

# Signal Generator

**SSG-8N12GD-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
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
8800	-0.43	-0.26	-0.10	0.00	0.01	0.10	0.22	0.28	0.34	0.45
8900	-0.03	-0.03	0.06	-0.06	-0.05	-0.10	0.04	0.10	0.17	0.32
9000	-0.24	-0.34	-0.17	-0.18	-0.24	-0.13	-0.01	0.13	0.13	0.22
9100	-0.29	-0.31	-0.12	-0.23	-0.20	-0.23	-0.11	0.00	-0.02	0.11
9200	-0.31	-0.37	-0.16	-0.12	-0.02	-0.09	0.03	0.14	0.18	0.27
9300	-0.28	-0.20	-0.11	-0.13	-0.15	-0.12	-0.10	0.03	0.04	0.16
9400	-0.31	-0.40	-0.20	-0.24	-0.02	-0.03	0.06	0.23	0.19	0.31
9500	-0.05	-0.16	-0.08	-0.07	-0.15	-0.11	-0.02	0.14	0.04	0.15
9600	-0.32	-0.37	-0.33	-0.25	-0.16	-0.08	0.06	0.09	0.13	0.25
9700	0.00	-0.06	-0.06	-0.13	-0.10	-0.16	0.02	0.06	0.06	0.20
9800	-0.30	-0.24	-0.19	-0.17	-0.08	-0.06	0.08	0.26	0.13	0.29
9900	-0.32	-0.19	-0.13	-0.02	-0.02	-0.13	-0.01	0.18	0.09	0.27
10000	-0.29	-0.16	-0.22	-0.27	-0.26	-0.15	-0.14	-0.04	0.01	0.22
10100	-0.11	-0.43	-0.21	-0.10	0.00	-0.10	-0.07	0.05	0.17	0.34
10200	-0.03	-0.16	-0.06	-0.21	-0.20	-0.20	-0.09	0.00	0.12	0.28
10300	-0.18	-0.28	-0.22	-0.05	0.06	-0.06	0.01	0.07	0.22	0.42
10400	-0.17	0.00	0.06	0.01	0.04	-0.04	-0.01	0.12	0.25	0.45
10500	-0.15	-0.12	0.01	0.13	0.12	0.05	0.05	0.22	0.30	0.53
10600	-0.09	-0.04	-0.09	-0.15	-0.22	-0.31	-0.10	0.06	0.08	0.39
10700	-0.63	-0.66	-0.42	-0.25	-0.17	-0.12	0.01	0.09	0.19	0.50
10800	-0.48	-0.28	-0.14	-0.22	-0.28	-0.29	-0.22	-0.03	-0.08	0.29
10900	-0.19	-0.18	-0.27	-0.17	-0.05	-0.02	0.03	0.10	0.23	0.52
11000	0.08	0.00	0.02	-0.06	-0.14	-0.17	-0.11	-0.02	0.04	0.29
11100	-0.12	-0.32	-0.26	-0.26	-0.13	-0.01	0.07	0.27	0.17	0.45
11200	-0.40	-0.32	-0.17	-0.23	-0.27	-0.28	-0.25	-0.13	-0.15	0.07
11300	-0.52	-0.50	-0.40	-0.29	-0.12	-0.01	0.13	0.16	0.21	0.41
11400	-0.26	-0.19	-0.09	0.08	-0.04	-0.11	-0.02	0.08	0.05	0.18
11500	-0.70	-0.44	-0.22	-0.11	0.03	0.14	0.21	0.31	0.27	0.42
11600	-0.06	0.33	0.26	0.01	0.08	0.03	0.13	0.09	0.13	0.27
11700	0.70	0.24	0.14	-0.06	0.14	0.04	0.12	0.16	0.26	0.39
11800	0.02	-0.16	-0.10	-0.22	-0.12	-0.12	0.02	0.10	0.14	0.24
11900	0.37	0.02	0.09	-0.04	-0.02	-0.14	-0.04	0.11	0.11	0.15
12000	-0.59	-0.49	-0.36	-0.40	-0.28	-0.13	0.00	0.06	0.10	0.16
12100	-1.09	-0.57	-0.21	-0.02	-0.07	-0.08	0.01	0.10	0.15	0.24
12200	-0.90	-0.59	-0.38	-0.32	-0.34	-0.32	-0.12	-0.02	0.04	0.16
12300	-0.71	-0.57	-0.34	-0.15	-0.27	-0.35	-0.20	-0.07	0.07	0.18
12400	-0.40	-0.43	-0.28	-0.40	-0.32	-0.31	-0.08	0.04	0.13	0.25
12500	-0.67	-0.73	-0.47	-0.47	-0.50	-0.59	-0.43	-0.33	-0.18	-0.02

# Signal Generator

**SSG-8N12GD-RC**

## Typical Performance Data

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

Power (dBm)	Power deviation from nominal vs. Output Power (dB)									
	8.0 GHz	8.5 GHz	9.0 GHz	9.5 GHz	10.0 GHz	10.5 GHz	11.0 GHz	11.5 GHz	12.0 GHz	12.5 GHz
-50	-0.38	-0.21	-0.24	-0.05	-0.29	-0.15	0.08	-0.70	-0.59	-0.67
-49	-0.36	-0.22	-0.26	-0.07	-0.27	-0.14	0.06	-0.65	-0.57	-0.68
-48	-0.33	-0.22	-0.28	-0.09	-0.24	-0.14	0.05	-0.60	-0.55	-0.69
-47	-0.30	-0.22	-0.30	-0.12	-0.21	-0.13	0.03	-0.54	-0.53	-0.70
-46	-0.27	-0.23	-0.32	-0.14	-0.19	-0.13	0.02	-0.49	-0.51	-0.71
-45	-0.24	-0.23	-0.34	-0.16	-0.16	-0.12	0.00	-0.44	-0.49	-0.73
-44	-0.20	-0.21	-0.30	-0.14	-0.17	-0.10	0.01	-0.40	-0.46	-0.67
-43	-0.16	-0.19	-0.27	-0.13	-0.18	-0.07	0.01	-0.35	-0.44	-0.62
-42	-0.13	-0.18	-0.24	-0.11	-0.19	-0.04	0.01	-0.31	-0.41	-0.57
-41	-0.09	-0.16	-0.20	-0.10	-0.21	-0.02	0.02	-0.27	-0.39	-0.52
-40	-0.05	-0.14	-0.17	-0.08	-0.22	0.01	0.02	-0.22	-0.36	-0.47
-38	-0.09	-0.14	-0.19	-0.08	-0.20	0.02	0.00	-0.22	-0.37	-0.52
-36	-0.12	-0.13	-0.22	-0.08	-0.18	0.03	-0.02	-0.22	-0.39	-0.56
-34	-0.12	-0.15	-0.22	-0.08	-0.20	0.05	-0.04	-0.20	-0.40	-0.56
-32	-0.06	-0.19	-0.20	-0.08	-0.23	0.09	-0.05	-0.15	-0.40	-0.52
-30	-0.01	-0.24	-0.18	-0.07	-0.27	0.13	-0.06	-0.11	-0.40	-0.47
-28	-0.02	-0.24	-0.18	-0.07	-0.27	0.11	-0.02	-0.11	-0.38	-0.48
-26	-0.04	-0.25	-0.18	-0.07	-0.27	0.09	0.01	-0.10	-0.37	-0.49
-24	-0.05	-0.24	-0.19	-0.09	-0.27	0.08	-0.01	-0.07	-0.34	-0.50
-22	-0.05	-0.22	-0.22	-0.12	-0.27	0.10	-0.07	-0.02	-0.31	-0.50
-20	-0.05	-0.20	-0.24	-0.15	-0.26	0.12	-0.14	0.03	-0.28	-0.50
-18	-0.05	-0.23	-0.19	-0.15	-0.26	0.10	-0.14	0.05	-0.28	-0.53
-16	-0.04	-0.27	-0.14	-0.14	-0.26	0.07	-0.14	0.06	-0.29	-0.55
-14	-0.03	-0.27	-0.12	-0.13	-0.24	0.06	-0.15	0.09	-0.26	-0.57
-12	-0.02	-0.25	-0.12	-0.12	-0.19	0.05	-0.16	0.11	-0.20	-0.58
-10	-0.01	-0.22	-0.13	-0.11	-0.15	0.05	-0.17	0.14	-0.13	-0.59
-8	0.02	-0.18	-0.10	-0.11	-0.13	0.05	-0.16	0.15	-0.11	-0.56
-6	0.04	-0.14	-0.08	-0.10	-0.12	0.04	-0.14	0.16	-0.09	-0.54
-4	0.06	-0.11	-0.06	-0.08	-0.12	0.04	-0.13	0.17	-0.07	-0.51
-2	0.07	-0.09	-0.03	-0.05	-0.13	0.05	-0.12	0.19	-0.03	-0.47
0	0.08	-0.07	-0.01	-0.02	-0.14	0.05	-0.11	0.21	0.00	-0.43
+2	0.12	-0.02	0.01	0.00	-0.11	0.10	-0.11	0.22	0.00	-0.42
+4	0.15	0.03	0.04	0.02	-0.08	0.15	-0.11	0.23	0.01	-0.40
+6	0.18	0.05	0.07	0.05	-0.06	0.18	-0.09	0.25	0.02	-0.38
+8	0.19	0.04	0.10	0.10	-0.05	0.20	-0.06	0.28	0.04	-0.36
+10	0.21	0.03	0.13	0.14	-0.04	0.22	-0.02	0.31	0.06	-0.33
+11	0.20	0.02	0.13	0.12	-0.03	0.24	-0.01	0.30	0.07	-0.30
+12	0.19	0.01	0.13	0.10	-0.02	0.26	0.00	0.30	0.07	-0.27
+13	0.17	0.01	0.13	0.08	-0.01	0.27	0.01	0.29	0.08	-0.24
+14	0.16	0.00	0.13	0.06	0.00	0.29	0.03	0.28	0.09	-0.21
+15	0.15	-0.01	0.13	0.04	0.01	0.30	0.04	0.27	0.10	-0.18
+16	0.18	0.02	0.15	0.07	0.06	0.35	0.09	0.30	0.11	-0.15
+17	0.21	0.06	0.17	0.09	0.10	0.39	0.14	0.33	0.12	-0.12
+18	0.25	0.09	0.19	0.11	0.14	0.44	0.19	0.36	0.13	-0.09
+19	0.28	0.13	0.21	0.13	0.18	0.48	0.24	0.39	0.15	-0.05
+20	0.31	0.16	0.22	0.15	0.22	0.53	0.29	0.42	0.16	-0.02

