

## Typical Performance Data

Frequency (MHz)	Max Power Output Vs. Output Frequency (dBm)		
	0°C	+25°C	+50°C
10	4.11	4.38	4.52
50	13.92	14.08	14.13
100	15.41	15.32	15.15
250	17.41	17.33	17.14
500	16.94	16.82	16.59
1000	17.13	16.80	16.44
1500	15.82	15.96	15.90
2000	16.50	16.24	15.92
2500	16.29	16.02	15.75
3000	17.54	17.16	16.78
3500	17.35	17.07	16.76
4000	16.16	15.60	15.24
4500	14.39	14.26	14.05
5000	15.72	14.91	14.16
5500	17.30	16.88	16.30
6000	18.66	17.89	16.91
6500	18.92	17.78	16.67
7000	18.76	18.24	17.36
7500	17.23	16.87	16.21
8000	16.36	15.72	14.97
8500	16.92	16.64	16.03
9000	16.59	16.34	15.83
9500	15.18	15.04	14.61
10000	14.44	14.64	14.32
10500	16.78	16.95	16.54
11000	18.03	17.57	17.19
11500	17.51	16.82	16.19
12000	16.57	16.12	15.64
12500	17.08	16.39	15.51
13000	17.59	16.93	16.27
13500	17.27	16.71	16.01
14000	16.61	16.20	15.69
14500	16.25	15.50	14.91
15000	15.64	14.42	13.22

Frequency (MHz)	Power deviation from nominal Vs. Output Frequency (dBm)					
	-45 dBm	-40 dBm	-20 dBm	-10 dBm	0 dBm	+10 dBm
10	-0.241	-0.104	0.299	0.188	0.121	--
50	-0.053	-0.293	-0.224	0.227	0.012	-1.464
100	-0.038	0.070	-0.061	0.270	0.227	-1.711
250	-0.149	-0.116	-0.103	0.212	0.310	-0.033
500	-0.090	-0.131	-0.110	0.173	0.242	-0.101
1000	-0.072	-0.092	-0.105	0.321	0.043	-0.100
1500	0.061	-0.197	0.183	0.475	0.207	-0.302
2000	-0.046	-0.081	-0.284	0.093	0.182	0.030
2500	-0.209	-0.072	-0.346	0.204	0.058	0.222
3000	-0.134	-0.030	-0.184	0.472	0.299	0.352
3500	0.050	-0.089	0.022	-0.130	0.108	-0.097
4000	-0.084	-0.190	0.143	-0.442	-0.247	-0.529
4500	-0.294	-0.316	-0.134	0.358	0.282	0.021
5000	-0.191	-0.632	-0.042	0.303	-0.005	-0.077
5500	-0.215	-0.223	-0.217	0.148	0.225	-0.372
6000	-0.186	-0.164	-0.206	0.254	0.259	0.022
6500	0.069	-0.060	0.122	0.591	0.241	-0.309
7000	0.097	-0.040	0.112	0.490	0.355	0.249
7500	-0.177	-0.101	-0.133	0.386	0.210	0.146
8000	-0.113	-0.244	0.007	0.595	0.273	0.191
8500	0.204	0.150	-0.067	0.006	0.316	0.197
9000	-0.099	0.065	0.077	0.282	0.059	0.074
9500	0.173	0.008	0.065	0.078	0.211	-0.126
10000	-0.034	-0.263	0.246	0.008	0.293	0.168
10500	-0.150	-0.034	0.290	0.687	0.198	-0.143
11000	0.083	0.161	0.139	0.507	0.284	-0.031
11500	-0.356	-0.053	-0.079	0.248	0.093	0.071
12000	-0.175	0.192	0.090	0.429	0.424	-0.005
12500	-0.278	-0.016	0.042	0.171	0.415	0.240
13000	0.061	-0.008	0.098	0.313	0.550	-0.046
13500	-0.174	-0.033	0.098	0.280	0.504	-0.236
14000	-0.295	-0.282	-0.019	0.105	0.304	-0.488
14500	-0.043	-0.189	-0.061	0.311	0.438	0.026
15000	0.682	0.872	0.571	1.289	1.248	-5.683

