

# Voltage Controlled Oscillator

# SOS-1000-519+

## Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ OFFSET (KHz)	PHASE NOISE (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F2	F3	F4			
0.0	56.18	940.9	932.2	925.2	-7.17	-5.94	-5.51	-25.9	-36.0	-44.5	0.92	1	-74
0.1	54.55	946.3	937.8	931.0	-7.18	-5.91	-5.48	-26.6	-36.0	-44.1	0.96	10	-99
0.2	53.27	951.6	943.3	936.6	-7.20	-5.91	-5.47	-27.2	-36.0	-44.0	0.92	100	-121
0.3	52.53	956.7	948.6	942.1	-7.21	-5.94	-5.47	-27.9	-35.8	-43.7	0.80	1000	-140
0.4	51.93	961.8	953.9	947.4	-7.25	-5.94	-5.48	-28.5	-35.6	-43.6	0.63		
0.5	51.77	966.9	959.1	952.7	-7.31	-5.95	-5.50	-29.3	-35.4	-43.2	0.46		
0.6	51.91	972.0	964.3	958.0	-7.38	-5.98	-5.50	-29.9	-35.3	-43.2	0.26		
0.7	52.19	977.0	969.4	963.2	-7.44	-6.02	-5.52	-30.7	-35.2	-43.2	0.08		
0.8	52.64	982.2	974.7	968.5	-7.50	-6.07	-5.55	-31.4	-35.1	-42.9	0.10		
0.9	53.64	987.5	979.9	973.7	-7.56	-6.12	-5.58	-32.2	-35.3	-42.8	0.26		
1.0	54.60	992.9	985.3	979.0	-7.61	-6.17	-5.63	-33.0	-35.6	-42.9	0.39		
1.1	55.26	998.3	990.8	984.4	-7.67	-6.23	-5.68	-33.9	-35.4	-42.9	0.49		
1.2	56.40	1004.0	996.3	989.9	-7.72	-6.28	-5.73	-34.9	-35.3	-43.0	0.57		
1.3	57.76	1009.7	1001.9	995.5	-7.72	-6.30	-5.76	-36.0	-35.2	-42.6	0.62		
1.4	58.93	1015.6	1007.7	1001.2	-7.72	-6.33	-5.78	-37.1	-35.3	-42.5	0.63		
1.5	60.22	1021.6	1013.6	1006.9	-7.76	-6.32	-5.78	-38.3	-35.3	-42.0	0.63		
1.6	61.67	1027.8	1019.6	1012.8	-7.83	-6.34	-5.78	-39.6	-35.4	-41.5	0.60		
1.7	63.05	1034.1	1025.8	1018.8	-7.89	-6.40	-5.81	-40.6	-35.5	-40.4	0.54		
1.8	63.51	1040.6	1032.1	1024.9	-7.98	-6.47	-5.87	-41.6	-35.2	-39.3	0.46		
1.9	64.67	1047.2	1038.4	1031.1	-8.06	-6.52	-5.92	-42.0	-34.9	-38.0	0.41		
2.0	65.67	1053.8	1044.9	1037.4	-8.09	-6.57	-5.94	-42.2	-35.0	-37.0	0.33		
2.1	65.94	1060.6	1051.5	1043.8	-8.16	-6.59	-5.95	-42.1	-34.9	-36.1	0.24		
2.2	66.77	1067.4	1058.1	1050.2	-8.22	-6.63	-5.94	-41.8	-34.6	-34.8	0.15		
2.3	67.19	1074.3	1064.7	1056.7	-8.24	-6.66	-5.94	-41.3	-34.5	-34.5	0.01		
2.4	65.73	1081.1	1071.5	1063.2	-8.30	-6.68	-5.97	-40.8	-34.6	-34.9	0.20		
2.5	65.02	1087.9	1078.0	1069.6	-8.33	-6.70	-6.03	-40.1	-34.6	-35.5	0.36		
2.6	64.24	1094.5	1084.5	1076.0	-8.29	-6.69	-6.02	-39.7	-34.9	-36.3	0.56		
2.7	62.41	1100.9	1091.0	1082.3	-8.29	-6.72	-6.01	-39.5	-35.6	-37.4	0.79		
2.8	60.71	1107.2	1097.2	1088.5	-8.37	-6.70	-6.01	-39.1	-36.0	-38.7	0.99		
2.9	59.24	1113.4	1103.3	1094.5	-8.40	-6.72	-6.00	-39.0	-36.3	-39.9	1.24		
3.0	57.09	1119.2	1109.2	1100.2	-8.40	-6.77	-5.97	-38.7	-36.7	-40.7	1.53		
3.1	53.82	1124.9	1114.9	1105.8	-8.41	-6.74	-5.98	-38.6	-37.2	-41.5	1.75		
3.2	52.12	1130.5	1120.3	1111.2	-8.44	-6.73	-5.97	-38.4	-37.6	-42.8	2.06		
3.3	50.32	1135.8	1125.5	1116.3	-8.42	-6.70	-5.95	-38.3	-38.3	-43.8	2.38		
3.4	48.23	1140.7	1130.5	1121.2	-8.44	-6.72	-5.92	-38.1	-38.9	-44.3	2.78		
3.5	48.23	1145.5	1135.3	1125.9	-8.45	-6.72	-5.89	-37.9	-39.1	-44.8	3.15		

