

Voltage Controlled Oscillator

ROS-2490C+

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 | | | |
| 0.00 | 31.29 | 1999.8 | 1994.3 | 1990.3 | 7.31 | 7.05 | 6.71 | -36.87 | -31.29 | -60.11 | 1.12 | 1 | -79 |
| 0.25 | 30.12 | 2007.4 | 2002.2 | 1998.3 | 7.29 | 7.10 | 6.79 | -37.23 | -30.33 | -60.25 | 1.05 | 10 | -107 |
| 1.00 | 28.65 | 2029.5 | 2024.5 | 2020.7 | 7.19 | 7.09 | 6.82 | -38.29 | -29.25 | -62.21 | 0.88 | 100 | -129 |
| 1.50 | 29.17 | 2043.8 | 2038.8 | 2035.0 | 7.16 | 7.05 | 6.78 | -36.53 | -27.18 | -64.50 | 0.84 | 1000 | -148 |
| 2.00 | 30.19 | 2058.5 | 2053.4 | 2049.5 | 7.24 | 7.11 | 6.80 | -34.75 | -27.85 | -64.71 | 0.82 | | |
| 2.50 | 31.53 | 2073.8 | 2068.5 | 2064.5 | 7.29 | 7.20 | 6.90 | -33.05 | -26.41 | -65.96 | 0.81 | | |
| 3.00 | 33.01 | 2089.8 | 2084.2 | 2080.1 | 7.37 | 7.28 | 6.97 | -32.08 | -26.84 | -67.50 | 0.79 | | |
| 3.50 | 34.69 | 2106.6 | 2100.7 | 2096.3 | 7.35 | 7.29 | 7.02 | -31.47 | -25.25 | -67.86 | 0.76 | | |
| 4.00 | 36.15 | 2124.2 | 2118.1 | 2113.5 | 7.27 | 7.24 | 6.97 | -30.22 | -25.35 | -69.82 | 0.73 | | |
| 4.50 | 37.09 | 2142.4 | 2136.1 | 2131.4 | 7.20 | 7.12 | 6.82 | -29.45 | -24.45 | -70.04 | 0.68 | | |
| 5.00 | 38.04 | 2161.1 | 2154.7 | 2149.8 | 7.27 | 7.14 | 6.77 | -29.51 | -24.84 | -75.48 | 0.64 | | |
| 5.50 | 39.12 | 2180.4 | 2173.7 | 2168.7 | 7.36 | 7.22 | 6.79 | -29.05 | -24.73 | -66.73 | 0.58 | | |
| 6.00 | 39.84 | 2200.3 | 2193.3 | 2187.9 | 7.36 | 7.22 | 6.79 | -29.44 | -26.18 | -66.15 | 0.52 | | |
| 6.50 | 40.38 | 2220.5 | 2213.2 | 2207.6 | 7.34 | 7.21 | 6.76 | -30.66 | -26.42 | -69.07 | 0.44 | | |
| 7.00 | 40.53 | 2240.9 | 2233.4 | 2227.6 | 7.28 | 7.14 | 6.68 | -31.05 | -28.73 | -67.04 | 0.37 | | |
| 7.50 | 40.09 | 2261.3 | 2253.7 | 2247.7 | 7.29 | 7.06 | 6.55 | -31.76 | -29.57 | -62.38 | 0.30 | | |
| 8.00 | 40.03 | 2281.5 | 2273.7 | 2267.6 | 7.41 | 7.16 | 6.58 | -32.31 | -31.45 | -63.06 | 0.24 | | |
| 8.50 | 40.12 | 2301.8 | 2293.7 | 2287.4 | 7.48 | 7.26 | 6.67 | -33.39 | -33.53 | -58.17 | 0.19 | | |
| 9.00 | 40.15 | 2322.0 | 2313.8 | 2307.3 | 7.48 | 7.28 | 6.68 | -34.26 | -33.45 | -50.98 | 0.14 | | |
| 9.50 | 39.82 | 2342.3 | 2333.9 | 2327.2 | 7.41 | 7.24 | 6.65 | -34.51 | -36.19 | -49.70 | 0.09 | | |
| 10.00 | 38.72 | 2362.2 | 2353.8 | 2347.1 | 7.45 | 7.20 | 6.56 | -34.85 | -35.85 | -50.54 | 0.06 | | |
| 10.50 | 37.77 | 2381.5 | 2373.1 | 2366.5 | 7.64 | 7.32 | 6.62 | -34.76 | -37.61 | -51.50 | 0.03 | | |
| 11.00 | 37.66 | 2400.6 | 2392.0 | 2385.3 | 7.73 | 7.51 | 6.83 | -35.34 | -38.46 | -50.19 | 0.01 | | |
| 11.50 | 37.31 | 2419.7 | 2410.8 | 2403.8 | 7.68 | 7.53 | 6.91 | -35.70 | -39.56 | -49.58 | 0.00 | | |
| 12.00 | 35.88 | 2438.2 | 2429.5 | 2422.4 | 7.65 | 7.45 | 6.82 | -35.01 | -40.26 | -49.65 | 0.00 | | |
| 12.50 | 34.21 | 2456.0 | 2447.4 | 2440.5 | 7.72 | 7.47 | 6.82 | -34.68 | -41.42 | -52.30 | 0.03 | | |
| 13.00 | 32.57 | 2473.0 | 2464.5 | 2457.7 | 7.86 | 7.56 | 6.90 | -34.78 | -41.54 | -51.08 | 0.07 | | |
| 13.50 | 31.31 | 2489.3 | 2480.8 | 2474.0 | 7.95 | 7.69 | 7.05 | -34.26 | -43.03 | -50.76 | 0.12 | | |
| 14.00 | 29.98 | 2505.1 | 2496.5 | 2489.5 | 7.99 | 7.78 | 7.14 | -33.88 | -43.64 | -50.35 | 0.18 | | |
| 14.50 | 28.14 | 2520.0 | 2511.5 | 2504.5 | 7.93 | 7.77 | 7.19 | -33.69 | -43.67 | -50.48 | 0.23 | | |
| 15.00 | 25.77 | 2533.9 | 2525.5 | 2518.6 | 7.96 | 7.75 | 7.15 | -33.04 | -43.91 | -51.06 | 0.28 | | |
| 15.50 | 23.32 | 2546.7 | 2538.4 | 2531.6 | 8.03 | 7.78 | 7.17 | -32.05 | -44.96 | -50.54 | 0.31 | | |
| 16.00 | 21.04 | 2558.2 | 2550.1 | 2543.3 | 8.14 | 7.84 | 7.23 | -31.60 | -45.71 | -50.54 | 0.31 | | |
| 16.50 | 19.05 | 2568.8 | 2560.6 | 2553.9 | 8.20 | 7.94 | 7.31 | -31.30 | -45.90 | -50.57 | 0.29 | | |
| 17.00 | 17.14 | 2578.3 | 2570.1 | 2563.4 | 8.25 | 7.98 | 7.39 | -30.92 | -47.50 | -50.25 | 0.24 | | |
| 17.50 | 15.21 | 2586.8 | 2578.7 | 2571.9 | 8.29 | 8.01 | 7.42 | -30.46 | -47.66 | -51.28 | 0.18 | | |
| 18.00 | 15.21 | 2594.4 | 2586.3 | 2579.5 | 8.27 | 8.05 | 7.46 | -29.86 | -49.12 | -52.00 | 0.12 | | |