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## Typical Performance Data

Power (dBm)	Power deviation from nominal										
	Vs. Output Power (dBm)										
	10 MHz	200 MHz	500 MHz	1000 MHz	2000 MHz	3000 MHz	5000 MHz	8000 MHz	10000 MHz	12000 MHz	15000 MHz
-50	0.129	-0.129	-0.143	-0.160	-0.189	-0.404	-0.425	--	--	-0.043	0.369
-48	0.080	-0.003	-0.089	-0.031	-0.094	-0.032	-0.372	0.876	0.530	0.068	0.089
-46	-0.024	-0.124	-0.198	-0.264	-0.158	-0.255	-0.382	-0.109	0.098	-0.059	-0.086
-44	-0.318	0.062	-0.094	-0.195	-0.076	-0.228	-0.144	-0.121	0.274	-0.006	-0.141
-42	0.030	-0.062	-0.108	-0.121	-0.157	-0.228	-0.268	-0.120	-0.274	0.049	0.135
-40	-0.037	-0.038	-0.113	-0.136	-0.040	-0.012	-0.250	-0.027	-0.149	0.156	-0.034
-38	-0.122	-0.092	-0.143	-0.256	-0.186	-0.191	-0.171	-0.031	0.035	-0.023	-0.015
-36	-0.425	0.049	-0.047	-0.250	0.041	-0.196	-0.345	-0.141	0.173	-0.023	-0.097
-34	0.012	-0.058	-0.132	-0.132	-0.114	-0.072	-0.490	-0.182	-0.308	-0.055	0.139
-32	0.013	0.156	0.092	0.068	0.094	0.008	-0.214	-0.127	-0.188	0.098	0.041
-30	-0.211	-0.102	-0.165	-0.168	-0.273	-0.274	-0.205	-0.234	-0.041	-0.012	-0.148
-28	0.213	-0.011	-0.047	-0.015	0.046	-0.229	-0.464	0.035	0.137	0.015	-0.172
-26	0.142	-0.141	0.000	-0.115	-0.153	-0.078	-0.595	0.059	-0.258	0.060	0.083
-24	0.475	0.089	0.068	0.049	-0.037	-0.032	-0.371	-0.059	-0.127	0.255	-0.220
-22	-0.198	-0.136	-0.162	-0.084	-0.134	-0.255	-0.243	-0.058	0.110	0.142	-0.553
-20	-0.271	-0.103	-0.133	-0.131	-0.138	-0.190	-0.104	0.057	0.369	-0.019	0.061
-18	0.147	-0.062	-0.035	-0.054	-0.269	-0.154	-0.082	0.122	-0.080	0.061	-0.358
-16	-0.289	0.001	-0.262	-0.141	-0.031	-0.089	0.014	-0.073	0.038	-0.062	-0.146
-14	0.084	0.007	-0.060	-0.095	0.009	-0.110	-0.109	0.199	0.005	0.191	-0.181
-12	0.377	0.315	0.209	0.263	0.254	0.191	0.136	0.474	0.461	0.289	0.170
-10	0.366	0.178	0.172	0.283	0.039	0.311	0.044	0.549	0.109	0.287	-0.210
-8	0.317	0.386	0.314	0.184	0.277	0.261	0.400	0.276	0.262	0.359	0.011
-6	0.090	0.329	0.413	0.237	0.327	0.424	0.419	0.431	0.448	0.578	0.265
-4	0.581	0.331	0.202	0.346	0.305	0.343	0.250	0.331	0.569	0.329	0.093
-2	0.274	0.201	0.137	0.394	0.168	0.336	-0.190	0.554	0.208	0.562	0.487
0	0.157	0.239	0.247	0.085	0.276	0.172	-0.005	0.210	0.379	0.582	0.599
2	0.176	-0.006	-0.035	-0.101	-0.185	0.088	-0.215	0.064	0.229	0.065	-0.119
4	0.134	-0.111	0.020	0.071	0.040	0.012	-0.051	0.027	0.366	0.186	0.118
6	--	-0.111	-0.223	-0.244	-0.147	-0.022	-0.195	0.033	0.553	0.134	-0.056
8	--	-0.088	-0.160	-0.245	0.127	0.202	0.007	0.278	0.039	0.116	-0.120
10	--	-0.008	-0.137	-0.076	0.035	0.346	-0.173	0.231	0.151	-0.115	-0.331
12	--	-0.164	-0.002	-0.058	-0.085	0.324	-0.033	0.280	0.317	0.189	0.014
14	--	-0.076	-0.241	-0.329	0.095	0.122	-0.351	0.177	0.046	0.137	-0.293
15	--	-0.157	-0.235	-0.019	-0.028	0.051	-0.212	0.083	0.076	0.073	--

