

# Voltage Controlled Oscillator

# ROS-1900V+

## 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	34.10	1381.4	1370.1	1360.3	10.67	10.05	9.44	-13.4	-19.0	-24.5	1.09	1	-75
0.5	31.25	1398.0	1387.2	1377.9	10.60	10.04	9.47	-13.5	-18.4	-25.5	1.00	10	-100
1.0	30.74	1413.7	1402.8	1393.5	10.52	9.98	9.45	-13.6	-18.5	-27.1	0.95	100	-121
1.5	30.70	1429.1	1418.2	1408.7	10.43	9.92	9.40	-13.7	-18.1	-27.5	0.87	1000	-141
2.0	30.66	1444.3	1433.5	1424.0	10.38	9.85	9.33	-13.9	-17.8	-27.0	0.82		
2.5	31.00	1459.6	1448.9	1439.3	10.31	9.83	9.29	-13.9	-17.9	-26.2	0.77		
3.0	31.35	1475.2	1464.4	1454.7	10.23	9.77	9.29	-14.3	-18.4	-26.1	0.72		
3.5	31.71	1490.9	1480.0	1470.2	10.16	9.74	9.26	-14.4	-18.8	-25.6	0.68		
4.0	32.32	1507.1	1495.9	1485.9	10.06	9.69	9.25	-14.4	-18.3	-25.7	0.59		
4.5	32.33	1523.2	1512.1	1501.8	9.97	9.65	9.22	-15.2	-18.3	-26.0	0.49		
5.0	32.70	1539.7	1528.2	1517.8	9.84	9.60	9.21	-15.1	-18.4	-27.1	0.36		
5.5	32.16	1555.8	1544.6	1533.9	9.78	9.53	9.17	-15.5	-17.9	-26.4	0.23		
6.0	32.38	1572.1	1560.6	1550.0	9.67	9.50	9.13	-16.0	-17.8	-26.4	0.16		
6.5	32.23	1588.4	1576.8	1565.9	9.60	9.44	9.12	-16.2	-17.4	-26.9	0.02		
7.0	32.13	1604.6	1592.9	1581.9	9.52	9.40	9.08	-16.2	-17.3	-27.1	0.04		
7.5	31.69	1620.7	1609.0	1597.8	9.48	9.35	9.05	-16.7	-17.4	-26.6	0.10		
8.0	31.53	1636.6	1624.9	1613.7	9.45	9.34	9.02	-17.3	-17.3	-27.5	0.11		
8.5	31.55	1652.5	1640.6	1629.3	9.42	9.33	9.01	-17.2	-17.7	-28.7	0.13		
9.0	32.13	1668.8	1656.4	1644.9	9.36	9.30	9.00	-17.2	-17.5	-28.2	0.17		
9.5	31.62	1684.9	1672.5	1660.6	9.39	9.28	8.97	-17.4	-17.5	-28.3	0.19		
10.0	30.84	1700.6	1688.3	1676.5	9.42	9.30	8.95	-16.8	-18.0	-29.1	0.05		
10.5	29.58	1715.8	1703.7	1692.0	9.53	9.33	8.96	-16.8	-18.4	-29.5	0.08		
11.0	29.18	1730.5	1718.5	1707.1	9.55	9.40	8.99	-16.6	-18.3	-28.4	0.24		
11.5	29.72	1745.7	1733.1	1721.7	9.53	9.40	9.04	-16.6	-18.4	-28.5	0.25		
12.0	29.22	1760.5	1747.9	1736.2	9.53	9.38	9.02	-16.6	-18.8	-29.0	0.26		
12.5	28.43	1775.0	1762.5	1750.9	9.54	9.36	8.99	-16.2	-19.1	-28.0	0.28		
13.0	27.22	1788.9	1776.8	1765.3	9.59	9.36	8.96	-16.2	-19.1	-28.1	0.27		
13.5	26.39	1802.3	1790.4	1779.3	9.63	9.40	8.95	-16.4	-19.3	-29.3	0.24		
14.0	25.46	1815.1	1803.6	1792.7	9.63	9.42	8.98	-16.2	-19.8	-28.9	0.18		
14.5	24.99	1827.7	1816.3	1805.7	9.58	9.41	8.99	-16.2	-20.4	-28.7	0.08		
15.5	24.33	1852.6	1841.3	1830.7	9.45	9.31	8.94	-18.6	-20.8	-28.1	0.17		
16.0	24.00	1864.7	1853.4	1842.9	9.38	9.25	8.90	-19.9	-22.0	-29.1	0.28		
17.0	22.31	1888.1	1877.2	1866.6	9.26	9.15	8.82	-22.3	-22.8	-28.2	0.54		
17.5	21.39	1899.0	1888.3	1878.0	9.20	9.12	8.79	-24.5	-23.5	-28.8	0.61		
18.5	20.31	1920.0	1909.4	1899.2	9.08	9.06	8.75	-29.5	-23.8	-29.5	0.79		
19.0	19.99	1930.3	1919.6	1909.2	9.01	9.01	8.74	-32.1	-23.9	-30.0	0.87		
20.0	19.46	1950.5	1939.5	1928.8	8.84	8.89	8.67	-34.1	-22.4	-30.3	1.05		
20.5	18.99	1960.4	1949.2	1938.3	8.75	8.83	8.62	-32.8	-22.1	-30.5	1.13		
21.5	17.08	1978.8	1967.7	1956.7	8.71	8.73	8.53	-28.1	-21.6	-31.6	1.16		
22.0	17.08	1987.3	1976.3	1965.4	8.70	8.73	8.50	-27.0	-21.3	-32.7	1.12		