09	-91.16	-108.43	-138.70	-85.59	-102.50	-97.55	-112.14	-140.41
1250	-84.50	-88.73	-88.15	-105.13	-138.70	-84.07	-99.85	-96.83	-111.83	-140.31
1375	-80.17	-89.90	-89.30	-108.14	-138.74	-86.76	-98.97	-94.58	-112.10	-140.03
1500	-80.22	-88.83	-89.80	-107.33	-138.57	-85.89	-98.99	-96.01	-111.61	-140.07
1625	-79.87	-87.64	-86.99	-106.39	-138.57	-81.66	-96.21	-94.57	-112.38	-139.87
1750	-78.29	-87.83	-85.12	-103.60	-138.22	-84.39	-98.25	-95.38	-111.92	-139.43
1875	-77.32	-87.51	-86.74	-105.77	-137.65	-81.57	-96.20	-94.32	-112.00	-138.59
2000	-76.31	-85.11	-86.43	-105.03	-136.86	-80.24	-95.79	-94.09	-111.92	-137.89
2125	-78.35	-86.04	-86.60	-108.80	-136.93	-78.83	-96.45	-92.75	-113.10	-137.35
2250	-76.38	-81.95	-84.41	-101.93	-132.52	-82.58	-94.55	-91.59	-106.29	-134.18
2375	-76.42	-81.62	-83.30	-99.86	-132.72	-78.78	-93.23	-90.37	-106.43	-134.16
2500	-76.34	-81.81	-81.98	-98.84	-132.13	-81.91	-94.51	-90.69	-105.71	-133.74
2600	-75.84	-81.56	-81.36	-98.93	-131.39	-79.49	-93.83	-89.16	-104.82	-132.76
2625	-73.18	-82.72	-81.88	-100.54	-131.32	-78.82	-92.29	-88.28	-105.05	-132.59
2750	-76.93	-81.48	-81.93	-100.76	-131.46	-77.26	-93.74	-88.05	-105.03	-132.52
2875	-72.84	-84.34	-82.54	-101.58	-131.75	-78.22	-92.05	-87.24	-105.57	-132.74
3000	-73.48	-81.12	-83.02	-100.20	-131.28	-78.27	-91.97	-89.32	-104.70	-132.76
3125	-73.09	-81.56	-82.17	-100.90	-131.81	-78.17	-90.44	-88.52	-105.49	-133.08
3250	-73.00	-78.93	-80.03	-99.28	-132.27	-76.86	-91.99	-87.97	-106.17	-133.54
3375	-75.42	-79.55	-79.83	-96.26	-132.14	-76.60	-93.04	-88.84	-105.86	-133.45
3500	-72.63	-78.32	-78.96	-97.08	-132.41	-74.30	-89.70	-89.27	-105.96	-133.51
3625	-71.35	-79.09	-79.50	-99.73	-132.20	-75.99	-90.71	-88.31	-106.37	-133.18
3750	-73.03	-78.74	-79.69	-98.56	-131.69	-76.67	-88.76	-88.39	-106.02	-132.76
3875	-72.91	-82.54	-80.52	-100.30	-131.50	-76.64	-88.92	-88.09	-106.08	-132.23
4000	-72.65	-80.36	-80.63	-99.99	-131.57	-76.11	-89.71	-88.49	-106.09	-132.37



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USB Synthesized Signal Generator