# Signal Generator

**SSG-8N12GD-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
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
8800	-46.78	-37.59	-58.25	-53.68	-54.99	-59.99	-35.98	-55.70	-78.01	-85.81
8900	-50.01	-42.80	-55.64	-52.99	-54.91	-53.75	-41.58	-61.18	-76.15	-88.51
9000	-47.76	-43.26	-52.40	-53.02	-55.40	-58.65	-41.36	-56.69	-81.68	-86.73
9100	-42.76	-42.37	-59.37	-53.66	-56.35	-57.12	-40.26	-60.33	-79.95	-85.53
9200	-38.00	-41.29	-52.25	-54.13	-57.76	-50.11	-36.94	-60.37	-77.24	-86.92
9300	-37.43	-41.32	-57.72	-54.50	-60.13	-50.58	-41.48	-60.06	-77.53	-81.95
9400	-37.59	-42.68	-55.12	-55.56	-64.61	-44.79	-38.66	-58.22	-82.45	-80.82
9500	-37.71	-41.57	-53.88	-57.44	-67.70	-43.77	-39.45	-59.69	-79.81	-79.72
9600	-36.78	-39.86	-57.53	-57.91	-66.53	-45.52	-39.08	-58.80	-81.35	-78.47
9700	-36.97	-37.33	-57.27	-59.45	-62.12	-48.50	-38.60	-60.32	-79.61	-74.63
9800	-36.36	-38.01	-55.53	-60.30	-57.97	-42.81	-45.16	-57.89	-81.18	-74.20
9900	-35.93	-38.73	-62.07	-60.45	-54.47	-46.68	-38.02	-60.76	-89.64	-72.79
10000	-37.16	-38.15	-59.13	-62.77	-52.00	-50.93	-41.02	-62.99	-79.28	-67.69
10100	-43.75	-37.46	-59.53	-67.34	-49.09	-49.83	-38.90	-62.81	-81.63	-64.46
10200	-45.21	-39.68	-55.26	-61.91	-49.33	-55.34	-36.99	-58.33	-77.47	-61.12
10300	-37.40	-42.59	-59.65	-71.26	-47.63	-57.55	-41.38	-59.09	-78.58	-56.28
10400	-35.05	-41.84	-54.12	-71.13	-48.40	-49.03	-46.04	-60.79	-79.69	-54.51
10500	-39.29	-39.86	-58.95	-72.39	-49.40	-55.28	-36.41	-58.74	-79.65	-56.70
10600	-39.28	-41.52	-55.86	-76.43	-50.77	-55.12	-47.77	-55.78	-79.11	-60.57
10700	-36.19	-41.13	-60.48	-76.70	-50.93	-55.58	-40.62	-59.85	-80.20	-64.20
10800	-41.49	-43.89	-58.90	-74.38	-52.19	-55.52	-40.26	-60.09	-78.48	-68.51
10900	-39.33	-42.56	-54.87	-76.51	-55.28	-47.02	-40.53	-56.74	-76.87	-67.09
11000	-37.58	-38.48	-56.22	-74.75	-56.82	-50.66	-38.55	-58.07	-80.47	-66.12
11100	-39.02	-41.20	-60.44	-78.44	-56.91	-51.51	-36.71	-57.59	-81.20	-65.60
11200	-40.57	-42.32	-63.22	-80.05	-59.55	-47.05	-37.33	-58.77	-77.41	-72.69
11300	-42.34	-46.09	-61.32	-78.84	-59.44	-55.87	-39.21	-60.35	-85.22	-88.72
11400	-46.34	-43.68	-60.79	-75.21	-60.26	-55.13	-38.53	-56.15	-80.29	-77.12
11500	-43.66	-38.86	-63.40	-76.49	-60.02	-54.19	-35.30	-56.55	-79.77	-76.47
11600	-50.08	-41.84	-61.58	-78.66	-63.46	-50.77	-36.24	-59.79	-78.32	-81.40
11700	-50.19	-39.46	-66.11	-76.89	-64.89	-47.30	-37.51	-54.53	-74.25	-74.70
11800	-47.82	-37.54	-63.23	-90.09	-66.67	-45.18	-38.13	-53.59	-81.81	-76.89
11900	-46.86	-41.50	-63.35	-76.25	-68.26	-49.97	-37.14	-51.47	-74.87	-80.15
12000	-48.32	-42.11	-55.53	-82.89	-68.76	-52.33	-41.39	-57.55	-71.07	-78.10
12100	-43.01	-41.54	-59.73	-75.61	-67.94	-47.44	-37.79	-54.08	-73.68	-78.39
12200	-42.37	-39.30	-64.90	-79.90	-69.03	-49.91	-34.66	-57.53	-72.46	-81.86
12300	-53.23	-44.43	-58.72	-74.58	-67.79	-49.44	-37.80	-52.60	-71.77	-84.59
12400	-45.84	-43.18	-62.14	-70.15	-62.81	-50.32	-35.36	-55.03	-73.17	-90.46
12500	-50.78	-39.71	-59.01	-69.23	-61.63	-51.82	-39.45	-57.27	-77.45	-87.87

