

Voltage Controlled Oscillator

ROS-3050-819+

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 | 143.53 | 2011.5 | 1978.4 | 1955.3 | 7.07 | 6.09 | 6.63 | -18.7 | -17.0 | -35.4 | 1.39 | 1 | -69 |
| 0.50 | 120.08 | 2078.7 | 2050.2 | 2032.1 | 7.19 | 6.54 | 6.78 | -20.2 | -18.6 | -31.2 | 2.25 | 10 | -94 |
| 1.00 | 109.90 | 2136.6 | 2110.2 | 2094.9 | 7.01 | 6.99 | 6.93 | -22.2 | -19.7 | -30.0 | 2.53 | 100 | -115 |
| 1.50 | 105.44 | 2190.0 | 2165.2 | 2151.9 | 7.34 | 7.16 | 6.85 | -22.7 | -22.5 | -31.9 | 2.59 | 1000 | -135 |
| 2.00 | 103.16 | 2241.5 | 2217.9 | 2205.6 | 7.24 | 7.40 | 6.81 | -24.6 | -24.1 | -37.5 | 2.54 | | |
| 2.50 | 103.26 | 2292.8 | 2269.5 | 2258.3 | 7.50 | 7.43 | 6.63 | -24.4 | -26.1 | -42.6 | 2.65 | | |
| 3.00 | 106.97 | 2344.1 | 2321.1 | 2311.0 | 7.46 | 7.56 | 6.74 | -24.7 | -26.4 | -50.0 | 2.37 | | |
| 3.50 | 108.43 | 2396.7 | 2374.6 | 2365.1 | 7.73 | 7.48 | 6.45 | -24.4 | -29.7 | -57.0 | 2.20 | | |
| 4.00 | 113.70 | 2451.5 | 2428.8 | 2419.6 | 7.53 | 7.53 | 6.46 | -24.5 | -33.0 | -70.2 | 1.83 | | |
| 4.50 | 116.62 | 2507.6 | 2485.6 | 2476.7 | 7.72 | 7.42 | 6.07 | -25.0 | -41.0 | -57.3 | 1.31 | | |
| 5.00 | 118.88 | 2565.5 | 2544.0 | 2534.6 | 7.58 | 7.34 | 6.03 | -24.5 | -41.3 | -53.8 | 0.83 | | |
| 5.50 | 117.32 | 2623.8 | 2603.4 | 2594.0 | 7.64 | 7.27 | 5.77 | -25.7 | -40.4 | -51.0 | 0.30 | | |
| 6.00 | 113.90 | 2681.8 | 2662.1 | 2652.4 | 7.56 | 7.12 | 5.66 | -25.2 | -40.0 | -50.4 | 0.09 | | |
| 6.50 | 114.15 | 2738.7 | 2719.0 | 2709.6 | 7.42 | 7.02 | 5.60 | -25.9 | -37.3 | -50.4 | 0.60 | | |
| 7.00 | 109.51 | 2794.7 | 2776.1 | 2766.9 | 7.30 | 6.76 | 5.29 | -24.9 | -34.9 | -48.0 | 0.75 | | |
| 7.50 | 108.86 | 2849.3 | 2830.8 | 2821.8 | 7.08 | 6.64 | 5.13 | -25.8 | -33.1 | -47.9 | 0.90 | | |
| 8.00 | 102.97 | 2902.7 | 2885.3 | 2874.4 | 7.06 | 6.39 | 4.88 | -24.4 | -33.1 | -47.2 | 0.78 | | |
| 8.50 | 102.14 | 2954.7 | 2936.7 | 2925.4 | 6.75 | 6.22 | 4.88 | -25.4 | -35.9 | -47.9 | 0.68 | | |
| 9.00 | 97.00 | 3005.3 | 2987.8 | 2976.2 | 6.69 | 6.00 | 4.60 | -24.5 | -38.7 | -49.1 | 0.51 | | |
| 9.50 | 97.61 | 3054.7 | 3036.3 | 3024.9 | 6.47 | 5.94 | 4.63 | -24.7 | -42.6 | -56.4 | 0.40 | | |
| 10.00 | 94.69 | 3102.4 | 3085.1 | 3073.4 | 6.12 | 5.53 | 4.31 | -24.0 | -43.7 | -52.3 | 0.25 | | |
| 10.50 | 96.20 | 3149.7 | 3132.5 | 3121.4 | 5.98 | 5.48 | 4.25 | -24.3 | -46.7 | -51.4 | 0.14 | | |
| 11.00 | 90.23 | 3197.4 | 3180.6 | 3168.0 | 5.64 | 5.05 | 3.96 | -23.1 | -47.5 | -50.6 | 0.02 | | |
| 11.50 | 91.68 | 3243.5 | 3225.7 | 3213.3 | 5.59 | 5.01 | 3.83 | -23.0 | -49.4 | -50.1 | 0.06 | | |
| 12.00 | 89.78 | 3289.6 | 3271.5 | 3259.0 | 5.16 | 4.67 | 3.67 | -22.6 | -54.4 | -53.7 | 0.08 | | |
| 12.50 | 91.79 | 3333.0 | 3316.4 | 3304.7 | 5.10 | 4.48 | 3.36 | -22.3 | -51.7 | -53.6 | 0.00 | | |
| 13.00 | 84.98 | 3378.3 | 3362.3 | 3348.2 | 4.87 | 4.41 | 3.26 | -22.2 | -48.3 | -53.5 | 0.04 | | |
| 13.50 | 84.64 | 3422.2 | 3404.8 | 3391.9 | 4.48 | 3.87 | 2.92 | -22.6 | -46.0 | -53.9 | 0.21 | | |
| 14.00 | 84.64 | 3464.1 | 3447.1 | 3434.7 | 4.35 | 3.85 | 2.66 | -22.6 | -44.7 | -56.5 | 0.47 | | |

