

# Voltage Controlled Oscillator

# ROS-2150VW+

## 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	74.41	820.8	804.3	786.8	3.56	3.97	3.95	-13.2	-22.4	-48.1	2.09	1	-74
0.5	75.30	858.5	841.5	824.1	4.01	4.30	4.07	-12.5	-23.4	-47.9	1.92	10	-101
2.0	75.85	972.1	954.9	939.6	4.87	4.81	3.88	-11.4	-28.1	-40.6	1.49	100	-122
3.0	76.41	1047.1	1030.8	1017.5	5.04	4.72	3.64	-12.1	-29.3	-37.2	1.32	1000	-142
4.0	77.96	1122.7	1107.2	1095.7	5.01	4.59	3.34	-12.8	-33.1	-37.8	0.89		
5.0	79.59	1200.5	1185.2	1174.5	4.81	4.44	3.18	-14.2	-27.6	-37.9	0.69		
6.0	80.48	1280.2	1264.7	1254.3	4.60	4.37	3.13	-15.6	-25.9	-38.6	0.45		
7.0	80.17	1360.8	1345.2	1335.1	4.51	4.44	3.31	-16.5	-24.8	-41.1	0.11		
8.0	79.30	1441.2	1425.4	1415.8	4.55	4.67	3.70	-17.4	-23.9	-41.6	1.18		
9.0	78.08	1519.9	1504.7	1495.9	4.39	4.43	3.38	-21.0	-25.6	-55.3	1.43		
10.0	76.31	1598.4	1582.8	1573.7	3.82	4.00	2.99	-31.1	-24.6	-41.9	0.68		
11.0	70.26	1675.8	1659.1	1649.1	3.85	4.00	3.25	-36.8	-24.4	-46.8	0.64		
12.0	65.57	1745.9	1729.3	1719.1	4.07	4.22	3.54	-32.8	-24.5	-48.1	0.62		
13.0	59.90	1811.9	1794.9	1784.0	4.09	4.25	3.67	-30.3	-26.3	-44.7	0.47		
14.0	55.60	1872.2	1854.8	1843.8	4.10	4.34	3.87	-28.1	-27.5	-44.6	0.26		
15.0	49.95	1928.1	1910.4	1898.8	4.22	4.47	3.94	-26.9	-29.1	-42.2	0.01		
16.0	45.83	1978.6	1960.4	1948.3	4.24	4.50	4.11	-25.6	-29.2	-42.6	0.31		
17.0	41.26	2025.0	2006.2	1993.7	4.27	4.45	4.10	-26.3	-30.7	-39.7	0.60		
18.0	37.06	2066.0	2047.5	2034.9	4.37	4.66	4.23	-26.5	-31.8	-39.6	0.84		
19.0	33.49	2103.8	2084.5	2071.2	4.28	4.61	4.28	-25.6	-28.5	-40.0	1.25		
20.0	28.81	2137.5	2118.0	2104.2	4.35	4.59	4.24	-25.1	-34.3	-37.4	1.46		
21.0	25.15	2166.2	2146.8	2133.3	4.32	4.66	4.26	-25.7	-31.9	-38.3	1.66		
22.0	22.82	2192.9	2172.0	2157.7	4.23	4.60	4.28	-25.2	-30.4	-39.6	2.12		
23.0	18.74	2214.9	2194.8	2179.6	4.28	4.54	4.18	-26.1	-33.1	-39.7	2.42		
24.0	15.53	2233.6	2213.5	2198.7	4.23	4.58	4.17	-25.9	-35.1	-40.1	2.58		
25.0	14.13	2250.6	2229.1	2214.3	4.18	4.53	4.20	-26.6	-31.7	-40.7	3.00		
26.0	12.10	2264.5	2243.2	2227.2	4.21	4.50	4.17	-26.3	-34.1	-41.0	3.40		
27.0	12.10	2276.4	2255.3	2238.8	4.15	4.50	4.15	-26.2	-35.2	-40.6	3.49		

**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)