# Signal Generator

## SSG-8N12GD-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
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
8800	-96.67	-107.50	-112.83	-121.21	-134.10
8900	-96.64	-107.51	-112.80	-121.76	-134.72
9000	-96.19	-107.44	-112.36	-120.87	-134.23
9100	-96.42	-107.21	-112.25	-120.79	-134.01
9200	-96.75	-106.91	-112.01	-120.21	-133.73
9300	-96.15	-107.20	-111.88	-118.52	-134.22
9400	-96.37	-106.95	-111.92	-119.72	-134.66
9500	-95.88	-106.71	-111.90	-119.88	-134.41
9600	-96.05	-106.90	-111.64	-118.83	-134.57
9700	-95.99	-106.46	-111.41	-118.55	-133.57
9800	-95.63	-106.31	-111.76	-117.48	-133.98
9900	-96.19	-106.43	-111.68	-118.06	-133.66
10000	-95.74	-106.49	-111.41	-118.72	-133.74
10100	-95.48	-106.21	-111.32	-119.29	-133.92
10200	-95.64	-105.79	-111.26	-119.13	-134.22
10300	-95.28	-105.84	-111.14	-118.20	-134.85
10400	-95.31	-105.81	-111.31	-119.33	-134.55
10500	-95.21	-105.74	-111.23	-118.95	-134.82
10600	-94.85	-105.39	-110.80	-117.07	-134.84
10700	-95.01	-105.59	-111.10	-116.89	-133.39
10800	-94.98	-105.25	-110.66	-117.39	-134.64
10900	-95.16	-105.15	-110.92	-116.55	-133.71
11000	-94.68	-105.68	-110.64	-116.56	-133.40
11100	-94.73	-105.48	-110.37	-117.95	-134.12
11200	-94.89	-105.41	-110.52	-117.17	-133.21
11300	-94.58	-105.20	-110.27	-117.90	-135.05
11400	-94.58	-105.44	-110.11	-117.18	-134.88
11500	-94.54	-105.24	-110.27	-116.56	-134.62
11600	-94.25	-105.14	-110.12	-116.79	-132.85
11700	-94.58	-105.61	-110.22	-116.06	-134.22
11800	-94.26	-104.77	-109.93	-116.96	-134.63
11900	-94.11	-105.22	-110.18	-115.53	-133.58
12000	-94.20	-105.41	-110.19	-114.18	-134.61
12100	-93.70	-105.00	-109.99	-113.45	-133.62
12200	-93.85	-105.28	-110.66	-112.45	-134.71
12300	-93.16	-104.46	-109.65	-112.60	-135.45
12400	-93.43	-104.49	-109.85	-112.92	-134.21
12500	-93.33	-104.83	-110.00	-112.79	-134.10

Freq. (MHz)	Power (dBm) Max
8000	24.47
8100	24.48
8200	24.47
8300	24.40
8400	24.35
8500	24.29
8600	24.23
8700	24.17
8800	24.17
8900	24.17
9000	24.15
9100	24.16
9200	24.16
9300	24.17
9400	24.27
9500	24.23
9600	24.27
9700	24.18
9800	24.10
9900	23.90
10000	23.43
10100	22.90
10200	22.32
10300	22.07
10400	22.22
10500	22.34
10600	22.46
10700	22.61
10800	22.63
10900	22.76
11000	22.72
11100	22.83
11200	22.97
11300	23.07
11400	23.26
11500	23.50
11600	23.71
11700	23.85
11800	23.87
11900	23.83
12000	23.65
12100	23.44
12200	23.20
12300	22.98
12400	22.73
12500	22.30

# Signal Generator

## SSG-8N12GD-RC

### Typical Performance Data

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

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)					
	8.0 GHz	9.0 GHz	10.0 GHz	11.0 GHz	12.0 GHz	12.5 GHz
1	-97.47	-96.19	-95.74	-94.68	-94.20	-93.33
10	-108.74	-107.44	-106.49	-105.68	-105.41	-104.83
100	-113.49	-112.36	-111.41	-110.64	-110.19	-110.00
1000	-121.10	-120.87	-118.72	-116.56	-114.18	-112.79
10000	-134.85	-134.23	-133.74	-133.40	-134.61	-134.10

Freq. (MHz)	Spurious (dBc)	
	Far	Near
8000	-69.38	-39.22
8100	-69.22	-39.29
8200	-68.06	-39.36
8300	-68.81	-39.21
8400	-69.47	-39.02
8500	-69.63	-39.18
8600	-68.80	-39.12
8700	-67.69	-39.10
8800	-69.75	-39.02
8900	-68.78	-38.89
9000	-69.23	-38.91
9100	-66.57	-38.75
9200	-68.85	-38.59
9300	-69.00	-38.52
9400	-68.69	-38.30
9500	-68.60	-38.35
9600	-67.49	-38.32
9700	-68.57	-38.19
9800	-68.37	-38.31
9900	-67.56	-38.25
10000	-69.69	-38.15
10100	-68.12	-37.85
10200	-69.39	-37.81
10300	-69.33	-37.44
10400	-67.07	-37.31
10500	-68.89	-37.41
10600	-68.54	-37.19
10700	-67.62	-37.36
10800	-68.43	-37.30
10900	-68.82	-37.51
11000	-68.29	-37.49
11100	-68.66	-37.56
11200	-68.00	-37.80
11300	-68.96	-37.84
11400	-67.85	-37.80
11500	-67.99	-38.28
11600	-68.93	-38.32
11700	-68.29	-39.08
11800	-68.14	-39.35
11900	-68.77	-39.83
12000	-68.44	-40.24
12100	-69.60	-40.53
12200	-68.54	-40.64
12300	-68.78	-40.84
12400	-69.22	-41.11
12500	-67.55	-40.50

**Note:** Spurious was measured in offsets of 1 MHz to 150 MHz (Far) and 1 kHz to 1 MHz (Near).

# Signal Generator

**SSG-8N12GD-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
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
8800	-0.09	0.03	-0.02	0.01	0.18	0.16	0.16	0.22	0.16	0.18
8900	0.02	0.10	0.09	-0.04	0.02	0.06	0.02	0.11	0.08	0.08
9000	0.00	-0.06	-0.06	0.01	0.15	0.17	0.13	0.18	0.20	0.19
9100	0.07	0.12	0.05	-0.01	0.01	0.06	-0.01	0.11	0.11	0.08
9200	0.00	0.05	0.02	0.06	0.17	0.16	0.09	0.16	0.25	0.22
9300	0.14	0.03	0.05	0.01	0.04	0.04	0.02	0.01	0.09	0.07
9400	0.01	-0.09	-0.09	-0.02	0.10	0.07	0.10	0.17	0.28	0.26
9500	0.11	0.06	0.02	-0.02	0.06	-0.01	-0.01	0.05	0.14	0.09
9600	-0.06	-0.14	-0.15	-0.05	0.06	0.07	0.10	0.09	0.25	0.21
9700	0.08	0.09	0.07	0.01	0.06	-0.01	0.02	0.06	0.16	0.10
9800	-0.06	-0.05	-0.05	-0.07	-0.02	0.05	0.10	0.25	0.22	0.16
9900	0.10	0.01	0.07	0.14	0.16	0.03	0.02	0.20	0.21	0.17
10000	0.05	0.05	0.00	-0.12	-0.09	-0.04	-0.09	-0.01	0.07	0.04
10100	0.11	-0.02	0.05	0.05	0.15	0.08	0.07	0.12	0.17	0.19
10200	0.11	0.15	0.08	-0.06	-0.03	0.05	0.02	0.12	0.09	0.12
10300	-0.08	-0.06	-0.11	0.02	0.12	0.12	0.08	0.20	0.15	0.17
10400	0.07	0.13	0.10	0.05	0.03	0.00	0.02	0.12	0.09	0.15
10500	0.00	-0.02	-0.03	0.10	0.12	0.13	0.15	0.26	0.17	0.23
10600	0.16	0.16	0.10	0.08	0.05	-0.04	-0.01	0.15	0.12	0.12
10700	0.02	-0.04	-0.05	0.01	0.14	0.13	0.14	0.20	0.28	0.26
10800	0.20	0.17	0.16	0.09	0.11	-0.02	0.00	0.10	0.14	0.08
10900	-0.03	-0.01	-0.11	0.03	0.18	0.16	0.19	0.27	0.33	0.28
11000	0.28	0.24	0.27	0.21	0.13	0.02	-0.01	0.08	0.13	0.05
11100	0.06	-0.06	-0.07	-0.02	0.13	0.18	0.15	0.34	0.22	0.18
11200	0.26	0.16	0.14	0.09	0.07	-0.13	-0.10	-0.03	0.03	0.01
11300	-0.06	-0.02	-0.07	0.00	0.13	0.17	0.16	0.15	0.24	0.21
11400	0.24	0.27	0.22	0.24	0.10	-0.06	-0.05	0.09	0.09	0.08
11500	0.08	0.06	0.00	0.03	0.13	0.16	0.19	0.31	0.25	0.21
11600	0.12	0.07	0.07	0.03	0.04	0.05	0.10	0.15	0.16	0.10
11700	0.01	0.02	-0.01	0.04	0.11	0.15	0.15	0.24	0.22	0.23
11800	0.05	0.03	0.05	-0.02	0.00	0.04	0.07	0.19	0.12	0.14
11900	-0.05	-0.02	0.04	0.10	0.12	0.10	0.14	0.27	0.21	0.23
12000	0.07	0.10	-0.02	-0.06	-0.03	0.11	0.14	0.24	0.20	0.20
12100	0.03	0.09	0.06	0.08	0.19	0.11	0.11	0.23	0.23	0.25
12200	0.09	0.09	0.04	-0.03	0.02	0.08	0.09	0.21	0.24	0.24
12300	0.25	0.22	0.20	0.28	0.24	0.15	0.19	0.25	0.31	0.29
12400	0.11	0.09	0.07	-0.02	0.22	0.29	0.33	0.45	0.43	0.34
12500	-0.04	-0.14	-0.05	-0.04	0.06	-0.06	-0.04	0.04	0.11	0.02

