

# Voltage Controlled Oscillator

# ROS-1000C-519R+

## 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			
0.00	6.0	987.9	985.8	984.5	-1.0	-1.5	-1.9	-23.8	-36.0	-35.4	0.15	1	-98
0.25	5.3	989.3	987.3	986.0	-1.0	-1.5	-1.9	-23.8	-35.8	-34.9	0.08	10	-125
0.50	4.9	990.6	988.6	987.4	-1.0	-1.4	-1.9	-23.8	-35.6	-34.5	0.05	100	-145
0.75	4.6	991.8	989.8	988.6	-1.0	-1.4	-1.9	-23.8	-35.4	-34.2	0.04	1000	-164
1.00	4.4	992.9	991.0	989.8	-0.9	-1.4	-1.9	-23.8	-35.2	-34.0	0.02		
1.25	4.3	994.0	992.1	990.9	-0.9	-1.4	-1.8	-23.8	-35.1	-33.8	0.01		
1.50	4.2	995.1	993.2	992.0	-0.9	-1.4	-1.8	-23.7	-34.9	-33.3	0.01		
1.75	4.2	996.2	994.3	993.1	-0.9	-1.3	-1.8	-23.7	-35.0	-33.3	0.00		
2.00	4.2	997.3	995.3	994.1	-0.8	-1.3	-1.8	-23.6	-35.0	-33.0	0.00		
2.25	4.2	998.3	996.4	995.2	-0.8	-1.3	-1.7	-23.5	-34.7	-32.8	0.01		
2.50	4.2	999.4	997.4	996.2	-0.8	-1.3	-1.7	-23.4	-34.8	-32.6	0.01		
2.75	4.3	1000.4	998.5	997.3	-0.8	-1.2	-1.7	-23.3	-34.9	-32.2	0.01		
3.00	4.3	1001.5	999.5	998.3	-0.7	-1.2	-1.6	-23.2	-35.0	-32.0	0.02		
3.25	4.4	1002.6	1000.6	999.4	-0.7	-1.2	-1.6	-23.1	-34.8	-31.7	0.02		
3.50	4.4	1003.7	1001.7	1000.5	-0.7	-1.2	-1.6	-23.0	-34.7	-31.4	0.03		
3.75	4.5	1004.8	1002.8	1001.6	-0.6	-1.1	-1.6	-22.9	-34.5	-31.1	0.03		
4.00	4.5	1006.0	1003.9	1002.7	-0.6	-1.1	-1.6	-22.9	-34.2	-30.8	0.03		
4.25	4.5	1007.1	1005.0	1003.8	-0.6	-1.1	-1.5	-22.9	-33.8	-30.6	0.03		
4.50	4.6	1008.2	1006.2	1004.9	-0.6	-1.1	-1.5	-22.8	-33.4	-30.2	0.02		
4.75	4.6	1009.4	1007.3	1006.1	-0.5	-1.0	-1.5	-22.8	-33.2	-29.9	0.01		
5.00	4.6	1010.5	1008.5	1007.2	-0.5	-1.0	-1.5	-22.7	-33.0	-29.7	0.00		
5.25	4.6	1011.7	1009.6	1008.4	-0.5	-1.0	-1.4	-22.7	-32.8	-29.4	0.01		
5.50	4.5	1012.8	1010.7	1009.5	-0.4	-1.0	-1.4	-22.7	-32.7	-29.1	0.03		
5.75	4.5	1014.0	1011.9	1010.6	-0.4	-0.9	-1.4	-22.7	-32.7	-28.9	0.04		
6.00	4.4	1015.1	1013.0	1011.8	-0.4	-0.9	-1.3	-22.7	-32.6	-28.6	0.06		
6.25	4.4	1016.2	1014.1	1012.9	-0.4	-0.9	-1.3	-22.7	-32.7	-28.4	0.07		
6.50	4.3	1017.3	1015.2	1014.0	-0.4	-0.9	-1.3	-22.7	-32.6	-28.3	0.09		
6.75	4.2	1018.3	1016.3	1015.0	-0.3	-0.8	-1.3	-22.7	-32.8	-28.2	0.10		
7.00	4.2	1019.4	1017.3	1016.1	-0.3	-0.8	-1.2	-22.7	-32.9	-28.1	0.12		

**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.
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