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# USB Synthesized Signal Generator

# SSG-15G-RC

## Typical Performance Data

Frequency (MHz)	Harmonics Levels Vs. Output Frequency							
	-40dBm		-20dBm		0dBm		+10dBm	
	F2	F3	F2	F3	F2	F3	F2	F3
10	-72.39	-10.14	-42.94	-4.30	-6.26	-4.08	-6.21	-4.13
50	-65.84	-10.40	-54.33	-9.83	-16.98	-9.93	-17.08	-9.96
100	-58.09	-9.87	-55.50	-9.68	-32.46	-10.56	-32.50	-10.59
250	-42.10	-9.75	-42.67	-9.43	-31.05	-9.55	-31.18	-9.93
500	-28.36	-9.05	-27.28	-7.95	-26.67	-7.69	-26.93	-8.09
1000	-16.62	-10.48	-15.24	-4.86	-14.91	-5.22	-14.97	-5.13
1500	-11.27	-24.48	-6.52	-31.13	-6.14	-29.78	-5.98	-29.48
2000	-16.07	-14.79	-16.41	-44.55	-15.12	-44.64	-15.29	-45.10
2500	-23.01	-21.65	-38.79	-61.29	-37.57	-63.98	-37.51	-63.80
3000	-22.56	-24.96	-49.03	-58.90	-48.70	-64.03	-50.48	-78.78
3500	-28.61	-25.89	-55.76	-61.59	-58.52	-65.91	-57.77	-65.49
4000	-28.35	-27.80	-76.86	-68.65	-79.26	-71.70	-77.22	-71.74
4500	-30.18	-27.10	-62.77	-76.96	-63.40	-77.72	-33.17	-22.86
5000	-23.10	-31.12	-55.81	-55.72	-21.86	-23.46	-21.87	-24.51
5500	-27.67	-46.01	-25.99	-49.26	-25.42	-52.37	-24.85	-52.75
6000	-22.27	-35.20	-23.21	-38.21	-24.28	-45.96	-23.90	-46.23
6500	-16.10	-38.39	-15.64	-40.99	-28.04	-20.53	-27.56	-21.14
7000	-12.34	-51.65	-13.22	-54.63	-22.26	-25.10	-22.84	-25.56
7500	-19.72	-56.82	-21.04	-69.19	-27.56	-31.60	-28.32	-32.15
8000	-28.17	-72.97	-31.48	-66.08	-34.99	-35.40	-30.50	-44.26
8500	-43.86	-84.20	-45.89	-93.10	-26.52	-36.59	-25.47	-48.03
8750	-34.68	-81.04	-36.58	-91.59	-25.38	-39.07	-26.38	-49.62
9000	-28.03	-74.11	-29.95	-92.27	-25.46	-38.53	-26.19	-49.60
9250	-26.29	-72.58	-29.84	-91.80	-19.32	-38.76	-19.91	-39.04
9500	-30.02	-78.41	-32.71	-96.22	-13.87	-37.28	-15.22	-47.49
9750	-48.22	-89.70	-51.81	-94.33	-15.72	-41.99	-16.32	-48.40
10000	-44.84	-84.14	-47.84	-94.85	-17.06	-43.79	-18.73	-50.58
10250	-42.45	-92.26	-48.24	-94.54	-48.40	-90.57	-19.97	-48.19
10500	-44.22	-86.78	-50.16	-89.86	-21.99	-36.16	-23.39	-47.69
10750	-58.92	-85.70	-59.69	-90.00	-28.08	-33.54	-28.57	-33.65
11000	-59.23	-84.91	-68.93	-86.95	-56.02	-87.48	-31.73	-32.38
11250	-59.58	-86.20	-72.19	-88.92	-34.92	-32.57	-34.40	-32.35
11500	-54.10	-87.28	-57.60	-70.78	-42.67	-30.78	-42.77	-31.55
11750	-62.30	-85.71	-64.99	-86.66	-42.23	-40.89	-42.18	-40.02
12000	-78.29	-81.26	-56.79	-83.74	-41.04	-47.85	-40.77	-45.50
12250	-74.35	-79.45	-59.25	-77.72	-39.37	-42.36	-38.87	-40.59
12500	-68.89	-78.87	-62.72	-80.61	-39.32	-40.80	-39.12	-40.60
12750	-73.06	-75.40	-89.68	-86.00	-38.22	-40.55	-37.79	-39.62
13000	-72.96	-72.24	-60.03	-74.10	-38.50	-32.05	-37.97	-32.30
13250	-77.36	-67.68	-66.99	-74.86	-39.36	-31.39	-39.10	-32.17
13500	-85.46	-72.32	-93.56	-85.08	-42.15	-35.67	-41.75	-36.59
13750	-74.84	-80.45	-70.24	-78.76	-41.95	-34.44	-41.59	-33.76
14000	-84.37	-75.61	-66.83	-57.74	-72.64	-81.91	-77.37	-73.76
14250	-72.66	-82.05	-74.68	-63.48	-81.34	-84.37	-86.75	-74.55
14500	-73.06	-78.99	-71.25	-75.48	-92.90	-83.16	-64.92	-51.86
14750	-81.33	-72.82	-80.88	-78.98	-51.06	-42.10	-62.66	-53.06
15000	-90.76	-69.31	-82.58	-76.52	-52.92	-44.94	-63.35	-54.54