# Signal Generator

**SSG-8N12GD-RC**

## Typical Performance Data

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

Power (dBm)	Power deviation from nominal vs. Output Power (dB)									
	8.0 GHz	8.5 GHz	9.0 GHz	9.5 GHz	10.0 GHz	10.5 GHz	11.0 GHz	11.5 GHz	12.0 GHz	12.5 GHz
-50	0.03	0.11	0.00	0.11	0.05	0.00	0.28	0.08	0.07	-0.04
-49	0.03	0.10	-0.01	0.10	0.05	-0.01	0.27	0.07	0.08	-0.06
-48	0.04	0.10	-0.03	0.09	0.05	-0.01	0.26	0.07	0.08	-0.08
-47	0.04	0.10	-0.04	0.08	0.05	-0.01	0.25	0.07	0.09	-0.10
-46	0.04	0.09	-0.05	0.07	0.05	-0.02	0.25	0.06	0.09	-0.12
-45	0.04	0.09	-0.06	0.06	0.05	-0.02	0.24	0.06	0.10	-0.14
-44	0.04	0.08	-0.06	0.05	0.04	-0.02	0.24	0.05	0.07	-0.12
-43	0.04	0.07	-0.06	0.04	0.03	-0.02	0.25	0.03	0.05	-0.10
-42	0.04	0.06	-0.06	0.03	0.02	-0.02	0.26	0.02	0.02	-0.09
-41	0.04	0.05	-0.06	0.02	0.01	-0.03	0.26	0.01	0.00	-0.07
-40	0.05	0.04	-0.06	0.02	0.00	-0.03	0.27	0.00	-0.02	-0.05
-38	0.03	0.04	-0.07	0.03	-0.01	-0.02	0.25	-0.02	-0.02	-0.09
-36	0.00	0.04	-0.08	0.05	-0.02	-0.01	0.23	-0.04	-0.02	-0.12
-34	0.00	0.03	-0.06	0.04	-0.04	0.02	0.21	-0.03	-0.03	-0.12
-32	0.02	0.02	-0.03	0.01	-0.08	0.06	0.21	0.00	-0.05	-0.08
-30	0.04	0.00	0.01	-0.02	-0.12	0.10	0.21	0.03	-0.06	-0.04
-28	0.06	-0.01	0.01	-0.01	-0.10	0.10	0.23	0.04	-0.01	-0.02
-26	0.07	-0.02	0.01	0.01	-0.08	0.10	0.24	0.05	0.04	0.01
-24	0.08	-0.02	0.04	0.03	-0.08	0.10	0.22	0.07	0.05	0.03
-22	0.09	-0.01	0.10	0.04	-0.08	0.11	0.18	0.10	0.01	0.04
-20	0.09	-0.01	0.15	0.06	-0.09	0.12	0.13	0.13	-0.03	0.06
-18	0.12	-0.01	0.15	0.05	-0.10	0.13	0.11	0.11	0.00	0.03
-16	0.15	-0.01	0.15	0.04	-0.12	0.14	0.09	0.09	0.03	0.00
-14	0.16	0.00	0.15	0.03	-0.11	0.14	0.07	0.10	0.06	-0.02
-12	0.14	0.03	0.16	0.01	-0.08	0.13	0.04	0.13	0.08	-0.04
-10	0.12	0.06	0.17	-0.01	-0.04	0.13	0.02	0.16	0.11	-0.06
-8	0.13	0.06	0.14	0.00	-0.04	0.12	0.02	0.17	0.12	-0.05
-6	0.13	0.06	0.12	0.00	-0.04	0.11	0.01	0.17	0.12	-0.05
-4	0.13	0.05	0.11	0.00	-0.05	0.11	0.01	0.18	0.13	-0.04
-2	0.12	0.04	0.12	0.00	-0.07	0.13	0.00	0.19	0.14	-0.04
0	0.11	0.03	0.13	-0.01	-0.09	0.15	-0.01	0.19	0.14	-0.04
+2	0.12	0.04	0.15	0.02	-0.09	0.15	-0.01	0.18	0.15	-0.01
+4	0.12	0.04	0.16	0.05	-0.08	0.15	0.00	0.17	0.16	0.02
+6	0.13	0.06	0.17	0.06	-0.07	0.17	0.02	0.19	0.18	0.04
+8	0.14	0.09	0.18	0.06	-0.04	0.21	0.05	0.25	0.21	0.04
+10	0.15	0.11	0.18	0.05	-0.01	0.26	0.08	0.31	0.24	0.04
+11	0.17	0.12	0.19	0.07	0.01	0.24	0.09	0.30	0.23	0.06
+12	0.18	0.13	0.19	0.09	0.03	0.22	0.10	0.29	0.22	0.07
+13	0.19	0.13	0.19	0.10	0.04	0.20	0.11	0.28	0.21	0.08
+14	0.21	0.14	0.20	0.12	0.06	0.19	0.12	0.27	0.20	0.10
+15	0.22	0.15	0.20	0.14	0.07	0.17	0.13	0.25	0.20	0.11
+16	0.21	0.14	0.20	0.13	0.07	0.18	0.11	0.24	0.20	0.09
+17	0.21	0.14	0.20	0.12	0.06	0.19	0.10	0.24	0.20	0.08
+18	0.20	0.14	0.19	0.11	0.06	0.20	0.08	0.23	0.20	0.06
+19	0.19	0.14	0.19	0.10	0.05	0.21	0.07	0.22	0.20	0.04
+20	0.19	0.14	0.19	0.09	0.04	0.23	0.05	0.21	0.20	0.02

