USB / Ethernet / Daisy Chain

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 0°C.

Freq. (MHz)	Power deviation from nominal vs. Output Frequency (dB)									
	-50 dBm	-45 dBm	-40 dBm	-30 dBm	-20 dBm	-10 dBm	0 dBm	+10 dBm	+15 dBm	+20 dBm
5000	0.22	0.08	0.15	0.18	0.18	0.14	0.04	0.03	-0.07	0.17
5050	0.04	-0.03	0.04	0.16	0.19	0.13	-0.01	0.04	-0.05	0.19
5100	-0.14	-0.13	-0.08	0.15	0.20	0.12	-0.06	0.05	-0.03	0.21
5150	-0.16	-0.14	-0.06	0.07	0.07	0.05	-0.07	0.03	-0.01	0.28
5200	-0.18	-0.15	-0.05	0.00	-0.06	-0.02	-0.08	0.00	0.01	0.35
5300	0.02	-0.06	-0.09	0.09	-0.01	-0.03	0.03	0.13	0.16	0.48
5400	-0.13	-0.10	-0.10	0.08	0.02	0.11	-0.02	0.15	0.23	0.55
5500	-0.42	-0.26	-0.19	0.09	0.04	0.03	-0.05	0.03	0.16	0.46
5600	0.18	0.00	-0.08	-0.03	-0.08	-0.10	-0.03	0.05	0.15	0.38
5700	0.26	0.04	-0.04	0.05	0.02	-0.08	-0.12	0.01	0.09	0.28
5800	-0.23	-0.23	-0.19	0.00	-0.08	-0.15	-0.09	0.01	0.11	0.34
5900	-0.07	-0.17	-0.15	0.09	0.06	-0.26	-0.14	0.05	0.09	0.36
6000	-0.33	-0.24	-0.29	-0.01	0.00	-0.10	-0.02	-0.04	0.00	0.46
6100	-0.23	-0.16	-0.10	0.06	0.04	-0.17	-0.10	0.02	0.05	0.35
6200	0.40	0.13	-0.16	-0.07	-0.10	-0.23	-0.01	0.16	0.23	0.31
6300	-0.78	-0.43	-0.34	-0.09	-0.13	-0.32	-0.24	-0.09	-0.01	0.16
6400	-0.16	-0.12	-0.22	-0.05	-0.05	-0.19	-0.05	0.16	0.09	0.35
6500	0.14	0.05	-0.04	0.02	0.02	-0.14	-0.02	0.10	0.08	0.42
6600	-0.05	-0.24	-0.20	-0.07	-0.06	-0.08	0.00	0.08	0.15	0.37
6700	-0.30	-0.18	-0.16	-0.05	-0.11	-0.15	-0.06	0.07	0.03	0.31
6800	-0.38	-0.27	-0.22	-0.07	0.00	-0.07	-0.04	0.20	0.20	0.36
6900	-0.13	-0.02	-0.16	-0.09	-0.07	-0.11	0.01	-0.01	0.07	0.30
7000	-0.05	-0.22	-0.31	-0.18	-0.07	-0.21	-0.10	0.01	0.05	0.26
7100	-0.09	-0.25	-0.24	-0.12	-0.08	-0.15	-0.04	0.17	0.12	0.29
7200	-0.28	-0.34	-0.15	-0.04	-0.01	0.01	0.09	0.25	0.21	0.40
7300	-0.22	-0.27	-0.16	-0.03	-0.14	-0.04	0.09	0.24	0.20	0.38
7400	-0.20	-0.31	-0.32	-0.10	-0.05	0.01	0.10	0.26	0.20	0.34
7500	-0.35	-0.31	-0.17	-0.07	-0.07	-0.06	0.04	0.13	0.15	0.28
7600	-0.44	-0.21	-0.07	-0.18	-0.16	-0.15	-0.01	0.13	0.14	0.30
7700	0.09	-0.17	-0.19	-0.17	-0.18	-0.19	-0.06	0.01	0.07	0.25
7800	-0.16	-0.27	-0.13	-0.15	-0.14	-0.06	0.05	0.14	0.12	0.28
7900	-0.24	-0.25	-0.04	-0.05	-0.01	0.00	0.09	0.19	0.14	0.32
8000	-0.38	-0.24	-0.05	-0.01	-0.05	-0.01	0.08	0.21	0.15	0.31
8100	-0.04	-0.06	0.08	-0.09	-0.14	0.01	0.09	0.21	0.12	0.28
8200	0.10	-0.01	-0.03	-0.02	0.00	0.12	0.20	0.32	0.24	0.37
8300	-0.08	-0.23	-0.13	-0.18	-0.16	0.01	0.04	0.06	0.09	0.21
8400	-0.34	-0.45	-0.34	-0.14	-0.07	-0.10	-0.01	0.11	0.13	0.28
8500	-0.21	-0.23	-0.14	-0.24	-0.20	-0.22	-0.07	0.03	-0.01	0.16
8600	0.13	-0.01	-0.02	-0.07	-0.11	-0.11	0.06	0.12	0.18	0.30
8700	-0.19	-0.27	-0.02	-0.16	-0.19	-0.12	-0.07	0.02	0.09	0.27
8750	-0.31	-0.27	-0.06	-0.08	-0.09	-0.01	0.07	0.15	0.21	0.36
8800	-0.43	-0.26	-0.10	0.00	0.01	0.10	0.22	0.28	0.34	0.45
8850	-0.23	-0.15	-0.02	-0.03	-0.02	0.00	0.13	0.19	0.25	0.39
8900	-0.03	-0.03	0.06	-0.06	-0.05	-0.10	0.04	0.10	0.17	0.32
8950	-0.14	-0.19	-0.05	-0.12	-0.15	-0.11	0.01	0.11	0.15	0.27
9000	-0.24	-0.34	-0.17	-0.18	-0.24	-0.13	-0.01	0.13	0.13	0.22

Signal Generator

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 0°C.

Power (dBm)	Power deviation from nominal vs. Output Power (dB)								
	5.0 GHz	5.5 GHz	6.0 GHz	6.5 GHz	7.0 GHz	7.5 GHz	8.0 GHz	8.5 GHz	9.0 GHz
-50	0.22	-0.42	-0.33	0.14	-0.05	-0.35	-0.38	-0.21	-0.24
-49	0.19	-0.38	-0.31	0.12	-0.08	-0.34	-0.36	-0.22	-0.26
-48	0.16	-0.35	-0.29	0.10	-0.12	-0.34	-0.33	-0.22	-0.28
-47	0.13	-0.32	-0.28	0.09	-0.15	-0.33	-0.30	-0.22	-0.30
-46	0.10	-0.29	-0.26	0.07	-0.18	-0.32	-0.27	-0.23	-0.32
-45	0.08	-0.26	-0.24	0.05	-0.22	-0.31	-0.24	-0.23	-0.34
-44	0.09	-0.24	-0.25	0.03	-0.23	-0.28	-0.20	-0.21	-0.30
-43	0.11	-0.23	-0.26	0.01	-0.25	-0.25	-0.16	-0.19	-0.27
-42	0.12	-0.22	-0.27	-0.01	-0.27	-0.23	-0.13	-0.18	-0.24
-41	0.14	-0.20	-0.28	-0.02	-0.29	-0.20	-0.09	-0.16	-0.20
-40	0.15	-0.19	-0.29	-0.04	-0.31	-0.17	-0.05	-0.14	-0.17
-38	0.19	-0.11	-0.22	-0.02	-0.29	-0.11	-0.09	-0.14	-0.19
-36	0.23	-0.04	-0.15	0.01	-0.26	-0.05	-0.12	-0.13	-0.22
-34	0.23	0.02	-0.09	0.02	-0.24	-0.03	-0.12	-0.15	-0.22
-32	0.21	0.05	-0.05	0.02	-0.21	-0.05	-0.06	-0.19	-0.20
-30	0.18	0.09	-0.01	0.02	-0.18	-0.07	-0.01	-0.24	-0.18
-28	0.19	0.09	-0.01	0.04	-0.15	-0.06	-0.02	-0.24	-0.18
-26	0.19	0.08	-0.02	0.05	-0.13	-0.05	-0.04	-0.25	-0.18
-24	0.19	0.08	-0.02	0.05	-0.10	-0.05	-0.05	-0.24	-0.19
-22	0.18	0.06	-0.01	0.03	-0.08	-0.06	-0.05	-0.22	-0.22
-20	0.18	0.04	0.00	0.02	-0.07	-0.07	-0.05	-0.20	-0.24
-18	0.16	0.07	-0.03	0.01	-0.14	-0.10	-0.05	-0.23	-0.19
-16	0.15	0.10	-0.05	0.00	-0.22	-0.12	-0.04	-0.27	-0.14
-14	0.14	0.10	-0.07	-0.03	-0.25	-0.12	-0.03	-0.27	-0.12
-12	0.14	0.07	-0.09	-0.08	-0.23	-0.09	-0.02	-0.25	-0.12
-10	0.14	0.03	-0.10	-0.14	-0.21	-0.06	-0.01	-0.22	-0.13
-8	0.14	0.05	-0.08	-0.10	-0.18	-0.03	0.02	-0.18	-0.10
-6	0.13	0.06	-0.06	-0.06	-0.16	0.01	0.04	-0.14	-0.08
-4	0.11	0.04	-0.04	-0.04	-0.14	0.03	0.06	-0.11	-0.06
-2	0.08	0.00	-0.03	-0.03	-0.12	0.04	0.07	-0.09	-0.03
0	0.04	-0.05	-0.02	-0.02	-0.10	0.04	0.08	-0.07	-0.01
+2	0.03	-0.04	-0.01	0.01	-0.06	0.07	0.12	-0.02	0.01
+4	0.03	-0.04	-0.01	0.05	-0.01	0.11	0.15	0.03	0.04
+6	0.02	-0.02	-0.01	0.07	0.01	0.12	0.18	0.05	0.07
+8	0.03	0.01	-0.03	0.08	0.01	0.13	0.19	0.04	0.10
+10	0.03	0.03	-0.04	0.10	0.01	0.13	0.21	0.03	0.13
+11	0.01	0.06	-0.03	0.09	0.01	0.13	0.20	0.02	0.13
+12	-0.01	0.09	-0.02	0.09	0.02	0.14	0.19	0.01	0.13
+13	-0.03	0.11	-0.02	0.08	0.03	0.14	0.17	0.01	0.13
+14	-0.05	0.14	-0.01	0.08	0.04	0.15	0.16	0.00	0.13
+15	-0.07	0.16	0.00	0.08	0.05	0.15	0.15	-0.01	0.13
+16	-0.03	0.22	0.09	0.15	0.09	0.18	0.18	0.02	0.15
+17	0.02	0.28	0.18	0.21	0.13	0.20	0.21	0.06	0.17
+18	0.07	0.34	0.28	0.28	0.17	0.23	0.25	0.09	0.19
+19	0.12	0.40	0.37	0.35	0.22	0.26	0.28	0.13	0.21
+20	0.17	0.46	0.46	0.42	0.26	0.28	0.31	0.16	0.22

