

Voltage Controlled Oscillator

ROS-2490+

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 | 32.97 | 2227.6 | 2218.2 | 2210.9 | 7.44 | 7.64 | 7.69 | -22.67 | -29.66 | -43.33 | 1.37 | 1 | -80.0 |
| 0.50 | 30.02 | 2243.7 | 2234.7 | 2227.5 | 7.46 | 7.64 | 7.75 | -23.65 | -31.32 | -39.09 | 1.42 | 10 | -103.6 |
| 1.00 | 30.15 | 2259.1 | 2249.7 | 2242.6 | 7.59 | 7.75 | 7.84 | -22.25 | -28.50 | -35.33 | 1.39 | 100 | -124.4 |
| 1.50 | 31.28 | 2274.2 | 2264.8 | 2257.4 | 7.62 | 7.83 | 7.93 | -21.42 | -30.08 | -36.85 | 1.42 | 1000 | -144.1 |
| 2.00 | 32.55 | 2290.2 | 2280.4 | 2272.7 | 7.58 | 7.83 | 7.98 | -22.28 | -29.51 | -33.41 | 1.39 | | |
| 2.50 | 34.34 | 2306.6 | 2296.7 | 2288.7 | 7.67 | 7.88 | 7.99 | -22.32 | -30.34 | -34.58 | 1.37 | | |
| 3.00 | 35.17 | 2324.0 | 2313.8 | 2305.4 | 7.75 | 7.92 | 8.08 | -21.02 | -28.67 | -33.86 | 1.40 | | |
| 3.50 | 36.22 | 2342.1 | 2331.4 | 2322.8 | 7.83 | 8.04 | 8.13 | -20.57 | -29.24 | -31.81 | 1.31 | | |
| 4.00 | 36.73 | 2360.5 | 2349.5 | 2340.5 | 7.80 | 8.05 | 8.18 | -21.28 | -30.33 | -34.67 | 1.27 | | |
| 4.50 | 36.53 | 2379.1 | 2367.9 | 2358.6 | 7.81 | 8.08 | 8.21 | -20.99 | -30.14 | -34.64 | 1.20 | | |
| 5.00 | 36.25 | 2397.4 | 2386.2 | 2376.7 | 7.81 | 8.02 | 8.18 | -19.57 | -27.46 | -34.14 | 1.13 | | |
| 5.50 | 34.86 | 2415.7 | 2404.3 | 2394.4 | 7.87 | 8.01 | 8.11 | -19.41 | -28.66 | -35.81 | 1.00 | | |
| 6.00 | 33.94 | 2433.0 | 2421.7 | 2411.9 | 8.05 | 8.15 | 8.13 | -19.81 | -30.33 | -34.25 | 0.92 | | |
| 6.50 | 33.05 | 2450.3 | 2438.7 | 2428.7 | 8.32 | 8.36 | 8.30 | -20.08 | -29.70 | -35.13 | 0.85 | | |
| 7.00 | 32.48 | 2466.7 | 2455.2 | 2445.1 | 8.47 | 8.62 | 8.49 | -18.91 | -29.50 | -36.25 | 0.76 | | |
| 7.50 | 31.19 | 2482.9 | 2471.5 | 2461.0 | 8.51 | 8.66 | 8.63 | -19.29 | -31.30 | -32.97 | 0.72 | | |
| 8.00 | 30.27 | 2498.8 | 2487.1 | 2476.7 | 8.56 | 8.79 | 8.74 | -19.32 | -31.14 | -34.15 | 0.61 | | |
| 8.50 | 29.64 | 2513.8 | 2502.2 | 2491.8 | 8.89 | 8.89 | 8.82 | -18.97 | -30.08 | -31.63 | 0.54 | | |
| 9.00 | 29.18 | 2528.9 | 2517.0 | 2506.5 | 9.09 | 9.01 | 8.91 | -18.50 | -29.73 | -33.33 | 0.49 | | |
| 9.50 | 28.52 | 2543.4 | 2531.6 | 2520.8 | 9.15 | 9.27 | 9.07 | -18.21 | -30.73 | -30.23 | 0.42 | | |
| 10.00 | 28.61 | 2557.9 | 2545.9 | 2534.9 | 9.47 | 9.37 | 9.26 | -18.89 | -30.30 | -31.98 | 0.40 | | |
| 10.50 | 27.62 | 2572.3 | 2560.2 | 2548.7 | 9.42 | 9.58 | 9.36 | -18.45 | -28.84 | -29.31 | 0.33 | | |
| 11.00 | 26.88 | 2586.1 | 2574.0 | 2562.6 | 9.46 | 9.62 | 9.45 | -18.40 | -27.84 | -31.91 | 0.27 | | |
| 11.50 | 27.19 | 2599.8 | 2587.4 | 2576.0 | 9.68 | 9.57 | 9.54 | -18.25 | -27.23 | -30.60 | 0.21 | | |
| 12.00 | 27.19 | 2613.3 | 2601.0 | 2588.9 | 9.49 | 9.64 | 9.49 | -16.88 | -27.80 | -35.29 | 0.14 | | |