# Signal Generator

**SSG-8N12GD-RC**

## 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
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
8800	-50.35	-41.29	-57.88	-54.76	-55.93	-51.79	-37.17	-61.75	-78.37	-85.96
8900	-51.35	-37.10	-56.58	-54.36	-55.62	-56.10	-40.22	-57.18	-79.43	-82.14
9000	-46.80	-41.70	-54.22	-54.56	-56.07	-54.08	-41.38	-54.33	-78.89	-88.49
9100	-41.90	-39.63	-56.02	-54.95	-57.17	-50.27	-35.73	-60.87	-84.81	-83.73
9200	-38.16	-38.09	-57.56	-55.66	-58.76	-56.64	-40.65	-61.44	-83.55	-87.81
9300	-39.35	-38.32	-53.91	-55.96	-61.22	-55.31	-37.36	-57.78	-77.91	-85.30
9400	-36.93	-41.60	-55.48	-56.86	-65.91	-53.13	-41.35	-59.49	-78.63	-83.04
9500	-36.08	-48.46	-54.75	-58.51	-72.85	-48.70	-43.85	-62.52	-78.39	-80.46
9600	-37.35	-41.49	-58.32	-60.42	-71.04	-54.27	-48.25	-60.19	-77.77	-78.21
9700	-36.62	-40.14	-64.44	-60.89	-63.86	-49.22	-40.30	-58.65	-85.61	-75.69
9800	-38.72	-39.03	-60.04	-61.18	-59.41	-46.82	-43.19	-56.64	-77.14	-74.81
9900	-35.99	-38.66	-60.16	-63.05	-55.84	-51.66	-35.29	-58.63	-84.45	-74.79
10000	-35.23	-36.50	-58.23	-64.64	-53.25	-50.23	-39.79	-59.17	-79.12	-67.88
10100	-36.96	-39.61	-58.19	-71.66	-50.23	-53.26	-36.55	-60.99	-80.41	-64.69
10200	-38.00	-40.06	-54.53	-63.46	-50.17	-52.28	-38.28	-60.62	-80.51	-61.46
10300	-35.92	-38.75	-57.87	-71.32	-48.48	-55.78	-36.41	-59.19	-82.37	-57.26
10400	-35.45	-46.77	-56.73	-72.35	-49.17	-58.28	-37.33	-58.57	-85.08	-56.21
10500	-38.23	-38.37	-59.87	-75.72	-50.53	-54.98	-38.64	-63.25	-80.94	-58.75
10600	-38.33	-38.97	-64.70	-73.99	-51.94	-52.31	-37.93	-57.62	-79.65	-62.57
10700	-35.13	-42.51	-58.45	-80.34	-52.39	-52.93	-40.12	-58.58	-80.12	-65.29
10800	-43.64	-39.11	-58.86	-79.25	-53.69	-52.26	-38.29	-64.41	-80.31	-69.67
10900	-41.30	-42.67	-68.05	-77.92	-56.56	-55.83	-42.21	-63.73	-81.70	-71.37
11000	-40.69	-38.15	-55.97	-76.85	-58.00	-55.10	-39.62	-60.49	-83.64	-70.97
11100	-39.49	-41.32	-59.21	-75.20	-58.70	-50.62	-38.51	-58.48	-79.56	-69.09
11200	-44.24	-42.16	-62.19	-75.65	-60.77	-52.03	-38.68	-58.45	-76.03	-75.00
11300	-46.90	-42.09	-61.97	-78.02	-60.46	-52.50	-40.81	-65.24	-79.43	-87.35
11400	-52.04	-46.11	-59.08	-77.96	-60.95	-58.09	-41.55	-61.26	-82.82	-82.97
11500	-49.26	-41.62	-66.95	-81.02	-61.22	-56.85	-38.30	-63.60	-79.41	-79.88
11600	-52.47	-45.08	-61.97	-74.70	-64.11	-56.05	-39.56	-56.47	-82.33	-82.67
11700	-49.36	-42.51	-57.41	-73.41	-65.44	-48.70	-35.72	-59.46	-75.56	-84.09
11800	-52.68	-41.11	-60.62	-75.73	-67.08	-50.11	-37.66	-58.59	-73.89	-82.76
11900	-51.00	-37.78	-64.93	-77.37	-68.15	-48.81	-35.01	-54.45	-73.95	-75.50
12000	-56.47	-36.29	-64.46	-74.29	-67.72	-49.50	-33.75	-53.62	-79.11	-83.78
12100	-50.94	-43.20	-59.45	-71.97	-67.82	-52.86	-35.86	-54.73	-73.74	-84.61
12200	-51.86	-40.04	-61.36	-74.66	-69.18	-45.80	-32.37	-54.15	-74.28	-88.76
12300	-53.16	-49.46	-69.12	-76.05	-67.43	-50.08	-34.87	-54.21	-76.41	-86.31
12400	-52.82	-38.71	-61.03	-68.41	-62.50	-49.26	-39.46	-51.80	-71.83	-86.35
12500	-49.60	-36.54	-60.28	-68.90	-60.92	-52.10	-38.30	-51.04	-75.90	-88.66



# Signal Generator

## SSG-8N12GD-RC

### 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
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
8800	-96.46	-106.94	-111.97	-121.77	-133.89
8900	-96.64	-107.07	-111.93	-120.27	-133.50
9000	-96.58	-106.93	-112.11	-121.11	-133.03
9100	-96.20	-107.10	-112.02	-120.27	-133.67
9200	-96.15	-106.92	-111.73	-119.43	-134.10
9300	-96.03	-106.69	-111.56	-119.33	-134.08
9400	-95.80	-106.54	-111.72	-119.74	-134.26
9500	-95.87	-106.62	-111.71	-119.35	-133.96
9600	-96.23	-106.43	-111.64	-118.28	-134.03
9700	-96.13	-106.04	-111.67	-118.30	-133.87
9800	-95.62	-106.30	-111.21	-118.83	-134.05
9900	-95.95	-106.20	-111.42	-118.54	-133.48
10000	-95.54	-106.16	-111.18	-119.78	-133.68
10100	-95.50	-106.15	-111.24	-119.52	-134.52
10200	-95.18	-105.72	-110.74	-119.24	-133.66
10300	-95.32	-106.16	-110.71	-118.06	-134.93
10400	-94.96	-105.87	-111.14	-118.31	-134.70
10500	-95.21	-105.52	-110.57	-117.86	-133.80
10600	-94.91	-105.59	-110.42	-117.69	-134.20
10700	-94.85	-105.55	-110.64	-117.26	-133.93
10800	-94.94	-105.47	-110.62	-116.79	-134.27
10900	-94.90	-105.23	-110.48	-116.92	-134.07
11000	-94.68	-105.17	-110.56	-116.57	-133.96
11100	-94.79	-105.40	-110.35	-118.77	-133.37
11200	-94.60	-105.10	-109.95	-116.61	-134.49
11300	-94.46	-105.29	-110.26	-116.88	-134.03
11400	-94.70	-105.14	-110.11	-116.35	-134.06
11500	-94.18	-105.13	-109.96	-115.63	-133.93
11600	-94.37	-105.10	-109.91	-116.51	-133.74
11700	-94.15	-105.03	-110.13	-116.34	-134.76
11800	-93.88	-104.82	-110.00	-115.15	-133.71
11900	-93.90	-104.59	-109.89	-115.49	-134.11
12000	-93.97	-105.01	-109.84	-113.76	-133.92
12100	-93.69	-104.39	-109.10	-114.84	-133.10
12200	-93.43	-104.48	-109.57	-114.79	-135.19
12300	-93.58	-104.56	-109.88	-114.08	-133.64
12400	-93.56	-104.52	-109.50	-114.11	-133.96
12500	-93.88	-104.69	-109.87	-113.05	-135.33

Freq. (MHz)	Power (dBm) Max
8000	24.23
8100	24.23
8200	24.24
8300	24.18
8400	24.12
8500	24.09
8600	24.04
8700	23.99
8800	24.01
8900	24.00
9000	23.99
9100	23.99
9200	23.99
9300	23.98
9400	24.05
9500	23.97
9600	23.99
9700	23.89
9800	23.78
9900	23.56
10000	23.09
10100	22.56
10200	22.04
10300	21.83
10400	21.97
10500	22.11
10600	22.20
10700	22.36
10800	22.41
10900	22.54
11000	22.50
11100	22.57
11200	22.72
11300	22.81
11400	23.02
11500	23.22
11600	23.44
11700	23.53
11800	23.52
11900	23.48
12000	23.31
12100	23.14
12200	22.91
12300	22.73
12400	22.50
12500	22.07

