

# Voltage Controlled Oscillator

ROS-1950-519+

## 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	26.66	1738.7	1735.5	1733.3	5.20	5.16	4.66	-13.4	-38.7	-45.0	0.13	1	-85
0.5	24.24	1751.9	1748.8	1746.4	4.73	4.87	4.66	-13.5	-36.6	-43.7	0.19	10	-110
1.0	23.29	1764.2	1760.9	1758.2	4.38	4.65	4.58	-13.9	-36.2	-43.9	0.23	100	-130
1.5	22.93	1776.2	1772.6	1769.5	4.06	4.47	4.50	-14.3	-35.6	-43.8	0.27	1000	-149
2.0	22.89	1788.0	1784.0	1780.6	3.84	4.36	4.45	-15.0	-35.7	-42.9	0.30		
2.5	23.01	1799.8	1795.5	1791.8	3.67	4.27	4.40	-15.7	-35.3	-42.8	0.32		
3.0	23.17	1811.6	1807.0	1803.0	3.53	4.19	4.35	-16.0	-34.7	-42.1	0.34		
3.5	23.48	1823.5	1818.6	1814.3	3.45	4.12	4.28	-16.2	-34.5	-41.8	0.35		
4.0	23.70	1835.6	1830.3	1825.8	3.39	4.07	4.26	-16.4	-34.5	-41.4	0.35		
4.5	23.94	1847.6	1842.1	1837.4	3.41	4.07	4.23	-16.7	-34.2	-41.3	0.35		
5.0	24.12	1859.8	1854.1	1849.2	3.42	4.10	4.26	-17.8	-34.4	-40.7	0.36		
5.5	24.20	1872.0	1866.2	1861.1	3.45	4.12	4.27	-19.0	-33.9	-39.4	0.36		
6.0	24.36	1884.3	1878.3	1873.0	3.50	4.15	4.29	-19.2	-33.8	-38.5	0.35		
6.5	24.49	1896.7	1890.5	1885.1	3.52	4.20	4.35	-20.1	-33.8	-38.0	0.35		
7.0	24.58	1909.0	1902.7	1897.2	3.56	4.21	4.36	-20.0	-34.2	-37.4	0.35		
7.5	24.73	1921.5	1915.0	1909.3	3.57	4.24	4.39	-20.0	-33.7	-35.7	0.35		
8.0	24.84	1933.9	1927.4	1921.6	3.61	4.25	4.39	-20.3	-33.8	-34.9	0.35		
8.5	25.02	1946.5	1939.8	1933.8	3.67	4.30	4.43	-20.4	-33.8	-33.6	0.35		
9.0	25.04	1959.1	1952.3	1946.2	3.73	4.36	4.48	-20.9	-33.8	-33.3	0.35		
9.5	25.08	1971.7	1964.8	1958.7	3.75	4.40	4.52	-21.1	-34.1	-31.4	0.34		
10.0	25.04	1984.3	1977.3	1971.1	3.78	4.43	4.55	-21.5	-33.5	-30.3	0.33		
10.5	25.14	1996.9	1989.9	1983.6	3.83	4.46	4.56	-21.7	-33.6	-29.1	0.30		
11.0	25.11	2009.6	2002.4	1996.1	3.88	4.54	4.63	-22.1	-33.6	-29.6	0.28		
11.5	24.82	2022.1	2015.0	2008.5	3.95	4.60	4.70	-22.2	-34.0	-29.5	0.23		
12.0	24.89	2034.7	2027.4	2020.9	3.99	4.66	4.76	-22.8	-33.9	-28.9	0.18		

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