

# Voltage Controlled Oscillator

# ROS-1600W+

## 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	74.62	645.6	627.3	607.1	9.80	9.48	9.27	-36.7	-26.1	-35.5	0.19	1	-71
0.5	65.03	681.8	664.6	646.9	9.82	9.44	9.20	-42.4	-25.9	-35.9	0.24	10	-98
1.0	57.95	712.9	697.1	680.3	9.72	9.38	9.15	-37.8	-25.2	-36.2	0.28	100	-122
1.5	53.44	741.5	726.1	709.9	9.67	9.40	9.01	-33.9	-24.8	-37.6	0.28	1000	-144
2.0	51.19	768.0	752.8	737.4	9.71	9.37	8.92	-30.7	-24.4	-39.3	0.28		
2.5	50.46	793.5	778.4	763.2	9.79	9.33	8.90	-29.6	-24.7	-41.3	0.29		
3.0	49.54	818.7	803.6	788.2	9.81	9.32	8.90	-28.1	-24.4	-44.6	0.31		
3.5	49.31	844.0	828.4	813.1	9.84	9.34	8.89	-26.8	-24.5	-47.1	0.30		
4.0	48.56	868.3	853.0	837.9	9.85	9.34	8.91	-26.4	-24.4	-48.5	0.29		
4.5	48.50	892.6	877.3	862.2	9.79	9.37	8.94	-24.9	-24.7	-49.4	0.27		
5.0	49.33	917.5	901.6	886.4	9.84	9.39	8.88	-24.2	-24.4	-49.8	0.26		
5.5	49.72	942.3	926.2	910.9	9.92	9.40	8.84	-23.1	-24.2	-49.9	0.25		
6.0	50.53	967.4	951.1	935.6	10.03	9.43	8.85	-22.4	-24.4	-48.5	0.25		
6.5	51.90	993.1	976.4	960.7	10.10	9.46	8.90	-21.9	-25.2	-47.6	0.25		
7.0	53.68	1019.3	1002.3	986.5	10.16	9.46	8.95	-21.5	-25.8	-46.1	0.26		
7.5	53.69	1046.1	1029.1	1012.9	10.13	9.49	8.97	-20.9	-26.9	-44.2	0.29		
8.0	56.17	1073.6	1056.0	1039.9	10.03	9.52	8.93	-21.0	-28.9	-43.2	0.31		
8.5	57.26	1101.9	1084.1	1067.9	10.11	9.47	8.83	-20.4	-31.1	-41.4	0.32		
9.0	57.28	1130.7	1112.7	1096.1	10.22	9.44	8.80	-20.4	-32.5	-40.7	0.28		
9.5	57.96	1159.9	1141.3	1124.9	10.23	9.40	8.84	-20.5	-35.0	-40.2	0.25		
10.0	58.16	1188.8	1170.3	1154.1	10.18	9.35	8.82	-20.7	-34.6	-39.1	0.22		
10.5	56.13	1217.3	1199.4	1183.1	10.06	9.28	8.72	-20.9	-35.0	-38.8	0.13		
11.5	53.98	1273.4	1255.8	1240.3	9.88	9.16	8.42	-21.0	-33.0	-38.3	0.05		
12.0	52.65	1300.1	1282.7	1267.6	9.94	9.07	8.32	-20.6	-32.4	-38.2	0.16		
13.0	49.39	1350.5	1334.4	1320.5	9.77	8.82	8.29	-21.0	-31.3	-42.1	0.27		
13.5	47.72	1374.4	1359.1	1345.6	9.53	8.68	8.13	-21.3	-31.0	-41.8	0.28		
14.5	45.01	1421.3	1406.5	1393.4	9.10	8.41	7.73	-21.6	-31.4	-41.2	0.29		
15.0	43.16	1443.5	1429.0	1416.2	8.99	8.26	7.55	-21.4	-30.8	-41.1	0.28		
16.0	41.89	1486.4	1472.0	1459.5	8.89	7.96	7.38	-21.8	-30.5	-43.1	0.25		
16.5	40.71	1507.0	1492.9	1480.5	8.78	7.83	7.37	-21.9	-30.4	-43.0	0.23		
17.5	38.13	1546.5	1532.8	1520.6	8.36	7.62	7.13	-22.3	-30.5	-45.9	0.18		
18.0	37.87	1565.8	1551.9	1539.7	8.21	7.46	6.95	-22.7	-30.0	-46.7	0.17		
19.0	35.22	1602.7	1589.3	1577.1	7.95	7.33	6.71	-24.3	-29.9	-48.1	0.11		
19.5	34.00	1620.1	1606.9	1594.7	7.85	7.21	6.63	-24.8	-30.0	-47.4	0.09		
20.5	31.70	1653.8	1640.4	1628.2	7.72	6.94	6.48	-26.2	-30.2	-46.8	0.06		
21.0	30.75	1669.7	1656.2	1644.3	7.61	6.79	6.47	-27.0	-30.0	-47.1	0.04		
22.0	29.05	1699.9	1686.7	1674.6	7.27	6.59	6.34	-28.2	-30.2	-46.4	0.01		
22.5	27.83	1714.3	1701.2	1689.1	7.12	6.55	6.17	-28.7	-30.8	-45.9	0.01		
23.5	25.85	1741.6	1728.5	1716.5	6.86	6.38	5.88	-29.8	-31.5	-47.3	0.01		
24.0	25.85	1754.6	1741.4	1729.6	6.76	6.30	5.75	-30.2	-32.3	-47.6	0.02		