# Signal Generator

## SSG-8N12GD-RC

### Typical Performance Data

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

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)					
	8.0 GHz	9.0 GHz	10.0 GHz	11.0 GHz	12.0 GHz	12.5 GHz
1	-97.38	-96.58	-95.54	-94.68	-93.97	-93.88
10	-107.98	-106.93	-106.16	-105.17	-105.01	-104.69
100	-113.01	-112.11	-111.18	-110.56	-109.84	-109.87
1000	-121.13	-121.11	-119.78	-116.57	-113.76	-113.05
10000	-134.49	-133.03	-133.68	-133.96	-133.92	-135.33

Freq. (MHz)	Spurious (dBc)	
	Far	Near
8000	-68.83	-39.02
8100	-68.64	-39.12
8200	-68.75	-38.98
8300	-69.65	-38.95
8400	-68.44	-38.70
8500	-68.99	-38.81
8600	-67.92	-38.82
8700	-68.07	-38.73
8800	-68.77	-38.79
8900	-67.21	-38.66
9000	-68.07	-38.43
9100	-68.04	-38.53
9200	-68.46	-38.20
9300	-68.19	-38.09
9400	-68.70	-37.99
9500	-68.34	-38.08
9600	-68.31	-37.87
9700	-68.23	-38.07
9800	-68.18	-37.97
9900	-68.36	-37.93
10000	-68.96	-37.85
10100	-69.50	-37.67
10200	-68.72	-37.40
10300	-69.30	-37.24
10400	-67.21	-37.00
10500	-69.16	-36.94
10600	-67.99	-37.02
10700	-68.91	-37.00
10800	-67.63	-36.95
10900	-68.04	-37.15
11000	-68.03	-37.01
11100	-67.37	-37.13
11200	-67.18	-37.10
11300	-67.85	-37.15
11400	-66.43	-37.32
11500	-68.80	-37.61
11600	-68.54	-37.80
11700	-68.41	-38.35
11800	-67.93	-38.54
11900	-68.41	-39.31
12000	-67.74	-39.45
12100	-68.80	-39.84
12200	-68.17	-40.21
12300	-68.75	-40.47
12400	-69.15	-40.51
12500	-67.94	-40.25

**Note:** Spurious was measured in offsets of 1 MHz to 150 MHz (Far) and 1 kHz to 1 MHz (Near).

# Signal Generator

**SSG-8N12GD-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
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
8800	-0.13	-0.13	-0.28	-0.10	0.16	0.07	0.00	0.09	0.20	0.10
8900	-0.16	-0.22	-0.24	-0.29	-0.10	-0.13	-0.18	-0.12	0.01	-0.02
9000	-0.31	-0.49	-0.44	-0.37	-0.07	-0.17	-0.18	-0.09	-0.04	-0.12
9100	-0.28	-0.40	-0.39	-0.46	-0.24	-0.29	-0.37	-0.27	-0.19	-0.25
9200	-0.27	-0.39	-0.34	-0.30	-0.01	-0.13	-0.16	0.03	-0.02	-0.06
9300	-0.36	-0.32	-0.31	-0.30	-0.26	-0.23	-0.25	-0.17	-0.17	-0.20
9400	-0.37	-0.46	-0.43	-0.38	-0.08	-0.19	-0.12	0.06	-0.01	0.00
9500	-0.20	-0.19	-0.22	-0.24	-0.18	-0.22	-0.25	-0.10	-0.16	-0.16
9600	-0.44	-0.58	-0.54	-0.47	-0.28	-0.20	-0.23	-0.25	-0.13	-0.13
9700	-0.22	-0.21	-0.31	-0.34	-0.20	-0.21	-0.28	-0.19	-0.17	-0.22
9800	-0.44	-0.37	-0.35	-0.32	-0.17	-0.07	-0.04	0.05	-0.05	-0.07
9900	-0.34	-0.25	-0.22	-0.18	-0.13	-0.15	-0.21	-0.08	-0.03	-0.09
10000	-0.23	-0.23	-0.34	-0.43	-0.28	-0.28	-0.30	-0.26	-0.16	-0.23
10100	-0.29	-0.33	-0.38	-0.30	-0.11	-0.17	-0.22	-0.19	-0.04	-0.25
10200	-0.20	-0.19	-0.27	-0.43	-0.22	-0.29	-0.28	-0.18	-0.16	-0.30
10300	-0.41	-0.43	-0.48	-0.25	-0.04	-0.18	-0.21	-0.22	-0.15	-0.25
10400	-0.24	-0.16	-0.19	-0.19	-0.10	-0.25	-0.25	-0.17	-0.05	-0.24
10500	-0.39	-0.34	-0.27	-0.06	0.02	0.01	-0.02	0.00	0.04	-0.13
10600	-0.03	-0.09	-0.09	-0.10	-0.04	-0.17	-0.18	-0.18	-0.05	-0.36
10700	-0.16	-0.11	-0.35	-0.24	-0.05	0.01	-0.02	-0.11	0.04	-0.23
10800	-0.07	-0.09	-0.10	-0.14	-0.04	-0.11	-0.22	-0.17	-0.09	-0.31
10900	-0.37	-0.26	-0.40	-0.20	0.06	0.18	0.08	-0.06	0.14	-0.14
11000	0.09	-0.06	0.07	0.06	-0.05	-0.19	-0.20	-0.22	-0.08	-0.23
11100	-0.23	-0.24	-0.29	-0.36	-0.10	0.00	0.01	-0.01	0.03	-0.12
11200	0.17	0.03	-0.12	-0.20	-0.14	-0.40	-0.37	-0.31	-0.25	-0.20
11300	-0.31	-0.34	-0.40	-0.41	-0.20	-0.06	-0.13	-0.17	-0.03	-0.11
11400	0.13	0.02	-0.10	-0.09	-0.16	-0.33	-0.32	-0.21	-0.16	-0.09
11500	-0.16	-0.41	-0.34	-0.28	-0.09	-0.10	-0.08	0.04	0.12	0.07
11600	-0.24	-0.31	-0.31	-0.26	-0.07	-0.14	-0.13	-0.18	-0.03	-0.13
11700	-0.39	-0.30	-0.34	-0.35	-0.05	-0.16	-0.13	-0.08	0.07	-0.02
11800	-0.80	-0.58	-0.48	-0.46	-0.18	-0.26	-0.25	-0.18	-0.10	-0.13
11900	-1.03	-0.67	-0.43	-0.28	-0.13	-0.27	-0.25	-0.14	-0.10	-0.11
12000	-0.13	-0.17	-0.30	-0.33	-0.13	-0.07	-0.12	-0.08	-0.02	0.02
12100	-0.35	-0.18	-0.17	-0.16	0.11	-0.12	-0.08	-0.03	0.01	0.07
12200	0.25	0.13	-0.02	-0.18	0.00	-0.04	-0.03	0.07	0.07	0.04
12300	0.56	0.30	0.07	0.20	0.32	0.13	0.10	0.16	0.16	0.09
12400	-0.14	-0.10	-0.14	-0.11	0.24	0.23	0.26	0.36	0.20	0.14
12500	-0.59	-0.45	-0.37	-0.20	0.01	-0.14	-0.10	-0.03	-0.16	-0.22

