

# Voltage Controlled Oscillator

# ROS-6640C-119+

## Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)					FREQ. PUSH (MHz/V)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F0.5	F1.5	F2	F3	F4	
0.00	68.92	6330.5	6311.3	6300.7	0.23	-0.65	-2.28	-20.5	-20.8	-26.4	-43.0	-38.0	2.36
0.25	66.65	6347.0	6328.5	6318.5	0.46	-0.43	-2.09	-20.8	-21.3	-27.0	-42.5	-39.5	2.49
0.50	65.46	6362.9	6345.2	6335.2	0.78	-0.53	-1.59	-20.7	-21.6	-25.8	-43.6	-40.1	2.59
0.75	63.85	6378.7	6361.5	6351.1	1.16	-0.35	-1.19	-20.7	-22.3	-26.0	-43.7	-39.9	2.61
1.00	63.73	6394.7	6377.5	6366.8	1.36	0.21	-1.02	-21.0	-22.7	-26.2	-44.4	-39.4	2.60
1.25	65.85	6411.4	6393.4	6383.0	1.41	0.54	-1.05	-21.2	-22.7	-25.7	-44.6	-39.3	2.64
1.50	69.51	6428.3	6409.9	6399.5	1.81	0.60	-0.70	-21.2	-22.7	-25.8	-44.0	-38.8	2.76
1.75	72.14	6445.3	6427.3	6416.6	2.19	0.69	-0.51	-21.3	-22.4	-25.7	-44.5	-40.4	2.86
2.00	74.56	6462.9	6445.3	6434.3	2.15	0.97	-0.41	-21.5	-22.1	-25.8	-45.0	-40.6	2.92
2.25	77.92	6481.8	6463.9	6452.4	2.24	1.06	0.10	-21.6	-22.1	-25.5	-45.2	-40.1	2.97
2.50	80.85	6501.8	6483.4	6471.2	2.32	0.85	0.06	-21.6	-21.7	-25.8	-46.1	-40.7	3.05
2.75	87.45	6523.0	6503.6	6491.6	2.38	1.25	-0.41	-22.0	-22.7	-25.3	-45.0	-40.7	3.13
3.00	93.46	6545.1	6525.5	6513.3	2.24	1.11	-0.32	-21.6	-22.4	-25.7	-44.6	-40.5	3.32
3.25	97.01	6568.0	6548.9	6535.8	2.44	0.98	-0.05	-21.3	-23.7	-24.7	-45.7	-41.3	3.34
3.50	99.15	6593.2	6573.1	6559.4	1.88	0.48	-0.42	-20.9	-23.2	-24.0	-46.1	-41.6	3.23
3.75	105.37	6619.4	6597.9	6584.5	1.74	0.87	-0.80	-21.3	-24.8	-24.3	-45.4	-41.6	3.04
4.00	106.57	6645.3	6624.2	6610.6	1.80	0.40	-1.04	-20.9	-24.7	-23.3	-45.6	-41.6	2.63
4.25	102.24	6672.3	6650.9	6636.8	0.99	0.02	-1.36	-20.6	-24.6	-22.7	-45.3	-41.6	1.79
4.50	101.69	6698.9	6676.4	6662.4	0.88	0.20	-1.50	-20.8	-24.6	-22.6	-45.3	-41.6	0.81
4.75	95.01	6724.1	6701.9	6687.9	0.71	-0.70	-2.22	-19.7	-23.4	-21.3	-44.6	-41.6	0.23
5.00	87.30	6747.3	6725.6	6711.8	0.43	-0.79	-2.41	-19.6	-22.1	-21.0	-43.6	-41.6	1.19
5.25	78.92	6769.2	6747.4	6733.8	-0.38	-0.67	-2.39	-19.8	-22.7	-21.0	-43.3	-41.6	1.86
5.50	70.94	6789.1	6767.2	6753.7	-0.87	-0.99	-3.01	-19.5	-21.2	-20.4	-41.8	-41.6	2.12
5.75	62.09	6806.3	6784.9	6771.4	-0.67	-1.93	-3.37	-18.5	-19.6	-19.7	-41.4	-41.6	2.00
6.00	54.18	6821.3	6800.4	6787.2	-0.71	-2.34	-3.62	-18.0	-19.3	-19.2	-40.4	-41.6	1.49
6.25	47.23	6834.5	6814.0	6800.9	-1.28	-2.13	-3.82	-18.4	-18.8	-19.1	-39.7	-41.6	0.74
6.50	40.53	6845.9	6825.8	6812.7	-1.62	-2.28	-3.93	-18.3	-18.3	-18.7	-41.7	-41.6	0.15
6.75	34.76	6855.7	6835.9	6822.8	-2.30	-2.37	-4.12	-18.2	-17.7	-19.0	-41.2	-41.6	1.05
7.00	34.76	6864.0	6844.6	6831.5	-2.77	-2.49	-4.22	-18.1	-17.3	-19.2	-41.2	-41.6	1.89

FREQ OFFSET (KHz)	PHASE NOISE (dBc/Hz)
1	-71.2
10	-99.9
100	-122.3
1000	-142.1