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 0°C.

Freq. (MHz)	Harmonics levels vs. Output Frequency (dBc)									
	F2					F3				
	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm
5000	-14.42	-16.64	-19.10	-13.76	-18.49	-27.05	-32.47	-36.60	-49.46	-29.24
5050	-15.43	-17.43	-19.60	-14.36	-18.80	-29.40	-36.40	-40.07	-56.52	-31.87
5100	-16.45	-18.21	-20.11	-14.97	-19.12	-31.75	-40.33	-43.53	-63.57	-34.51
5150	-17.29	-18.28	-20.12	-15.10	-19.11	-38.93	-43.26	-47.84	-62.66	-37.76
5200	-18.13	-18.34	-20.14	-15.23	-19.10	-46.11	-46.18	-52.15	-61.75	-41.01
5300	-15.73	-18.15	-20.63	-15.33	-19.00	-43.32	-41.94	-60.37	-73.96	-48.09
5400	-16.70	-17.97	-20.00	-15.33	-19.37	-52.03	-47.49	-59.62	-69.02	-55.71
5500	-18.27	-17.79	-18.88	-15.38	-19.64	-52.60	-44.81	-62.58	-82.15	-63.98
5600	-13.83	-15.68	-18.23	-15.34	-20.21	-55.43	-48.81	-69.34	-81.08	-67.87
5700	-10.30	-13.99	-17.75	-15.44	-20.64	-55.87	-43.08	-67.05	-76.63	-65.36
5800	-10.26	-15.22	-18.11	-15.65	-20.95	-56.68	-41.51	-61.95	-77.17	-63.59
5900	-15.65	-17.22	-18.64	-15.92	-20.92	-57.23	-42.23	-64.00	-68.82	-61.93
6000	-15.39	-17.93	-19.62	-16.18	-21.10	-52.44	-41.79	-59.63	-68.15	-61.02
6100	-21.97	-20.40	-20.43	-16.78	-20.86	-50.62	-40.04	-65.83	-69.18	-60.99
6200	-18.90	-19.70	-20.93	-16.73	-20.77	-50.81	-41.09	-63.98	-67.66	-60.28
6300	-21.87	-21.13	-21.41	-16.68	-20.94	-49.56	-41.33	-59.45	-67.31	-59.60
6400	-22.13	-20.76	-21.07	-17.19	-21.41	-51.27	-40.73	-60.69	-65.48	-58.06
6500	-18.58	-19.31	-20.39	-17.62	-21.70	-52.90	-43.41	-59.70	-64.27	-56.08
6600	-15.88	-17.88	-19.47	-17.65	-21.78	-51.34	-38.14	-58.89	-64.99	-54.87
6700	-16.46	-17.80	-18.82	-17.35	-21.49	-51.40	-43.97	-61.08	-64.04	-54.13
6800	-15.66	-16.77	-18.02	-16.96	-21.01	-55.99	-41.77	-57.08	-75.20	-55.13
6900	-11.76	-15.00	-17.21	-16.39	-20.83	-52.21	-43.46	-65.82	-74.34	-55.39
7000	-10.52	-14.06	-16.23	-15.61	-20.18	-57.00	-44.95	-62.55	-71.17	-56.31
7100	-12.09	-15.10	-16.33	-15.87	-20.59	-52.85	-42.08	-62.25	-76.68	-57.55
7200	-19.90	-19.97	-20.19	-19.76	-24.69	-52.05	-40.33	-62.17	-73.64	-59.65
7300	-17.17	-18.80	-19.42	-18.79	-24.20	-49.42	-42.93	-65.28	-75.39	-64.85
7400	-18.56	-20.27	-21.36	-20.46	-26.34	-49.71	-41.45	-60.55	-76.17	-68.34
7500	-24.68	-25.21	-24.50	-22.93	-32.80	-50.43	-39.68	-59.47	-76.87	-72.63
7600	-22.22	-25.86	-28.04	-26.84	-37.05	-53.47	-42.28	-60.82	-75.72	-76.66
7700	-54.36	-38.15	-32.59	-31.14	-42.10	-55.22	-41.81	-63.03	-79.15	-89.05
7800	-26.61	-33.18	-36.17	-35.86	-45.76	-53.69	-42.54	-66.57	-84.10	-86.07
7900	-25.35	-36.13	-40.84	-40.89	-46.78	-60.38	-39.21	-65.28	-86.65	-81.43
8000	-34.32	-37.90	-48.64	-46.28	-48.62	-49.75	-44.10	-61.99	-79.61	-82.02
8100	-58.81	-44.17	-54.19	-52.44	-50.57	-50.97	-40.77	-58.72	-80.90	-81.09
8200	-47.87	-50.37	-56.22	-58.16	-52.15	-51.51	-41.36	-62.69	-80.19	-80.32
8300	-49.33	-47.32	-60.32	-61.65	-53.53	-53.32	-40.91	-56.43	-82.28	-82.44
8400	-47.59	-42.45	-60.42	-59.06	-54.44	-54.82	-39.40	-64.52	-81.56	-83.67
8500	-46.55	-41.46	-61.09	-57.11	-55.00	-54.19	-39.01	-63.89	-78.02	-85.31
8600	-47.68	-43.26	-62.57	-55.93	-54.81	-57.13	-35.72	-56.80	-78.97	-83.09
8700	-49.55	-42.08	-55.93	-54.58	-54.79	-53.72	-40.72	-57.83	-81.86	-85.52
8750	-48.16	-39.84	-57.09	-54.13	-54.89	-56.86	-38.35	-56.76	-79.93	-85.66
8800	-46.78	-37.59	-58.25	-53.68	-54.99	-59.99	-35.98	-55.70	-78.01	-85.81
8850	-48.40	-40.19	-56.95	-53.34	-54.95	-56.87	-38.78	-58.44	-77.08	-87.16
8900	-50.01	-42.80	-55.64	-52.99	-54.91	-53.75	-41.58	-61.18	-76.15	-88.51
8950	-48.89	-43.03	-54.02	-53.00	-55.15	-56.20	-41.47	-58.93	-78.91	-87.62
9000	-47.76	-43.26	-52.40	-53.02	-55.40	-58.65	-41.36	-56.69	-81.68	-86.73

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 0°C.