# Signal Generator

**SSG-8N12GD-RC**

## Typical Performance Data

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

Power (dBm)	Power deviation from nominal vs. Output Power (dB)									
	8.0 GHz	8.5 GHz	9.0 GHz	9.5 GHz	10.0 GHz	10.5 GHz	11.0 GHz	11.5 GHz	12.0 GHz	12.5 GHz
-50	-0.05	-0.39	-0.31	-0.20	-0.23	-0.39	0.09	-0.16	-0.13	-0.59
-49	-0.08	-0.39	-0.35	-0.20	-0.23	-0.38	0.06	-0.21	-0.14	-0.57
-48	-0.12	-0.39	-0.38	-0.19	-0.23	-0.37	0.03	-0.26	-0.15	-0.54
-47	-0.15	-0.39	-0.42	-0.19	-0.23	-0.36	0.00	-0.31	-0.16	-0.51
-46	-0.18	-0.39	-0.46	-0.19	-0.23	-0.35	-0.03	-0.36	-0.16	-0.48
-45	-0.22	-0.39	-0.49	-0.19	-0.23	-0.34	-0.06	-0.41	-0.17	-0.45
-44	-0.23	-0.39	-0.48	-0.20	-0.25	-0.33	-0.03	-0.40	-0.20	-0.44
-43	-0.24	-0.38	-0.47	-0.20	-0.27	-0.32	-0.01	-0.38	-0.22	-0.42
-42	-0.26	-0.38	-0.46	-0.21	-0.30	-0.30	0.02	-0.37	-0.25	-0.40
-41	-0.27	-0.38	-0.45	-0.22	-0.32	-0.29	0.05	-0.35	-0.27	-0.38
-40	-0.28	-0.38	-0.44	-0.22	-0.34	-0.27	0.07	-0.34	-0.30	-0.37
-38	-0.30	-0.36	-0.44	-0.22	-0.35	-0.23	0.05	-0.36	-0.33	-0.35
-36	-0.31	-0.34	-0.44	-0.21	-0.36	-0.19	0.03	-0.38	-0.36	-0.33
-34	-0.29	-0.35	-0.42	-0.21	-0.38	-0.15	0.03	-0.36	-0.37	-0.30
-32	-0.24	-0.40	-0.39	-0.23	-0.41	-0.10	0.04	-0.32	-0.35	-0.25
-30	-0.19	-0.45	-0.37	-0.24	-0.43	-0.06	0.06	-0.28	-0.33	-0.20
-28	-0.17	-0.43	-0.35	-0.24	-0.38	0.00	0.04	-0.19	-0.25	-0.13
-26	-0.14	-0.41	-0.34	-0.23	-0.33	0.06	0.02	-0.09	-0.18	-0.07
-24	-0.07	-0.37	-0.28	-0.22	-0.30	0.07	0.00	-0.05	-0.14	-0.02
-22	0.03	-0.30	-0.18	-0.20	-0.29	0.04	-0.03	-0.07	-0.13	-0.01
-20	0.14	-0.23	-0.07	-0.18	-0.28	0.02	-0.05	-0.09	-0.13	0.01
-18	0.10	-0.24	-0.09	-0.17	-0.27	0.01	-0.03	-0.08	-0.13	-0.01
-16	0.06	-0.26	-0.12	-0.16	-0.27	0.01	0.00	-0.07	-0.13	-0.03
-14	0.04	-0.26	-0.13	-0.17	-0.27	0.01	-0.03	-0.08	-0.12	-0.06
-12	0.05	-0.25	-0.15	-0.20	-0.27	0.01	-0.11	-0.09	-0.09	-0.10
-10	0.06	-0.24	-0.17	-0.22	-0.28	0.01	-0.19	-0.10	-0.07	-0.14
-8	0.02	-0.22	-0.15	-0.24	-0.30	-0.02	-0.19	-0.13	-0.08	-0.13
-6	-0.03	-0.19	-0.14	-0.26	-0.33	-0.05	-0.19	-0.15	-0.08	-0.12
-4	-0.04	-0.19	-0.14	-0.26	-0.33	-0.05	-0.20	-0.14	-0.09	-0.11
-2	-0.02	-0.20	-0.16	-0.25	-0.32	-0.04	-0.20	-0.11	-0.10	-0.11
0	0.00	-0.21	-0.18	-0.25	-0.30	-0.02	-0.20	-0.08	-0.12	-0.10
+2	0.02	-0.17	-0.14	-0.21	-0.29	-0.02	-0.21	-0.04	-0.09	-0.07
+4	0.04	-0.14	-0.10	-0.17	-0.28	-0.01	-0.22	0.00	-0.07	-0.03
+6	0.06	-0.12	-0.09	-0.14	-0.27	-0.01	-0.23	0.02	-0.07	-0.02
+8	0.08	-0.12	-0.09	-0.12	-0.27	-0.01	-0.22	0.03	-0.07	-0.02
+10	0.10	-0.11	-0.09	-0.10	-0.26	0.00	-0.22	0.04	-0.08	-0.03
+11	0.09	-0.12	-0.08	-0.11	-0.24	0.01	-0.19	0.06	-0.06	-0.05
+12	0.08	-0.12	-0.07	-0.12	-0.22	0.01	-0.16	0.07	-0.05	-0.08
+13	0.06	-0.13	-0.06	-0.14	-0.20	0.02	-0.14	0.09	-0.04	-0.11
+14	0.05	-0.13	-0.05	-0.15	-0.18	0.03	-0.11	0.11	-0.03	-0.13
+15	0.04	-0.14	-0.04	-0.16	-0.16	0.04	-0.08	0.12	-0.02	-0.16
+16	0.02	-0.14	-0.06	-0.16	-0.18	0.01	-0.11	0.11	-0.01	-0.17
+17	0.00	-0.14	-0.08	-0.16	-0.19	-0.03	-0.14	0.10	0.00	-0.18
+18	-0.02	-0.14	-0.09	-0.16	-0.20	-0.06	-0.17	0.09	0.01	-0.20
+19	-0.04	-0.13	-0.11	-0.16	-0.21	-0.09	-0.20	0.08	0.01	-0.21
+20	-0.06	-0.13	-0.12	-0.16	-0.23	-0.13	-0.23	0.07	0.02	-0.22

# Signal Generator

**SSG-8N12GD-RC**

## 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
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
8800	-55.29	-42.89	-62.42	-55.60	-56.12	-49.77	-38.14	-57.26	-80.80	-90.39
8900	-51.49	-41.60	-57.78	-55.93	-56.07	-56.17	-40.47	-57.57	-79.00	-89.87
9000	-45.54	-39.80	-59.58	-55.51	-56.47	-53.31	-37.07	-64.24	-81.52	-87.61
9100	-41.49	-41.01	-58.02	-55.95	-57.72	-57.97	-39.34	-59.33	-75.71	-88.21
9200	-39.51	-41.37	-57.46	-56.65	-59.45	-52.60	-40.66	-61.80	-75.61	-83.70
9300	-41.84	-42.24	-55.81	-57.24	-62.05	-52.99	-43.62	-57.33	-78.18	-83.81
9400	-39.81	-43.19	-56.22	-58.91	-66.58	-51.91	-41.92	-65.08	-82.35	-84.51
9500	-38.76	-41.86	-61.17	-60.37	-74.75	-54.29	-46.24	-58.92	-81.23	-80.26
9600	-40.01	-40.33	-54.31	-60.74	-76.13	-46.45	-37.81	-64.15	-83.53	-80.44
9700	-37.46	-39.16	-61.63	-63.33	-65.19	-55.06	-39.38	-60.85	-80.73	-76.74
9800	-37.51	-42.49	-59.84	-63.99	-60.65	-48.10	-41.40	-62.71	-80.77	-77.86
9900	-36.51	-38.91	-61.40	-66.05	-57.04	-52.31	-35.04	-55.06	-82.54	-75.33
10000	-34.63	-40.78	-60.23	-67.54	-54.06	-52.20	-38.76	-63.40	-81.10	-71.79
10100	-35.35	-39.74	-58.96	-73.80	-51.09	-51.76	-39.05	-57.84	-77.92	-65.58
10200	-35.44	-40.12	-57.59	-64.77	-50.93	-53.99	-39.07	-60.35	-85.88	-62.64
10300	-35.56	-38.07	-57.82	-76.37	-49.33	-52.02	-43.40	-58.54	-77.62	-58.31
10400	-36.34	-39.23	-60.29	-77.80	-50.14	-51.44	-37.61	-60.25	-75.64	-58.32
10500	-39.87	-42.76	-59.40	-74.56	-51.35	-53.23	-36.91	-59.15	-79.34	-61.24
10600	-40.12	-40.43	-61.67	-76.10	-52.96	-53.41	-39.34	-58.73	-77.79	-66.04
10700	-36.48	-41.59	-62.28	-82.29	-53.64	-50.90	-37.45	-61.42	-86.04	-68.44
10800	-46.22	-38.65	-64.12	-86.46	-55.03	-52.02	-41.99	-62.41	-78.09	-73.55
10900	-41.98	-40.08	-61.80	-80.00	-57.62	-52.46	-39.38	-58.74	-78.46	-75.22
11000	-42.08	-40.34	-59.64	-83.88	-58.78	-63.89	-47.98	-58.96	-76.50	-73.02
11100	-44.58	-40.29	-58.55	-76.94	-59.67	-55.60	-39.61	-56.08	-77.45	-72.92
11200	-45.97	-39.54	-58.47	-79.57	-61.25	-51.19	-36.07	-58.81	-82.74	-75.30
11300	-50.13	-39.67	-61.40	-76.97	-60.77	-56.39	-40.16	-59.98	-82.95	-80.32
11400	-50.23	-41.11	-64.63	-75.65	-61.33	-51.51	-44.47	-59.41	-74.27	-84.32
11500	-50.66	-37.39	-58.48	-79.60	-61.89	-50.07	-31.78	-57.05	-77.37	-89.59
11600	-58.21	-42.11	-65.29	-76.83	-64.94	-49.47	-34.13	-55.06	-76.21	-85.96
11700	-59.27	-47.19	-61.04	-80.99	-66.12	-49.15	-32.81	-55.86	-80.24	-83.59
11800	-56.61	-39.92	-67.02	-75.77	-67.95	-48.03	-37.62	-51.51	-71.12	-82.30
11900	-51.59	-39.42	-59.09	-77.33	-68.69	-48.71	-32.55	-49.61	-72.50	-79.58
12000	-57.69	-43.38	-60.27	-78.81	-68.07	-46.51	-34.99	-57.00	-79.77	-82.01
12100	-54.00	-37.81	-59.38	-75.99	-68.05	-55.60	-34.39	-58.22	-74.59	-83.50
12200	-54.29	-37.57	-66.01	-76.88	-68.98	-47.09	-37.19	-56.53	-78.50	-81.51
12300	-56.74	-40.90	-59.27	-78.08	-68.09	-50.19	-34.02	-52.10	-71.68	-82.39
12400	-53.66	-41.24	-67.01	-71.30	-62.73	-46.87	-34.61	-50.16	-73.16	-84.74
12500	-55.81	-39.29	-63.54	-75.52	-61.47	-54.72	-32.45	-58.01	-79.29	-88.21