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Typical Performance Data

Frequency (MHz)	Phase Noise vs. Output frequency at selected offsets (dBc/Hz)				
	+25°C				
	100Hz	1kHz	10kHz	100kHz	1MHz
10	-132.00	-137.00	-140.80	-146.00	-147.00
50	-118.41	-133.52	-141.15	-143.09	-156.76
100	-113.61	-129.79	-137.23	-137.12	-158.85
200	-107.14	-124.77	-131.58	-131.31	-155.86
400	-100.37	-118.25	-125.35	-125.28	-151.17
800	-97.34	-111.78	-118.17	-118.48	-144.66
1600	-95.43	-106.11	-112.95	-112.81	-139.08
2000	-90.16	-104.50	-110.88	-110.93	-137.67
3200	-85.60	-100.16	-106.56	-106.27	-130.39
4000	-82.97	-98.27	-105.24	-105.32	-132.04
5000	-82.58	-96.09	-102.57	-102.84	-129.84
6000	-79.69	-94.33	-101.02	-100.89	-126.22
6400	-76.64	-94.14	-100.77	-100.45	-124.41
7000	-76.54	-93.49	-100.06	-99.70	-124.92
8000	-70.50	-90.01	-98.47	-98.97	-125.67
9000	-71.69	-90.53	-97.42	-97.91	-124.87
10000	-70.93	-92.88	-96.71	-96.93	-124.04
11000	-68.24	-91.06	-95.60	-95.82	-122.60
12000	-68.51	-90.75	-95.04	-94.88	-120.25
12800	-67.71	-89.92	-94.65	-94.43	-118.61
14000	-69.35	-89.24	-93.63	-93.40	-118.72
14500	-67.96	-91.61	-93.34	-93.12	-117.75
15000	-68.74	-88.12	-93.21	-92.84	-116.80