Freq. (MHz)	Phase Noise vs. Output Frequency (dBc / Hz)				
	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz
5000	-91.15	-111.08	-117.26	-125.58	-130.40
5050	-92.31	-107.93	-117.40	-125.24	-132.19
5100	-93.47	-104.78	-117.53	-124.90	-133.97
5150	-97.03	-108.17	-117.35	-124.46	-132.59
5200	-100.58	-111.55	-117.17	-124.02	-131.21
5300	-100.43	-111.90	-117.09	-124.80	-133.88
5400	-100.72	-111.77	-117.08	-123.40	-132.37
5500	-100.65	-111.71	-116.82	-122.25	-133.68
5600	-100.58	-111.19	-116.61	-123.86	-134.59
5700	-99.90	-111.29	-116.46	-122.97	-134.96
5800	-100.16	-111.15	-116.40	-121.95	-135.41
5900	-100.02	-111.37	-116.37	-121.56	-133.63
6000	-100.41	-110.95	-116.03	-120.44	-133.81
6100	-99.72	-110.99	-116.29	-119.04	-134.01
6200	-99.86	-111.16	-115.97	-119.15	-134.14
6300	-99.77	-110.70	-115.97	-118.62	-134.50
6400	-99.41	-110.69	-115.83	-118.13	-132.85
6500	-99.18	-110.43	-115.62	-118.06	-134.04
6600	-99.19	-110.33	-115.33	-120.10	-135.22
6700	-98.75	-110.29	-114.98	-120.30	-135.36
6800	-99.31	-110.02	-115.22	-118.80	-134.75
6900	-98.82	-109.90	-114.94	-118.46	-134.92
7000	-98.45	-109.64	-114.87	-117.98	-134.78
7100	-98.74	-109.64	-114.36	-118.04	-133.90
7200	-98.79	-109.36	-114.81	-117.80	-135.00
7300	-98.35	-109.04	-114.38	-117.96	-134.67
7400	-98.12	-109.17	-114.45	-117.55	-134.51
7500	-97.79	-108.81	-113.57	-123.36	-134.90
7600	-97.76	-108.99	-113.95	-123.32	-134.18
7700	-97.89	-108.87	-113.60	-123.62	-134.76
7800	-97.99	-108.57	-113.85	-122.47	-134.30
7900	-97.58	-108.47	-113.51	-122.48	-134.80
8000	-97.47	-108.74	-113.49	-121.10	-134.85
8100	-97.04	-108.28	-113.48	-121.02	-134.57
8200	-97.37	-108.24	-113.90	-120.75	-134.20
8300	-97.15	-108.07	-113.45	-120.01	-133.80
8400	-97.48	-108.25	-113.39	-119.44	-135.74
8500	-96.52	-108.11	-113.09	-119.45	-133.64
8600	-97.25	-107.79	-112.88	-119.38	-134.69
8700	-96.89	-107.65	-112.71	-123.28	-134.41
8750	-96.78	-107.58	-112.77	-122.25	-134.26
8800	-96.67	-107.50	-112.83	-121.21	-134.10
8850	-96.66	-107.51	-112.82	-121.49	-134.41
8900	-96.64	-107.51	-112.80	-121.76	-134.72
8950	-96.42	-107.48	-112.58	-121.32	-134.48
9000	-96.19	-107.44	-112.36	-120.87	-134.23

Freq. (MHz)	Power (dBM) Max
5000	23.95
5050	24.13
5100	24.30
5150	24.39
5200	24.49
5300	24.36
5400	24.19
5500	24.03
5600	23.76
5700	23.47
5800	23.29
5900	23.14
6000	23.00
6100	22.90
6200	22.86
6300	22.91
6400	22.85
6500	23.27
6600	23.74
6700	24.05
6800	24.45
6900	24.77
7000	25.02
7100	25.21
7200	25.23
7300	25.13
7400	25.13
7500	25.11
7600	24.89
7700	24.73
7800	24.64
7900	24.55
8000	24.47
8100	24.48
8200	24.47
8300	24.40
8400	24.35
8500	24.29
8600	24.23
8700	24.17
8750	24.17
8800	24.17
8850	24.17
8900	24.17
8950	24.16
9000	24.15

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 0°C.

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)				
	5.0 GHz	6.0 GHz	7.0 GHz	8.0 GHz	9.0 GHz
1	-91.15	-100.41	-98.45	-97.47	-96.19
10	-111.08	-110.95	-109.64	-108.74	-107.44
100	-117.26	-116.03	-114.87	-113.49	-112.36
1000	-125.58	-120.44	-117.98	-121.10	-120.87
10000	-130.40	-133.81	-134.78	-134.85	-134.23

Freq. (MHz)	Spurious (dBc)
5000	-66.60
5050	-66.54
5100	-66.48
5150	-66.42
5200	-66.36
5300	-66.28
5400	-66.23
5500	-66.18
5600	-66.26
5700	-66.33
5800	-66.33
5900	-66.24
6000	-66.16
6100	-65.77
6200	-65.39
6300	-65.17
6400	-65.10
6500	-65.04
6600	-65.52
6700	-66.01
6800	-66.48
6900	-66.94
7000	-67.40
7100	-66.80
7200	-66.20
7300	-65.81
7400	-65.65
7500	-65.48
7600	-64.60
7700	-63.71
7800	-64.04
7900	-65.58
8000	-67.13
8100	-66.47
8200	-65.81
8300	-65.26
8400	-64.83
8500	-64.39
8600	-65.24
8700	-66.08
8750	-66.50
8800	-66.09
8850	-65.69
8900	-65.29
8950	-64.89
9000	-64.48

Note: Spurious was measured in offsets of 100 kHz to 150 MHz.

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 25°C.

Freq. (MHz)	Power deviation from nominal vs. Output Frequency (dB)									
	-50 dBm	-45 dBm	-40 dBm	-30 dBm	-20 dBm	-10 dBm	0 dBm	+10 dBm	+15 dBm	+20 dBm
5000	0.34	0.31	0.40	0.32	0.34	0.32	0.00	0.07	0.02	0.09
5050	0.27	0.25	0.31	0.32	0.33	0.31	0.01	0.08	0.08	0.14
5100	0.19	0.18	0.22	0.33	0.32	0.29	0.02	0.10	0.14	0.19
5150	0.21	0.18	0.23	0.25	0.28	0.28	0.02	0.09	0.13	0.18
5200	0.23	0.19	0.24	0.16	0.23	0.27	0.02	0.08	0.12	0.17
5300	0.21	0.14	0.18	0.24	0.27	0.27	0.18	0.24	0.25	0.27
5400	0.21	0.16	0.23	0.16	0.16	0.09	0.05	0.11	0.18	0.20
5500	0.16	0.17	0.22	0.24	0.26	0.10	-0.06	0.10	0.13	0.26
5600	0.18	0.14	0.17	0.12	0.16	0.05	0.07	0.12	0.14	0.36
5700	0.09	0.15	0.16	0.21	0.24	0.04	0.05	0.11	0.11	0.34
5800	0.09	0.11	0.16	0.11	0.14	0.07	0.07	0.15	0.15	0.30
5900	0.24	0.16	0.19	0.19	0.22	0.06	0.03	0.14	0.16	0.19
6000	0.15	0.09	0.14	0.14	0.13	0.08	0.08	0.16	0.17	0.26
6100	0.12	0.14	0.16	0.14	0.19	0.04	0.00	0.11	0.11	0.26
6200	0.22	0.14	0.10	0.12	0.11	0.09	0.08	0.20	0.16	0.32
6300	0.15	0.20	0.17	0.12	0.13	0.03	-0.02	0.04	0.11	0.19
6400	0.08	0.06	0.10	0.08	0.10	0.09	0.06	0.20	0.24	0.19
6500	0.16	0.14	0.15	0.09	0.10	0.02	-0.01	0.13	0.20	0.21
6600	0.06	-0.01	0.05	0.11	0.10	0.13	0.09	0.16	0.26	0.31
6700	0.22	0.19	0.18	0.11	0.10	0.07	0.02	0.16	0.17	0.26
6800	0.08	0.08	0.07	0.12	0.09	0.12	0.08	0.25	0.20	0.28
6900	0.06	0.07	0.10	0.09	0.06	0.07	0.05	0.09	0.13	0.21
7000	0.08	0.05	0.05	0.10	0.11	0.07	-0.01	0.10	0.11	0.17
7100	0.17	0.11	0.10	0.05	0.07	0.09	0.06	0.19	0.14	0.15
7200	0.11	-0.03	0.13	0.07	0.13	0.16	0.10	0.20	0.23	0.19
7300	0.07	0.05	0.16	0.07	0.12	0.12	0.07	0.09	0.23	0.17
7400	0.07	0.06	0.07	0.08	0.13	0.18	0.12	0.14	0.29	0.22
7500	0.02	0.15	0.04	0.07	0.08	0.07	0.06	0.08	0.19	0.12
7600	-0.07	0.02	0.05	0.04	0.08	0.11	0.12	0.15	0.19	0.18
7700	0.13	0.12	0.00	0.01	0.05	0.05	0.08	0.06	0.14	0.14
7800	-0.09	-0.02	0.02	0.07	0.09	0.12	0.14	0.10	0.21	0.19
7900	0.01	0.05	0.03	0.02	0.07	0.10	0.07	0.09	0.17	0.14
8000	0.03	0.04	0.05	0.04	0.09	0.12	0.11	0.15	0.22	0.19
8100	0.04	0.07	0.11	-0.01	0.03	0.09	0.06	0.13	0.21	0.14
8200	0.09	0.02	0.01	0.04	0.07	0.16	0.13	0.22	0.28	0.21
8300	0.09	0.11	0.03	-0.01	0.04	0.11	0.08	0.11	0.21	0.18
8400	0.08	-0.06	-0.04	0.03	0.07	0.16	0.09	0.17	0.23	0.23
8500	0.11	0.09	0.04	0.00	-0.01	0.06	0.03	0.11	0.15	0.14
8600	-0.02	-0.01	-0.05	0.07	0.20	0.14	0.12	0.19	0.20	0.19
8700	0.23	0.08	0.09	-0.05	0.03	0.04	0.03	0.12	0.09	0.08
8750	0.07	0.06	0.03	-0.02	0.11	0.10	0.09	0.17	0.13	0.13
8800	-0.09	0.03	-0.02	0.01	0.18	0.16	0.16	0.22	0.16	0.18
8850	-0.03	0.07	0.03	-0.01	0.10	0.11	0.09	0.16	0.12	0.13
8900	0.02	0.10	0.09	-0.04	0.02	0.06	0.02	0.11	0.08	0.08
8950	0.01	0.02	0.02	-0.01	0.08	0.11	0.08	0.15	0.14	0.14
9000	0.00	-0.06	-0.06	0.01	0.15	0.17	0.13	0.18	0.20	0.19