SSG-4000HP

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	-93.67	-83.53	-74.03	-74.51	-101.37	-89.19	-78.88	-79.31
0.2	-98.80	-86.47	-79.35	-84.44	-109.79	-95.37	-83.96	-83.51
0.5	-100.48	-88.68	-81.25	-89.05	-109.62	-99.21	-92.23	-86.10
1.0	-102.52	-90.61	-81.83	-88.69	-113.12	-100.52	-92.99	-89.02
2.1	-103.64	-91.54	-82.70	-90.00	-112.24	-99.26	-94.28	-91.14
4.2	-103.65	-89.85	-82.16	-89.21	-110.31	-97.04	-91.16	-89.90
10.4	-100.96	-89.13	-81.88	-87.35	-107.04	-93.43	-88.45	-86.93
19.4	-100.44	-89.37	-80.72	-86.03	-104.72	-92.65	-86.69	-85.89
51.7	-108.46	-99.59	-87.54	-86.84	-112.77	-101.83	-95.11	-93.97
105.5	-121.65	-111.87	-101.95	-103.00	-124.99	-113.76	-107.47	-106.04
150.8	-126.43	-117.73	-108.63	-109.90	-130.62	-119.17	-112.95	-111.14
164.8	-129.51	-119.12	-109.92	-108.79	-131.90	-120.35	-114.27	-112.34
180.2	-130.85	-120.38	-111.52	-110.27	-133.17	-121.61	-115.48	-113.32
197.0	-132.33	-121.64	-113.48	-109.04	-134.14	-122.85	-116.68	-114.44
215.4	-133.60	-122.82	-114.94	-113.36	-135.33	-124.04	-117.79	-115.32
235.6	-135.04	-124.11	-115.82	-114.85	-136.45	-125.27	-119.10	-116.35
257.5	-136.11	-125.30	-117.80	-115.66	-137.56	-126.09	-120.07	-117.40
281.6	-137.42	-126.31	-118.36	-115.60	-138.61	-127.31	-121.12	-118.35
307.9	-138.29	-127.38	-120.28	-117.71	-139.47	-128.28	-122.21	-119.32
336.6	-139.39	-128.41	-121.16	-117.98	-140.49	-129.33	-123.00	-120.23
368.0	-140.22	-129.39	-122.30	-118.53	-141.33	-130.23	-124.19	-121.17
402.4	-141.24	-130.24	-123.38	-121.40	-142.29	-131.24	-125.16	-121.95
440.0	-142.14	-131.27	-124.53	-120.92	-143.31	-132.32	-126.33	-122.88
481.0	-143.01	-132.10	-125.36	-121.61	-143.92	-133.21	-127.28	-123.73
525.9	-143.66	-133.05	-126.38	-123.07	-144.73	-134.18	-128.11	-124.64
575.0	-144.37	-133.99	-127.35	-124.76	-145.34	-135.04	-129.02	-125.46
628.7	-145.02	-134.88	-128.19	-126.05	-146.00	-135.85	-129.81	-126.28
687.4	-145.77	-135.80	-129.27	-126.87	-146.45	-136.83	-130.68	-127.18
751.6	-146.28	-136.58	-130.22	-127.24	-146.95	-137.56	-131.36	-127.99
821.7	-146.81	-137.47	-131.11	-128.02	-147.53	-138.39	-132.38	-128.86
898.4	-146.38	-138.27	-131.51	-129.19	-146.75	-139.13	-132.72	-129.70
982.3	-147.75	-139.00	-132.61	-129.62	-148.01	-138.86	-133.85	-129.42
1000.0	-147.19	-139.21	-132.63	-130.40	-145.71	-134.38	-133.18	-124.38



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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	-71.43	-73.58	-75.58	-73.36
1000	-59.10	-60.27	-70.64	-70.56
2625	-56.51	-56.86	-54.05	-55.76
3875	-51.93	-54.86	-58.22	-60.05

Frequency (MHz)	Spurious @Frequency Resolution 100KHz vs. Frequency Offset (dBc)			
	Spurious @-50KHz Offset	Spurious @+50KHz Offset	Spurious @-100KHz Offset	Spurious @+100KHz Offset
250	-74.75	-73.04	-73.51	-74.71
1000	-73.61	-73.20	-71.98	-70.76
2625	-63.24	-65.56	-62.17	-63.37
3875	-56.55	-60.48	-59.04	-57.07

Frequency (MHz)	Spurious @Frequency Resolution 100KHz vs. Frequency Offset (dBc)			
	Spurious @-1000KHz Offset	Spurious @+1000KHz Offset	Spurious @-10000KHz Offset	Spurious @+10000KHz Offset
250	-96.71	-99.06	-105.42	-102.68
1000	-103.16	-101.48	-98.14	-97.82
2625	-64.91	-64.63	-84.96	-86.61
3875	-58.64	-58.66	-82.04	-83.19



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