

# Voltage Controlled Oscillator

# ROS-2450C+

## 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	43.14	2065.4	2060.4	2054.8	6.43	6.22	5.89	-23.78	-17.72	-51.29	1.39	1	-78.2
0.5	38.40	2086.4	2082.0	2076.9	6.43	6.29	5.99	-22.34	-17.17	-46.13	0.75	10	-106.2
1.0	36.35	2105.5	2101.2	2096.1	6.50	6.38	6.06	-22.10	-16.96	-39.35	0.75	100	-127.9
1.5	35.71	2123.9	2119.4	2114.2	6.67	6.51	6.15	-22.63	-17.96	-36.67	0.64	1000	-148.1
2.0	35.46	2142.0	2137.2	2131.8	6.74	6.63	6.29	-23.25	-20.09	-36.66	0.64		
2.5	34.82	2159.9	2154.9	2149.4	6.79	6.70	6.36	-23.52	-21.22	-38.17	0.43		
3.0	34.43	2177.4	2172.4	2166.8	6.91	6.78	6.37	-23.48	-23.72	-38.56	0.43		
3.5	34.30	2194.9	2189.6	2183.9	7.03	6.90	6.49	-24.30	-24.43	-38.92	0.43		
4.0	34.30	2212.3	2206.7	2200.9	7.15	7.01	6.58	-24.61	-25.73	-40.67	0.32		
4.5	34.18	2229.6	2223.9	2217.9	7.22	7.07	6.65	-24.38	-29.34	-43.16	0.32		
5.0	33.66	2246.8	2241.0	2234.8	7.24	7.14	6.71	-24.95	-29.09	-45.37	0.21		
5.5	33.15	2263.7	2257.8	2251.7	7.32	7.17	6.69	-25.07	-30.30	-46.32	0.11		
6.0	32.90	2280.5	2274.4	2268.2	7.40	7.24	6.76	-24.81	-31.14	-46.62	0.11		
6.5	32.77	2297.2	2290.8	2284.5	7.45	7.29	6.80	-25.22	-33.58	-47.89	0.00		
7.0	32.26	2313.7	2307.2	2300.8	7.45	7.29	6.82	-25.43	-35.82	-48.24	0.11		
7.5	31.74	2329.9	2323.3	2317.0	7.49	7.33	6.80	-24.69	-35.56	-45.34	0.00		
8.0	30.85	2345.7	2339.2	2332.9	7.54	7.34	6.81	-24.66	-36.76	-41.89	0.11		
8.5	30.59	2361.3	2354.6	2348.4	7.63	7.42	6.86	-25.33	-40.44	-40.50	0.21		
9.0	30.72	2376.8	2369.9	2363.6	7.69	7.48	6.92	-25.14	-39.51	-41.91	0.32		
9.5	30.08	2392.1	2385.3	2378.9	7.70	7.49	6.94	-24.32	-38.70	-43.76	0.43		
10.0	28.93	2407.0	2400.3	2394.0	7.74	7.49	6.93	-24.48	-42.33	-42.43	0.32		
10.5	28.16	2421.4	2414.8	2408.7	7.82	7.58	6.97	-24.83	-40.73	-41.38	0.43		
11.0	28.29	2435.6	2428.9	2422.9	7.93	7.65	7.03	-24.47	-42.44	-42.72	0.53		
11.5	27.65	2449.8	2443.0	2436.9	7.95	7.71	7.11	-24.11	-43.66	-43.54	0.43		
12.0	27.01	2463.6	2456.8	2450.9	7.96	7.71	7.11	-24.09	-43.42	-42.71	0.43		
12.5	25.73	2476.9	2470.3	2464.5	8.00	7.71	7.10	-24.12	-43.51	-43.81	0.43		
13.0	24.19	2489.5	2483.2	2477.6	8.02	7.73	7.12	-23.43	-46.76	-43.32	0.43		
13.5	23.30	2501.7	2495.3	2489.9	8.10	7.78	7.13	-23.20	-42.77	-42.72	0.32		
14.0	22.14	2513.3	2506.9	2501.6	8.14	7.83	7.20	-23.22	-45.94	-45.73	0.32		
14.5	20.48	2524.4	2518.0	2512.7	8.17	7.87	7.23	-23.03	-44.53	-43.80	0.21		
15.0	18.56	2534.6	2528.3	2523.0	8.19	7.89	7.26	-22.91	-47.96	-47.34	0.11		
15.5	16.13	2543.7	2537.5	2532.4	8.21	7.90	7.27	-22.54	-47.10	-46.12	0.00		
16.0	13.70	2551.6	2545.6	2540.6	8.23	7.92	7.29	-22.09	-48.37	-47.44	0.11		
16.5	11.65	2558.3	2552.4	2547.6	8.26	7.94	7.30	-21.87	-48.74	-47.62	0.00		
17.0	9.73	2564.2	2558.3	2553.4	8.27	7.96	7.32	-21.68	-47.40	-46.07	0.11		
17.5	8.19	2569.2	2563.1	2558.3	8.27	7.97	7.34	-21.77	-46.89	-47.01	0.11		
18.0	8.19	2573.2	2567.2	2562.3	8.25	7.97	7.35	-21.92	-47.46	-48.99	0.21		