# Signal Generator

## SSG-8N12GD-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
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
8800	-96.52	-106.90	-111.65	-121.92	-134.75
8900	-96.28	-106.62	-111.33	-121.69	-134.39
9000	-96.20	-106.57	-111.80	-121.45	-133.34
9100	-96.12	-106.54	-111.22	-121.65	-134.64
9200	-95.44	-106.41	-111.45	-119.97	-133.73
9300	-96.08	-106.47	-111.16	-120.35	-135.65
9400	-95.81	-105.92	-111.28	-118.67	-134.15
9500	-95.83	-106.15	-110.83	-120.92	-134.18
9600	-95.75	-106.17	-110.81	-118.98	-134.61
9700	-95.82	-105.88	-110.90	-119.53	-133.79
9800	-95.32	-105.87	-111.07	-119.20	-135.30
9900	-95.29	-105.74	-110.90	-117.92	-133.67
10000	-95.60	-105.31	-110.53	-120.74	-134.66
10100	-95.11	-105.67	-110.40	-119.52	-134.68
10200	-94.78	-105.26	-110.32	-118.68	-135.03
10300	-94.85	-105.30	-110.40	-119.67	-135.79
10400	-94.79	-104.99	-110.39	-117.98	-133.54
10500	-94.74	-104.89	-110.01	-117.79	-134.47
10600	-94.83	-105.17	-110.12	-118.18	-134.09
10700	-94.62	-105.02	-110.23	-118.29	-134.36
10800	-94.61	-105.19	-110.12	-118.47	-133.79
10900	-94.47	-104.77	-110.25	-117.20	-133.90
11000	-94.42	-104.97	-110.05	-117.71	-134.31
11100	-94.05	-104.73	-109.79	-118.44	-133.60
11200	-94.14	-104.83	-109.78	-118.34	-134.75
11300	-94.05	-104.60	-109.52	-118.30	-133.60
11400	-93.82	-104.49	-109.59	-118.06	-134.92
11500	-94.07	-104.44	-109.83	-116.92	-133.60
11600	-94.04	-104.56	-109.54	-117.47	-134.78
11700	-94.24	-104.45	-109.46	-116.71	-133.18
11800	-93.64	-104.67	-109.76	-116.73	-134.87
11900	-93.95	-104.04	-109.15	-115.67	-134.97
12000	-93.98	-104.47	-109.27	-115.41	-135.26
12100	-93.44	-103.89	-108.89	-116.05	-133.92
12200	-93.46	-103.89	-109.28	-114.97	-135.25
12300	-93.76	-104.58	-109.86	-113.91	-134.14
12400	-93.53	-104.09	-109.26	-116.03	-133.43
12500	-93.57	-104.23	-109.39	-114.86	-134.96

Freq. (MHz)	Power (dBm) Max
8000	23.85
8100	23.86
8200	23.87
8300	23.82
8400	23.76
8500	23.73
8600	23.70
8700	23.63
8800	23.67
8900	23.66
9000	23.63
9100	23.63
9200	23.62
9300	23.57
9400	23.62
9500	23.52
9600	23.52
9700	23.40
9800	23.28
9900	23.04
10000	22.55
10100	22.04
10200	21.57
10300	21.39
10400	21.53
10500	21.67
10600	21.79
10700	21.93
10800	21.96
10900	22.08
11000	22.07
11100	22.15
11200	22.34
11300	22.41
11400	22.59
11500	22.73
11600	22.92
11700	22.99
11800	22.96
11900	22.92
12000	22.74
12100	22.58
12200	22.37
12300	22.21
12400	21.98
12500	21.55

# Signal Generator

## SSG-8N12GD-RC

### Typical Performance Data

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

Freq. Offsets (kHz)	Phase Noise vs. Offset Frequency (dBc / Hz)					
	8.0 GHz	9.0 GHz	10.0 GHz	11.0 GHz	12.0 GHz	12.5 GHz
1	-97.38	-96.20	-95.60	-94.42	-93.98	-93.57
10	-107.73	-106.57	-105.31	-104.97	-104.47	-104.23
100	-112.94	-111.80	-110.53	-110.05	-109.27	-109.39
1000	-121.22	-121.45	-120.74	-117.71	-115.41	-114.86
10000	-134.60	-133.34	-134.66	-134.31	-135.26	-134.96

Freq. (MHz)	Spurious (dBc)	
	Far	Near
8000	-68.53	-39.34
8100	-68.82	-39.28
8200	-68.58	-39.27
8300	-67.65	-39.23
8400	-67.86	-39.09
8500	-67.92	-39.14
8600	-68.02	-38.93
8700	-67.37	-38.98
8800	-68.12	-38.95
8900	-67.99	-38.80
9000	-68.52	-38.64
9100	-66.36	-38.61
9200	-68.64	-38.43
9300	-67.26	-38.49
9400	-69.11	-38.21
9500	-68.38	-38.20
9600	-68.42	-38.31
9700	-67.57	-38.26
9800	-68.22	-38.08
9900	-68.18	-38.24
10000	-68.52	-37.97
10100	-68.01	-37.74
10200	-68.78	-37.57
10300	-67.84	-37.39
10400	-67.35	-37.41
10500	-67.58	-37.14
10600	-67.27	-37.25
10700	-67.34	-37.30
10800	-68.23	-37.36
10900	-68.38	-37.31
11000	-68.20	-37.10
11100	-68.66	-37.43
11200	-68.13	-37.17
11300	-67.87	-37.61
11400	-67.73	-37.39
11500	-67.38	-37.90
11600	-67.92	-37.86
11700	-67.84	-38.65
11800	-67.79	-38.72
11900	-68.21	-38.94
12000	-66.86	-39.81
12100	-67.71	-39.67
12200	-67.82	-40.42
12300	-67.61	-40.44
12400	-68.33	-40.24
12500	-67.80	-39.95

**Note:** Spurious was measured in offsets of 1 MHz to 150 MHz (Far) and 1 kHz to 1 MHz (Near).