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 25°C.

Power (dBm)	Power deviation from nominal vs. Output Power (dB)								
	5.0 GHz	5.5 GHz	6.0 GHz	6.5 GHz	7.0 GHz	7.5 GHz	8.0 GHz	8.5 GHz	9.0 GHz
-50	0.34	0.16	0.15	0.16	0.08	0.02	0.03	0.11	0.00
-49	0.34	0.16	0.14	0.16	0.08	0.05	0.03	0.10	-0.01
-48	0.33	0.16	0.13	0.15	0.07	0.07	0.04	0.10	-0.03
-47	0.33	0.17	0.11	0.15	0.06	0.10	0.04	0.10	-0.04
-46	0.32	0.17	0.10	0.14	0.06	0.12	0.04	0.09	-0.05
-45	0.31	0.17	0.09	0.14	0.05	0.15	0.04	0.09	-0.06
-44	0.33	0.18	0.10	0.14	0.05	0.12	0.04	0.08	-0.06
-43	0.35	0.19	0.11	0.14	0.05	0.10	0.04	0.07	-0.06
-42	0.36	0.20	0.12	0.14	0.05	0.08	0.04	0.06	-0.06
-41	0.38	0.21	0.13	0.15	0.05	0.06	0.04	0.05	-0.06
-40	0.40	0.22	0.14	0.15	0.05	0.04	0.05	0.04	-0.06
-38	0.39	0.22	0.13	0.16	0.07	0.05	0.03	0.04	-0.07
-36	0.39	0.21	0.13	0.17	0.08	0.05	0.00	0.04	-0.08
-34	0.37	0.22	0.13	0.15	0.09	0.06	0.00	0.03	-0.06
-32	0.35	0.23	0.13	0.12	0.09	0.06	0.02	0.02	-0.03
-30	0.32	0.24	0.14	0.09	0.10	0.07	0.04	0.00	0.01
-28	0.32	0.26	0.11	0.10	0.09	0.07	0.06	-0.01	0.01
-26	0.31	0.28	0.08	0.11	0.08	0.08	0.07	-0.02	0.01
-24	0.32	0.29	0.08	0.11	0.08	0.08	0.08	-0.02	0.04
-22	0.33	0.27	0.10	0.11	0.10	0.08	0.09	-0.01	0.10
-20	0.34	0.26	0.13	0.10	0.11	0.08	0.09	-0.01	0.15
-18	0.34	0.26	0.13	0.08	0.09	0.08	0.12	-0.01	0.15
-16	0.35	0.27	0.13	0.06	0.07	0.08	0.15	-0.01	0.15
-14	0.35	0.24	0.12	0.04	0.06	0.08	0.16	0.00	0.15
-12	0.34	0.17	0.10	0.03	0.06	0.07	0.14	0.03	0.16
-10	0.32	0.10	0.08	0.02	0.07	0.07	0.12	0.06	0.17
-8	0.20	0.06	0.08	0.03	0.03	0.07	0.13	0.06	0.14
-6	0.08	0.03	0.08	0.04	0.00	0.07	0.13	0.06	0.12
-4	0.01	0.00	0.07	0.03	-0.02	0.07	0.13	0.05	0.11
-2	0.01	-0.03	0.08	0.01	-0.01	0.06	0.12	0.04	0.12
0	0.00	-0.06	0.08	-0.01	-0.01	0.06	0.11	0.03	0.13
+2	0.00	-0.01	0.07	0.04	0.00	0.07	0.12	0.04	0.15
+4	0.00	0.04	0.07	0.09	0.02	0.08	0.12	0.04	0.16
+6	0.01	0.07	0.08	0.11	0.04	0.08	0.13	0.06	0.17
+8	0.04	0.08	0.12	0.12	0.07	0.08	0.14	0.09	0.18
+10	0.07	0.10	0.16	0.13	0.10	0.08	0.15	0.11	0.18
+11	0.06	0.10	0.16	0.14	0.10	0.10	0.17	0.12	0.19
+12	0.05	0.11	0.16	0.16	0.10	0.12	0.18	0.13	0.19
+13	0.04	0.12	0.16	0.17	0.10	0.15	0.19	0.13	0.19
+14	0.03	0.13	0.17	0.19	0.10	0.17	0.21	0.14	0.20
+15	0.02	0.13	0.17	0.20	0.11	0.19	0.22	0.15	0.20
+16	0.04	0.16	0.19	0.20	0.12	0.18	0.21	0.14	0.20
+17	0.05	0.19	0.21	0.21	0.13	0.16	0.21	0.14	0.20
+18	0.06	0.21	0.22	0.21	0.14	0.15	0.20	0.14	0.19
+19	0.07	0.24	0.24	0.21	0.16	0.13	0.19	0.14	0.19
+20	0.09	0.26	0.26	0.21	0.17	0.12	0.19	0.14	0.19

Signal Generator

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 25°C.