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# USB Synthesized Signal Generator

# SSG-15G-RC

## Typical Performance Data

Frequency Offset (kHz)	Phase Noise (dBc/Hz)						
	vs Offset frequency at selected output frequencies						
	@100MHz	@1000MHz	@4000MHz	@7000MHz	@10000MH	@12000MH	@15000MH
0.10	-114.17	-93.00	-83.66	-82.23	-71.23	-70.02	-67.40
0.12	-114.26	-95.08	-85.64	-77.26	-69.58	-72.07	-70.55
0.14	-119.32	-95.57	-84.03	-79.82	-74.55	-71.50	-73.01
0.17	-120.72	-97.94	-86.30	-81.55	-73.90	-74.70	-71.97
0.20	-124.22	-99.50	-86.22	-81.86	-72.58	-72.71	-71.42
0.24	-120.03	-102.71	-89.25	-85.99	-73.15	-72.78	-73.94
0.29	-122.89	-104.04	-92.61	-86.55	-73.49	-72.22	-73.60
0.35	-124.45	-103.29	-95.21	-88.23	-70.70	-72.64	-69.83
0.42	-125.81	-106.95	-94.49	-87.93	-73.04	-74.54	-75.13
0.50	-125.38	-106.42	-96.33	-91.96	-74.17	-74.08	-75.70
0.60	-126.74	-108.72	-96.66	-89.99	-76.23	-74.13	-74.41
0.71	-131.70	-108.15	-99.81	-91.28	-78.17	-76.26	-76.44
0.84	-128.63	-108.24	-98.68	-92.94	-80.33	-79.73	-79.62
1.00	-130.40	-110.01	-98.87	-93.38	-83.39	-81.85	-79.91
1.20	-130.49	-110.58	-99.03	-95.51	-83.95	-83.50	-82.60
1.43	-133.16	-111.03	-99.89	-97.56	-87.20	-86.94	-86.10
1.71	-133.06	-111.70	-101.58	-95.57	-88.94	-88.37	-86.48
2.04	-132.64	-113.44	-101.55	-97.09	-90.20	-89.22	-88.75
2.44	-134.82	-114.71	-102.31	-96.77	-92.23	-91.46	-89.18
2.92	-136.19	-114.54	-102.59	-98.21	-94.05	-92.30	-90.58
3.49	-135.42	-115.56	-103.85	-98.50	-94.42	-92.82	-90.87
4.17	-137.20	-115.94	-104.45	-98.52	-94.82	-93.77	-92.33
4.99	-135.91	-116.01	-104.39	-99.11	-95.62	-94.14	-91.97
5.96	-136.61	-116.66	-105.14	-100.16	-96.16	-94.80	-92.77
7.12	-137.21	-115.98	-105.16	-100.12	-97.14	-95.19	-92.67
8.37	-137.79	-117.51	-105.26	-100.54	-96.66	-94.60	-93.70
10.00	-137.10	-116.28	-105.04	-100.46	-97.04	-94.99	-93.51
11.95	-137.85	-117.36	-105.12	-100.44	-97.51	-94.89	-93.02
14.29	-137.13	-116.41	-105.08	-100.21	-96.64	-95.31	-93.01
17.08	-137.71	-116.49	-105.31	-100.20	-96.50	-95.07	-93.13
20.42	-137.22	-116.61	-105.13	-100.11	-96.56	-94.98	-93.03
24.41	-136.58	-116.52	-104.82	-100.03	-96.36	-94.98	-93.16
29.18	-136.50	-115.83	-104.50	-99.80	-96.44	-94.78	-92.99
34.88	-136.59	-115.99	-104.20	-99.57	-95.84	-94.59	-92.45
41.70	-136.36	-115.56	-104.23	-99.04	-95.69	-94.21	-92.50
49.85	-135.83	-115.38	-104.05	-98.99	-95.37	-93.94	-92.15
59.59	-135.87	-115.08	-103.82	-98.88	-95.27	-93.98	-92.26
71.24	-136.43	-115.70	-104.32	-99.44	-95.77	-94.14	-91.74
83.65	-136.82	-116.02	-104.95	-99.61	-96.38	-94.38	-92.71
100.00	-137.64	-117.08	-105.55	-100.08	-97.23	-95.13	-93.24
119.54	-138.58	-118.15	-106.68	-100.95	-98.71	-96.26	-94.08
142.90	-140.72	-120.53	-109.21	-102.87	-100.62	-97.78	-95.23
170.83	-143.26	-123.26	-111.96	-105.11	-103.41	-100.20	-97.56
204.21	-146.04	-126.02	-114.71	-107.46	-106.26	-102.60	-99.89
244.12	-148.14	-128.53	-117.08	-109.65	-108.59	-104.87	-101.78
291.82	-150.27	-130.67	-119.30	-111.65	-110.75	-106.86	-103.64
348.85	-152.21	-132.71	-121.31	-113.67	-112.88	-108.93	-105.61
417.02	-154.03	-134.61	-123.21	-115.56	-114.87	-110.86	-107.47
498.51	-155.50	-136.62	-125.16	-117.69	-116.71	-112.83	-109.50
595.93	-157.36	-138.42	-126.98	-119.58	-118.71	-114.88	-111.46
712.38	-158.49	-140.12	-128.77	-121.60	-120.62	-116.70	-113.36
851.59	-160.13	-141.89	-130.59	-123.32	-122.47	-118.63	-115.25
1000.00	-158.85	-141.31	-130.27	-122.83	-121.42	-118.47	-114.59

