

Voltage Controlled Oscillator

ROS-ED8540/1

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			
0.5	48.48	2043.8	2030.3	2013.0	6.05	5.68	4.97	-36.5	-34.5	-37.9	0.82	1	-78
1.0	38.86	2062.7	2049.7	2033.0	6.08	5.67	5.03	-37.0	-33.8	-38.4	0.88	10	-101
1.5	34.76	2079.6	2067.1	2050.6	6.06	5.72	5.07	-36.6	-33.3	-42.3	0.94	100	-121
2.0	31.70	2095.3	2082.9	2066.7	6.01	5.66	5.09	-36.0	-32.8	-38.2	0.94	1000	-141
2.5	30.20	2110.3	2098.0	2082.0	6.02	5.58	5.06	-35.4	-32.6	-34.7	0.92		
3.0	29.08	2124.8	2112.6	2096.6	6.04	5.58	5.00	-34.4	-31.9	-34.1	1.03		
3.5	28.68	2139.1	2126.9	2110.9	6.04	5.61	4.99	-33.2	-31.9	-32.0	1.05		
4.0	28.12	2153.2	2141.0	2124.9	6.01	5.59	5.00	-33.1	-31.9	-32.0	1.08		
4.5	28.36	2167.4	2155.2	2139.0	5.97	5.52	4.98	-31.8	-31.9	-33.0	1.13		
5.0	28.40	2181.6	2169.4	2153.1	5.93	5.46	4.94	-31.1	-32.0	-34.0	1.14		
5.5	28.74	2195.9	2183.7	2167.5	5.90	5.47	4.91	-30.3	-31.6	-36.3	1.20		
6.0	29.10	2210.6	2198.3	2182.0	5.85	5.37	4.87	-30.2	-31.3	-38.6	1.19		
6.5	29.68	2225.5	2213.1	2196.8	5.82	5.36	4.85	-29.6	-31.1	-42.8	1.23		
7.0	30.32	2240.9	2228.3	2211.9	5.82	5.33	4.80	-28.2	-30.4	-50.1	1.30		
7.5	31.28	2256.7	2243.9	2227.3	5.79	5.25	4.75	-29.1	-30.0	-42.1	1.33		
8.0	32.42	2273.0	2260.1	2243.3	5.69	5.23	4.74	-29.6	-29.3	-38.7	1.42		
8.5	33.62	2289.8	2276.9	2259.8	5.58	5.19	4.71	-32.5	-28.6	-39.4	1.42		
9.0	34.40	2307.2	2294.1	2277.0	5.50	5.10	4.62	-27.6	-27.8	-39.6	1.47		
9.5	35.46	2325.0	2311.9	2294.7	5.43	5.01	4.53	-25.1	-27.6	-38.9	1.49		
10.0	36.16	2343.1	2329.9	2312.8	5.38	4.92	4.46	-26.5	-26.8	-39.8	1.50		
10.5	37.02	2361.6	2348.5	2331.1	5.36	4.89	4.38	-25.8	-25.8	-41.2	1.49		
11.0	37.38	2380.4	2367.1	2349.7	5.28	4.85	4.35	-25.9	-25.4	-43.4	1.49		
11.5	37.52	2399.2	2385.9	2368.4	5.16	4.73	4.36	-25.7	-24.8	-43.2	1.42		
12.0	37.40	2417.7	2404.6	2387.1	5.03	4.63	4.25	-22.8	-24.5	-45.0	1.37		
12.5	36.74	2436.0	2423.0	2405.5	4.97	4.46	4.13	-24.6	-24.1	-45.6	1.33		
13.0	35.94	2454.0	2440.9	2423.5	4.92	4.48	4.04	-23.6	-24.0	-43.7	1.31		
13.5	35.06	2471.5	2458.5	2441.0	4.84	4.41	4.02	-23.3	-24.1	-44.6	1.22		
14.0	34.02	2488.7	2475.5	2457.9	4.72	4.34	3.97	-22.6	-24.9	-41.8	1.22		
14.5	32.96	2505.3	2492.0	2474.1	4.52	4.22	3.94	-22.0	-25.0	-39.7	1.17		
15.0	31.66	2521.2	2507.8	2489.8	4.34	4.02	3.87	-21.1	-25.9	-39.8	1.20		
15.5	30.50	2536.6	2523.0	2504.8	4.23	3.96	3.77	-20.3	-26.6	-38.9	1.22		
16.0	28.92	2551.3	2537.5	2519.2	4.18	3.92	3.66	-19.5	-27.9	-41.0	1.28		
16.5	27.76	2565.3	2551.4	2532.9	4.15	3.87	3.62	-18.1	-28.2	-42.0	1.29		
17.0	26.52	2578.7	2564.6	2545.9	4.09	3.85	3.59	-18.3	-28.5	-43.6	1.34		
17.5	25.26	2591.5	2577.3	2558.3	4.02	3.83	3.61	-17.9	-28.3	-44.8	1.30		
18.0	24.20	2603.6	2589.4	2570.2	3.94	3.79	3.58	-17.6	-28.5	-45.9	1.37		
18.5	22.92	2615.1	2600.8	2581.5	3.86	3.73	3.56	-16.9	-28.5	-46.0	1.39		
19.0	21.80	2626.1	2611.7	2592.3	3.80	3.66	3.52	-16.8	-28.4	-46.6	1.42		
19.5	20.88	2636.6	2622.2	2602.7	3.78	3.62	3.49	-16.5	-28.7	-46.7	1.36		
20.0	19.86	2646.6	2632.1	2612.5	3.79	3.59	3.45	-16.0	-27.5	-47.8	1.42		