Freq. (MHz)	Harmonics levels vs. Output Frequency (dBc)									
	F2					F3				
	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm
5000	-14.17	-16.46	-19.00	-13.71	-19.03	-29.10	-33.61	-38.84	-49.72	-30.27
5050	-15.20	-17.16	-19.54	-14.33	-19.32	-34.31	-37.15	-41.97	-53.95	-33.10
5100	-16.23	-17.87	-20.09	-14.96	-19.61	-39.52	-40.69	-45.10	-58.19	-35.94
5150	-16.80	-18.17	-20.20	-15.12	-19.58	-42.77	-41.04	-48.14	-60.33	-39.24
5200	-17.36	-18.46	-20.31	-15.28	-19.55	-46.01	-41.38	-51.18	-62.47	-42.55
5300	-17.37	-18.71	-20.73	-15.42	-19.39	-48.80	-44.26	-62.02	-68.01	-49.72
5400	-17.61	-18.09	-19.82	-15.39	-19.68	-55.27	-39.07	-65.44	-71.31	-57.21
5500	-16.51	-17.07	-18.88	-15.45	-20.18	-58.98	-45.90	-61.04	-84.16	-65.93
5600	-13.30	-15.91	-18.59	-15.99	-20.94	-55.41	-45.63	-63.23	-77.33	-68.68
5700	-10.53	-14.39	-18.01	-15.79	-21.10	-56.51	-41.74	-65.16	-74.95	-65.36
5800	-11.15	-15.87	-18.29	-15.64	-21.27	-56.84	-40.87	-62.26	-73.66	-64.04
5900	-14.68	-17.30	-18.91	-15.97	-21.40	-56.51	-42.22	-63.53	-70.05	-62.59
6000	-18.17	-19.63	-20.24	-16.46	-21.41	-57.14	-43.22	-62.19	-68.55	-61.65
6100	-18.77	-18.98	-20.58	-16.83	-21.21	-50.43	-42.98	-60.65	-69.12	-61.49
6200	-19.48	-20.01	-20.75	-16.72	-21.33	-51.33	-45.26	-64.54	-69.52	-60.85
6300	-20.99	-20.17	-20.69	-16.77	-21.51	-51.78	-42.38	-60.23	-69.29	-59.95
6400	-20.12	-19.69	-20.25	-17.16	-22.00	-53.91	-38.53	-59.01	-66.82	-58.11
6500	-17.87	-19.37	-19.93	-17.54	-22.34	-59.68	-40.09	-59.53	-66.24	-56.25
6600	-15.96	-18.16	-19.39	-17.61	-22.57	-59.10	-41.86	-63.74	-66.66	-55.40
6700	-17.01	-17.71	-18.81	-17.53	-22.42	-50.60	-43.05	-61.96	-66.74	-54.97
6800	-15.00	-16.44	-18.12	-17.13	-21.91	-49.06	-44.64	-57.70	-75.10	-56.20
6900	-11.95	-15.28	-17.35	-16.60	-21.76	-53.38	-39.86	-62.52	-74.55	-56.14
7000	-10.30	-13.82	-16.43	-15.85	-21.18	-56.13	-40.68	-59.89	-77.31	-57.23
7100	-14.15	-16.23	-17.04	-16.66	-22.08	-54.39	-45.19	-59.13	-73.61	-59.29
7200	-21.95	-20.80	-20.52	-20.25	-25.80	-56.59	-41.70	-61.23	-79.94	-61.45
7300	-16.39	-18.26	-19.92	-19.48	-25.62	-53.22	-39.10	-60.69	-78.62	-66.10
7400	-19.24	-21.15	-22.06	-21.55	-27.98	-52.82	-49.99	-59.26	-73.49	-70.81
7500	-26.21	-26.61	-26.06	-24.46	-34.66	-53.99	-42.89	-63.70	-79.78	-75.80
7600	-29.70	-29.58	-29.97	-28.41	-38.89	-50.50	-40.73	-63.01	-74.88	-76.09
7700	-31.73	-32.39	-33.87	-32.76	-43.85	-54.97	-40.24	-64.46	-77.45	-92.32
7800	-27.99	-34.08	-38.36	-37.79	-46.42	-54.02	-37.97	-66.35	-77.48	-85.31
7900	-29.18	-36.27	-43.82	-43.23	-47.65	-57.20	-39.58	-59.67	-79.82	-81.35
8000	-43.99	-45.84	-49.46	-48.76	-49.55	-55.04	-42.26	-54.89	-79.92	-80.44
8100	-57.17	-42.75	-54.37	-55.10	-51.34	-51.05	-45.70	-58.98	-80.09	-83.72
8200	-52.95	-44.03	-62.25	-60.17	-52.82	-58.51	-41.03	-56.64	-82.37	-81.43
8300	-51.74	-48.84	-61.44	-61.43	-54.02	-54.21	-37.84	-58.24	-81.06	-85.11
8400	-51.15	-44.81	-66.87	-59.33	-54.90	-56.34	-35.93	-61.28	-85.65	-89.41
8500	-49.14	-44.35	-57.64	-57.41	-55.30	-53.19	-39.77	-61.66	-79.25	-87.53
8600	-52.12	-42.05	-58.70	-56.04	-55.20	-53.72	-35.96	-57.20	-72.89	-86.61
8700	-53.43	-39.67	-58.39	-55.43	-55.27	-57.02	-40.64	-53.84	-77.50	-89.61
8750	-51.89	-40.48	-58.14	-55.09	-55.60	-54.41	-38.91	-57.80	-77.93	-87.78
8800	-50.35	-41.29	-57.88	-54.76	-55.93	-51.79	-37.17	-61.75	-78.37	-85.96
8850	-50.85	-39.19	-57.23	-54.56	-55.78	-53.95	-38.70	-59.46	-78.90	-84.05
8900	-51.35	-37.10	-56.58	-54.36	-55.62	-56.10	-40.22	-57.18	-79.43	-82.14
8950	-49.08	-39.40	-55.40	-54.46	-55.85	-55.09	-40.80	-55.75	-79.16	-85.31
9000	-46.80	-41.70	-54.22	-54.56	-56.07	-54.08	-41.38	-54.33	-78.89	-88.49

Signal Generator

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 25°C.

Freq. (MHz)	Phase Noise vs. Output Frequency (dBc / Hz)				
	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz
5000	-88.01	-105.02	-116.88	-124.91	-129.66
5050	-87.92	-104.12	-116.99	-124.96	-131.05
5100	-87.83	-103.21	-117.09	-125.00	-132.43
5150	-87.33	-103.55	-116.85	-125.31	-133.13
5200	-86.83	-103.89	-116.60	-125.61	-133.83
5300	-90.10	-110.31	-116.42	-123.93	-133.31
5400	-87.78	-103.95	-116.84	-123.27	-133.57
5500	-86.88	-101.59	-116.82	-122.85	-132.49
5600	-86.97	-102.34	-115.94	-123.66	-132.79
5700	-88.10	-102.13	-116.00	-123.91	-133.43
5800	-86.79	-102.37	-115.99	-122.11	-133.45
5900	-86.43	-100.28	-115.91	-122.10	-133.51
6000	-87.03	-99.79	-115.89	-121.10	-135.20
6100	-87.65	-101.23	-115.64	-120.21	-132.72
6200	-86.69	-100.47	-115.48	-119.61	-134.07
6300	-87.74	-100.90	-115.61	-118.72	-133.84
6400	-87.74	-100.91	-115.26	-118.16	-134.88
6500	-87.16	-100.07	-115.55	-117.82	-135.63
6600	-87.32	-99.60	-114.90	-120.51	-134.22
6700	-86.43	-99.86	-115.10	-118.92	-135.27
6800	-85.75	-99.62	-114.56	-118.89	-134.49
6900	-84.91	-101.48	-114.90	-118.22	-134.26
7000	-86.17	-103.76	-114.79	-117.78	-134.06
7100	-87.65	-109.67	-114.29	-118.52	-134.47
7200	-85.77	-99.23	-113.97	-118.47	-135.16
7300	-86.13	-98.69	-114.18	-117.62	-134.18
7400	-83.91	-99.04	-113.88	-118.30	-134.62
7500	-84.56	-102.83	-113.64	-122.46	-134.70
7600	-86.83	-108.79	-113.67	-123.43	-135.03
7700	-86.86	-98.39	-113.49	-123.16	-134.49
7800	-96.34	-108.35	-113.09	-121.09	-135.00
7900	-97.39	-108.07	-113.69	-121.35	-134.50
8000	-97.38	-107.98	-113.01	-121.13	-134.49
8100	-97.08	-108.29	-113.55	-121.46	-133.83
8200	-96.86	-107.99	-113.08	-120.55	-134.78
8300	-97.42	-108.12	-113.28	-119.95	-134.36
8400	-96.85	-107.86	-112.97	-119.74	-134.90
8500	-96.48	-107.88	-113.11	-118.99	-134.50
8600	-96.86	-107.55	-112.61	-119.66	-134.34
8700	-96.69	-107.01	-112.06	-121.91	-134.28
8750	-96.58	-106.98	-112.02	-121.84	-134.09
8800	-96.46	-106.94	-111.97	-121.77	-133.89
8850	-96.55	-107.01	-111.95	-121.02	-133.70
8900	-96.64	-107.07	-111.93	-120.27	-133.50
8950	-96.61	-107.00	-112.02	-120.69	-133.27
9000	-96.58	-106.93	-112.11	-121.11	-133.03

Freq. (MHz)	Power (dBM) Max
5000	23.96
5050	24.12
5100	24.27
5150	24.34
5200	24.41
5300	24.29
5400	24.11
5500	23.96
5600	23.72
5700	23.46
5800	23.30
5900	23.21
6000	23.10
6100	23.08
6200	23.02
6300	23.08
6400	23.00
6500	23.38
6600	23.80
6700	24.05
6800	24.45
6900	24.74
7000	24.84
7100	25.00
7200	24.97
7300	24.88
7400	24.87
7500	24.85
7600	24.63
7700	24.47
7800	24.38
7900	24.30
8000	24.23
8100	24.23
8200	24.24
8300	24.18
8400	24.12
8500	24.09
8600	24.04
8700	23.99
8750	24.00
8800	24.01
8850	24.01
8900	24.00
8950	24.00
9000	23.99

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 25°C.