**Notes**

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



Typical Performance Data

Frequency (MHz)	Spurious @ ±100kHz to 50 MHz offset vs. output frequency, @ PWR=+5dBm		
	0°C	+25°C	+50°C
100	-85.12	-80.69	-84.65
250	-85.59	-95.72	-88.39
500	-85.53	-88.58	-81.88
1000	-83.05	-81.54	-81.96
1500	-79.05	-75.34	-75.47
2000	-80.11	-78.75	-77.99
2500	-81.29	-70.61	-77.68
3000	-76.79	-76.59	-76.90
3500	-85.64	-82.00	-85.53
4000	-75.37	-74.59	-75.46
4500	-76.97	-76.47	-77.10
5000	-76.93	-79.72	-80.84
5500	-79.64	-78.83	-76.27
6000	-82.72	-82.52	-83.24
6500	-74.73	-71.47	-70.33
7000	-72.05	-72.22	-72.55
7500	-71.57	-71.03	-71.46
8000	-68.56	-68.07	-68.46
8500	-68.35	-69.06	-69.78
9000	-72.21	-71.73	-72.46
9500	-70.77	-70.62	-71.17
10000	-72.47	-72.77	-73.89
10500	-71.94	-72.17	-72.97
11000	-72.90	-73.56	-74.38
11500	-72.83	-73.06	-74.22
12000	-71.89	-72.13	-73.62
12500	-71.56	-71.50	-72.12
13000	-70.28	-70.17	-71.48
13500	-72.22	-72.28	-73.74
14000	-71.91	-71.58	-72.61
14500	-73.49	-73.19	-74.46
15000	-73.55	-73.03	-73.94

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