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)				
	5.0 GHz	6.0 GHz	7.0 GHz	8.0 GHz	9.0 GHz
1	-88.01	-87.03	-86.17	-97.38	-96.58
10	-105.02	-99.79	-103.76	-107.98	-106.93
100	-116.88	-115.89	-114.79	-113.01	-112.11
1000	-124.91	-121.10	-117.78	-121.13	-121.11
10000	-129.66	-135.20	-134.06	-134.49	-133.03

Freq. (MHz)	Spurious (dBc)
5000	-65.93
5050	-66.06
5100	-66.18
5150	-66.30
5200	-66.43
5300	-66.38
5400	-66.06
5500	-65.73
5600	-65.83
5700	-65.94
5800	-66.12
5900	-66.38
6000	-66.63
6100	-66.39
6200	-66.15
6300	-66.16
6400	-66.44
6500	-66.71
6600	-66.40
6700	-66.10
6800	-66.06
6900	-66.28
7000	-66.50
7100	-65.78
7200	-65.06
7300	-64.74
7400	-64.81
7500	-64.88
7600	-65.42
7700	-65.96
7800	-66.39
7900	-66.71
8000	-67.03
8100	-67.04
8200	-67.05
8300	-66.75
8400	-66.13
8500	-65.50
8600	-66.14
8700	-66.79
8750	-67.11
8800	-66.69
8850	-66.27
8900	-65.85
8950	-65.43
9000	-65.01

Note: Spurious was measured in offsets of 100 kHz to 150 MHz.

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 50°C.

Freq. (MHz)	Power deviation from nominal vs. Output Frequency (dB)									
	-50 dBm	-45 dBm	-40 dBm	-30 dBm	-20 dBm	-10 dBm	0 dBm	+10 dBm	+15 dBm	+20 dBm
5000	-0.28	-0.26	-0.16	-0.26	-0.14	-0.31	-0.43	-0.40	-0.39	-0.07
5050	-0.37	-0.34	-0.26	-0.26	-0.15	-0.32	-0.42	-0.36	-0.34	-0.03
5100	-0.46	-0.43	-0.36	-0.27	-0.17	-0.33	-0.42	-0.33	-0.30	0.00
5150	-0.38	-0.40	-0.34	-0.32	-0.24	-0.29	-0.37	-0.27	-0.26	0.01
5200	-0.31	-0.37	-0.33	-0.38	-0.31	-0.24	-0.32	-0.20	-0.22	0.01
5300	-0.35	-0.35	-0.26	-0.23	-0.23	-0.21	-0.10	-0.03	0.01	0.14
5400	0.16	-0.01	-0.08	-0.09	-0.06	-0.11	-0.07	0.03	0.07	0.18
5500	0.09	-0.05	-0.10	-0.16	-0.09	-0.08	-0.29	-0.03	0.04	0.10
5600	-0.40	-0.41	-0.30	-0.34	-0.26	-0.13	-0.17	-0.09	0.00	0.00
5700	-0.75	-0.42	-0.44	-0.31	-0.21	-0.23	-0.25	-0.21	-0.05	0.04
5800	-0.52	-0.27	-0.36	-0.38	-0.30	-0.20	-0.23	-0.14	-0.05	0.17
5900	-0.10	-0.08	-0.26	-0.16	-0.13	-0.23	-0.26	-0.12	-0.10	0.12
6000	-0.02	-0.16	-0.29	-0.30	-0.21	-0.12	-0.17	-0.19	-0.07	0.11
6100	-0.36	-0.39	-0.44	-0.24	-0.17	-0.15	-0.29	-0.06	0.01	-0.09
6200	-0.18	-0.16	-0.25	-0.31	-0.22	-0.04	-0.16	0.06	0.11	0.17
6300	0.00	0.00	-0.12	-0.25	-0.25	-0.29	-0.41	-0.29	-0.14	0.04
6400	-0.27	-0.53	-0.37	-0.24	-0.17	-0.10	-0.16	-0.02	-0.07	0.10
6500	-0.27	-0.23	-0.18	-0.20	-0.16	-0.12	-0.13	0.03	0.11	0.11
6600	-0.30	-0.33	-0.30	-0.15	-0.09	-0.04	-0.09	0.00	0.12	0.05
6700	0.10	0.03	-0.09	-0.23	0.08	-0.07	-0.27	-0.14	0.07	0.10
6800	-0.07	-0.16	-0.25	-0.22	0.09	-0.19	-0.09	0.11	0.09	0.11
6900	-0.48	-0.29	-0.23	-0.30	0.00	-0.16	-0.14	-0.16	0.02	0.03
7000	-0.35	-0.30	-0.32	-0.25	-0.04	-0.20	-0.27	-0.11	-0.01	-0.02
7100	-0.09	-0.13	-0.27	-0.31	-0.04	-0.28	-0.16	0.01	-0.13	-0.05
7200	-0.18	-0.27	-0.10	-0.11	0.07	-0.02	-0.08	0.03	0.07	0.08
7300	0.09	-0.05	-0.02	-0.15	0.07	-0.06	-0.12	0.05	0.07	0.06
7400	0.09	-0.12	-0.18	-0.09	0.14	-0.04	-0.14	0.09	0.12	-0.01
7500	0.03	-0.18	-0.29	-0.18	0.03	-0.14	-0.20	-0.04	-0.01	-0.06
7600	-0.20	-0.31	-0.34	-0.31	0.01	-0.08	-0.11	0.04	-0.01	-0.06
7700	-0.20	-0.20	-0.35	-0.28	-0.03	-0.14	-0.07	0.01	0.03	-0.06
7800	-0.61	-0.35	-0.37	-0.27	0.07	-0.06	-0.04	0.04	0.03	0.01
7900	-0.06	-0.07	-0.12	-0.14	0.09	0.03	-0.01	0.09	0.04	0.00
8000	-0.05	-0.22	-0.28	-0.19	0.14	0.06	0.00	0.10	0.04	-0.06
8100	-0.23	-0.21	-0.16	-0.23	0.05	-0.02	-0.02	0.07	0.00	-0.02
8200	-0.35	-0.17	-0.32	-0.18	0.19	0.11	0.08	0.18	0.12	0.07
8300	-0.11	-0.03	-0.26	-0.32	-0.06	-0.08	-0.15	-0.01	-0.04	-0.07
8400	-0.29	-0.47	-0.37	-0.21	0.02	-0.07	-0.18	-0.05	-0.04	-0.05
8500	-0.39	-0.39	-0.38	-0.45	-0.23	-0.24	-0.21	-0.11	-0.14	-0.13
8600	-0.58	-0.38	-0.43	-0.22	-0.01	-0.14	-0.12	-0.04	0.06	-0.02
8700	-0.22	-0.52	-0.47	-0.47	-0.14	-0.15	-0.23	-0.20	-0.03	-0.11
8750	-0.17	-0.32	-0.37	-0.28	0.01	-0.04	-0.12	-0.05	0.09	0.00
8800	-0.13	-0.13	-0.28	-0.10	0.16	0.07	0.00	0.09	0.20	0.10
8850	-0.14	-0.17	-0.26	-0.20	0.03	-0.03	-0.09	-0.01	0.11	0.04
8900	-0.16	-0.22	-0.24	-0.29	-0.10	-0.13	-0.18	-0.12	0.01	-0.02
8950	-0.24	-0.36	-0.34	-0.33	-0.09	-0.15	-0.18	-0.10	-0.02	-0.07
9000	-0.31	-0.49	-0.44	-0.37	-0.07	-0.17	-0.18	-0.09	-0.04	-0.12

Signal Generator

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 50°C.

Power (dBm)	Power deviation from nominal vs. Output Power (dB)								
	5.0 GHz	5.5 GHz	6.0 GHz	6.5 GHz	7.0 GHz	7.5 GHz	8.0 GHz	8.5 GHz	9.0 GHz
-50	-0.28	0.09	-0.02	-0.27	-0.35	0.03	-0.05	-0.39	-0.31
-49	-0.28	0.06	-0.05	-0.26	-0.34	-0.01	-0.08	-0.39	-0.35
-48	-0.27	0.03	-0.08	-0.25	-0.33	-0.05	-0.12	-0.39	-0.38
-47	-0.27	0.01	-0.10	-0.25	-0.32	-0.10	-0.15	-0.39	-0.42
-46	-0.26	-0.02	-0.13	-0.24	-0.31	-0.14	-0.18	-0.39	-0.46
-45	-0.26	-0.05	-0.16	-0.23	-0.30	-0.18	-0.22	-0.39	-0.49
-44	-0.24	-0.06	-0.18	-0.22	-0.30	-0.20	-0.23	-0.39	-0.48
-43	-0.22	-0.07	-0.21	-0.21	-0.31	-0.23	-0.24	-0.38	-0.47
-42	-0.20	-0.08	-0.24	-0.20	-0.31	-0.25	-0.26	-0.38	-0.46
-41	-0.18	-0.09	-0.26	-0.19	-0.31	-0.27	-0.27	-0.38	-0.45
-40	-0.16	-0.10	-0.29	-0.18	-0.32	-0.29	-0.28	-0.38	-0.44
-38	-0.17	-0.12	-0.28	-0.19	-0.31	-0.25	-0.30	-0.36	-0.44
-36	-0.19	-0.14	-0.28	-0.19	-0.30	-0.21	-0.31	-0.34	-0.44
-34	-0.21	-0.16	-0.28	-0.20	-0.28	-0.19	-0.29	-0.35	-0.42
-32	-0.23	-0.16	-0.29	-0.20	-0.27	-0.19	-0.24	-0.40	-0.39
-30	-0.26	-0.16	-0.30	-0.20	-0.25	-0.18	-0.19	-0.45	-0.37
-28	-0.25	-0.17	-0.28	-0.22	-0.22	-0.18	-0.17	-0.43	-0.35
-26	-0.24	-0.18	-0.26	-0.24	-0.18	-0.18	-0.14	-0.41	-0.34
-24	-0.22	-0.17	-0.25	-0.23	-0.14	-0.14	-0.07	-0.37	-0.28
-22	-0.18	-0.13	-0.23	-0.19	-0.09	-0.06	0.03	-0.30	-0.18
-20	-0.14	-0.09	-0.21	-0.16	-0.04	0.03	0.14	-0.23	-0.07
-18	-0.15	-0.09	-0.16	-0.09	-0.07	-0.03	0.10	-0.24	-0.09
-16	-0.16	-0.09	-0.10	-0.02	-0.09	-0.08	0.06	-0.26	-0.12
-14	-0.19	-0.08	-0.08	-0.01	-0.12	-0.11	0.04	-0.26	-0.13
-12	-0.25	-0.08	-0.10	-0.06	-0.16	-0.12	0.05	-0.25	-0.15
-10	-0.31	-0.08	-0.12	-0.12	-0.20	-0.14	0.06	-0.24	-0.17
-8	-0.34	-0.16	-0.12	-0.12	-0.22	-0.14	0.02	-0.22	-0.15
-6	-0.36	-0.23	-0.12	-0.12	-0.25	-0.15	-0.03	-0.19	-0.14
-4	-0.38	-0.28	-0.13	-0.13	-0.26	-0.16	-0.04	-0.19	-0.14
-2	-0.41	-0.29	-0.15	-0.13	-0.27	-0.18	-0.02	-0.20	-0.16
0	-0.43	-0.29	-0.17	-0.13	-0.27	-0.20	0.00	-0.21	-0.18
+2	-0.43	-0.25	-0.21	-0.08	-0.24	-0.17	0.02	-0.17	-0.14
+4	-0.44	-0.21	-0.24	-0.03	-0.21	-0.14	0.04	-0.14	-0.10
+6	-0.43	-0.16	-0.24	0.00	-0.17	-0.11	0.06	-0.12	-0.09
+8	-0.41	-0.10	-0.21	0.02	-0.14	-0.08	0.08	-0.12	-0.09
+10	-0.40	-0.03	-0.19	0.03	-0.11	-0.04	0.10	-0.11	-0.09
+11	-0.39	-0.02	-0.16	0.05	-0.09	-0.04	0.09	-0.12	-0.08
+12	-0.39	0.00	-0.14	0.06	-0.07	-0.03	0.08	-0.12	-0.07
+13	-0.39	0.01	-0.12	0.08	-0.05	-0.02	0.06	-0.13	-0.06
+14	-0.39	0.03	-0.10	0.10	-0.03	-0.02	0.05	-0.13	-0.05
+15	-0.39	0.04	-0.07	0.11	-0.01	-0.01	0.04	-0.14	-0.04
+16	-0.32	0.05	-0.04	0.11	-0.01	-0.02	0.02	-0.14	-0.06
+17	-0.26	0.07	0.00	0.11	-0.02	-0.03	0.00	-0.14	-0.08
+18	-0.19	0.08	0.03	0.11	-0.02	-0.04	-0.02	-0.14	-0.09
+19	-0.13	0.09	0.07	0.11	-0.02	-0.05	-0.04	-0.13	-0.11
+20	-0.07	0.10	0.11	0.11	-0.02	-0.06	-0.06	-0.13	-0.12

Signal Generator

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 50°C.

Freq. (MHz)	Harmonics levels vs. Output Frequency (dBc)									
	F2					F3				
	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm	-50 dBm	-40 dBm	-20 dBm	0 dBm	+20 dBm
5000	-14.10	-16.60	-19.11	-13.83	-19.88	-31.71	-36.31	-40.41	-49.87	-31.34
5050	-15.03	-17.36	-19.65	-14.45	-20.08	-36.14	-37.50	-44.06	-52.74	-34.32
5100	-15.95	-18.11	-20.19	-15.08	-20.27	-40.57	-38.68	-47.71	-55.60	-37.30
5150	-16.37	-18.21	-20.38	-15.28	-20.23	-42.98	-41.32	-52.04	-59.07	-40.73
5200	-16.80	-18.32	-20.57	-15.48	-20.18	-45.39	-43.95	-56.37	-62.54	-44.16
5300	-18.21	-19.11	-20.73	-15.71	-20.05	-53.00	-45.41	-56.38	-67.37	-51.58
5400	-18.20	-18.30	-19.94	-15.86	-20.45	-56.25	-46.77	-63.64	-73.56	-59.57
5500	-16.02	-17.19	-19.14	-15.96	-20.59	-55.53	-41.57	-68.34	-82.25	-67.29
5600	-12.99	-15.69	-18.39	-15.81	-20.99	-55.79	-42.66	-63.42	-80.38	-68.36
5700	-10.44	-14.36	-18.07	-15.84	-21.63	-58.19	-43.58	-67.48	-75.47	-65.54
5800	-12.28	-16.15	-18.50	-15.97	-22.13	-55.36	-39.96	-65.65	-74.89	-63.97
5900	-14.34	-17.13	-19.16	-16.35	-22.28	-57.06	-41.01	-62.61	-72.62	-63.10
6000	-21.02	-21.02	-20.25	-16.77	-22.06	-53.42	-39.25	-63.56	-69.22	-61.92
6100	-17.54	-19.27	-20.65	-16.95	-21.67	-53.37	-41.41	-60.88	-67.78	-61.79
6200	-19.44	-19.39	-20.36	-16.86	-22.11	-53.21	-37.96	-59.97	-68.77	-61.05
6300	-19.96	-20.00	-20.11	-16.87	-22.34	-51.61	-44.42	-61.00	-68.72	-60.44
6400	-18.86	-19.10	-19.78	-17.27	-22.95	-54.03	-41.64	-55.40	-66.76	-58.41
6500	-17.69	-18.40	-19.65	-17.65	-23.30	-50.70	-41.39	-61.86	-67.38	-56.88
6600	-16.43	-18.12	-19.21	-17.82	-23.53	-55.29	-38.62	-65.21	-67.81	-55.94
6700	-16.97	-17.70	-17.55	-17.72	-23.42	-58.76	-35.23	-62.03	-67.45	-55.77
6800	-15.11	-16.00	-17.39	-17.48	-22.87	-52.78	-39.43	-59.52	-73.55	-56.84
6900	-12.25	-15.62	-16.89	-17.04	-22.76	-50.00	-39.93	-66.88	-73.55	-57.01
7000	-10.58	-14.49	-16.13	-16.50	-22.24	-54.74	-45.09	-61.61	-78.06	-58.33
7100	-14.77	-16.73	-17.49	-17.83	-23.56	-51.90	-45.80	-61.66	-72.62	-60.23
7200	-21.25	-21.46	-20.75	-20.97	-26.74	-55.61	-39.74	-61.45	-73.84	-62.19
7300	-17.28	-19.68	-20.02	-20.61	-26.89	-55.95	-41.10	-58.89	-78.83	-67.73
7400	-20.03	-22.25	-22.26	-23.00	-29.43	-58.19	-45.70	-64.31	-75.90	-71.81
7500	-28.85	-27.21	-25.89	-26.08	-36.28	-54.92	-39.64	-63.15	-87.45	-74.27
7600	-41.04	-33.71	-29.68	-30.12	-40.43	-58.29	-45.44	-61.73	-78.22	-82.02
7700	-30.60	-35.44	-33.82	-34.59	-44.70	-53.48	-39.31	-58.96	-80.45	-86.46
7800	-29.76	-34.21	-38.32	-39.83	-46.63	-55.00	-40.77	-59.23	-79.92	-86.09
7900	-33.82	-42.47	-42.60	-45.08	-48.19	-53.08	-43.13	-62.63	-84.23	-82.38
8000	-57.05	-42.02	-48.22	-51.11	-50.06	-53.19	-37.94	-63.78	-83.42	-81.38
8100	-53.12	-45.45	-53.93	-57.56	-51.89	-52.55	-45.10	-62.59	-77.60	-83.90
8200	-54.12	-43.13	-59.28	-62.11	-53.19	-52.04	-39.87	-61.91	-81.83	-80.24
8300	-54.33	-46.47	-66.89	-60.69	-54.42	-52.25	-43.41	-61.27	-82.38	-89.78
8400	-52.48	-41.74	-60.52	-58.70	-55.30	-54.90	-41.64	-59.05	-77.84	-83.96
8500	-53.85	-42.61	-56.94	-57.74	-55.68	-52.15	-40.83	-64.89	-79.51	-92.85
8600	-55.27	-44.66	-60.32	-56.80	-55.61	-53.80	-34.87	-61.88	-75.22	-83.33
8700	-51.93	-47.04	-58.65	-56.30	-55.86	-53.20	-40.19	-60.60	-84.97	-85.31
8750	-53.61	-44.96	-60.54	-55.95	-55.99	-51.48	-39.17	-58.93	-82.88	-87.85
8800	-55.29	-42.89	-62.42	-55.60	-56.12	-49.77	-38.14	-57.26	-80.80	-90.39
8850	-53.39	-42.24	-60.10	-55.76	-56.09	-52.97	-39.30	-57.41	-79.90	-90.13
8900	-51.49	-41.60	-57.78	-55.93	-56.07	-56.17	-40.47	-57.57	-79.00	-89.87
8950	-48.52	-40.70	-58.68	-55.72	-56.27	-54.74	-38.77	-60.90	-80.26	-88.74
9000	-45.54	-39.80	-59.58	-55.51	-56.47	-53.31	-37.07	-64.24	-81.52	-87.61

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 50°C.

Freq. (MHz)	Phase Noise vs. Output Frequency (dBc / Hz)				
	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz
5000	-99.81	-109.88	-116.32	-126.26	-130.83
5050	-99.81	-110.15	-116.36	-125.56	-131.66
5100	-99.81	-110.42	-116.39	-124.85	-132.48
5150	-100.30	-110.81	-116.25	-125.18	-132.28
5200	-100.79	-111.19	-116.11	-125.51	-132.08
5300	-100.99	-111.26	-116.03	-124.74	-132.28
5400	-100.39	-110.99	-116.34	-123.97	-132.36
5500	-100.12	-111.08	-116.03	-121.95	-134.40
5600	-100.18	-110.79	-116.00	-123.56	-132.05
5700	-100.12	-110.81	-115.63	-122.47	-133.44
5800	-99.49	-110.53	-115.48	-123.77	-134.95
5900	-99.64	-110.35	-115.46	-122.25	-133.36
6000	-99.53	-110.31	-115.22	-121.56	-135.19
6100	-99.69	-110.28	-115.18	-120.12	-133.26
6200	-99.17	-110.32	-115.07	-119.88	-135.12
6300	-99.17	-110.07	-115.05	-119.57	-135.15
6400	-98.88	-109.66	-114.61	-119.49	-135.28
6500	-99.05	-109.61	-114.89	-119.49	-134.94
6600	-98.83	-109.53	-114.67	-120.42	-134.63
6700	-98.34	-109.29	-114.73	-119.85	-135.78
6800	-98.53	-109.09	-114.19	-120.10	-134.40
6900	-98.30	-109.26	-113.84	-118.16	-134.41
7000	-98.19	-108.73	-114.12	-119.33	-134.81
7100	-97.78	-108.83	-113.44	-120.27	-134.90
7200	-98.22	-108.87	-113.58	-119.78	-134.55
7300	-98.11	-108.44	-113.50	-119.57	-134.32
7400	-97.86	-108.45	-113.48	-118.51	-134.51
7500	-97.83	-108.54	-113.43	-122.55	-134.99
7600	-97.42	-107.79	-113.23	-123.20	-134.51
7700	-97.00	-108.18	-113.13	-122.55	-134.78
7800	-96.94	-107.92	-113.09	-121.38	-133.78
7900	-97.18	-107.72	-113.01	-121.30	-134.82
8000	-97.38	-107.73	-112.94	-121.22	-134.60
8100	-96.94	-107.70	-112.62	-121.31	-134.58
8200	-97.03	-107.56	-112.97	-121.24	-134.38
8300	-96.57	-107.22	-112.50	-120.60	-133.90
8400	-96.66	-107.46	-112.61	-120.25	-134.51
8500	-96.83	-107.35	-112.43	-119.13	-134.41
8600	-96.40	-107.45	-112.39	-119.57	-133.85
8700	-96.51	-106.97	-111.49	-122.04	-134.06
8750	-96.52	-106.94	-111.57	-121.98	-134.41
8800	-96.52	-106.90	-111.65	-121.92	-134.75
8850	-96.40	-106.76	-111.49	-121.81	-134.57
8900	-96.28	-106.62	-111.33	-121.69	-134.39
8950	-96.24	-106.60	-111.57	-121.57	-133.87
9000	-96.20	-106.57	-111.80	-121.45	-133.34

Freq. (MHz)	Power (dBM) Max
5000	23.89
5050	24.02
5100	24.14
5150	24.20
5200	24.26
5300	24.13
5400	23.95
5500	23.83
5600	23.63
5700	23.41
5800	23.30
5900	23.26
6000	23.20
6100	23.22
6200	23.14
6300	23.17
6400	23.09
6500	23.42
6600	23.81
6700	24.02
6800	24.28
6900	24.47
7000	24.52
7100	24.60
7200	24.56
7300	24.47
7400	24.44
7500	24.44
7600	24.23
7700	24.07
7800	23.99
7900	23.92
8000	23.85
8100	23.86
8200	23.87
8300	23.82
8400	23.76
8500	23.73
8600	23.70
8700	23.63
8750	23.65
8800	23.67
8850	23.66
8900	23.66
8950	23.64
9000	23.63

Signal Generator

SSG-5N9GD-RC

Typical Performance Data

Test Conditions: Channel 1 @ Temperature = 50°C.

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)				
	5.0 GHz	6.0 GHz	7.0 GHz	8.0 GHz	9.0 GHz
1	-99.81	-99.53	-98.19	-97.38	-96.20
10	-109.88	-110.31	-108.73	-107.73	-106.57
100	-116.32	-115.22	-114.12	-112.94	-111.80
1000	-126.26	-121.56	-119.33	-121.22	-121.45
10000	-130.83	-135.19	-134.81	-134.60	-133.34

Freq. (MHz)	Spurious (dBc)
5000	-67.39
5050	-67.09
5100	-66.78
5150	-66.47
5200	-66.16
5300	-65.99
5400	-66.26
5500	-66.53
5600	-66.38
5700	-66.23
5800	-66.25
5900	-66.44
6000	-66.63
6100	-66.37
6200	-66.12
6300	-66.20
6400	-66.63
6500	-67.05
6600	-66.53
6700	-66.02
6800	-65.73
6900	-65.67
7000	-65.61
7100	-65.33
7200	-65.05
7300	-65.04
7400	-65.32
7500	-65.59
7600	-66.06
7700	-66.52
7800	-66.64
7900	-66.40
8000	-66.15
8100	-66.47
8200	-66.79
8300	-66.46
8400	-65.48
8500	-64.51
8600	-65.39
8700	-66.28
8750	-66.72
8800	-66.21
8850	-65.70
8900	-65.19
8950	-64.67
9000	-64.16

Note: Spurious was measured in offsets of 100 kHz to 150 MHz.