

# Voltage Controlled Oscillator

ROS-ED9545/1

## Typical Performance Data

| V<br>TUNE | TUNE<br>SENS<br>(MHz/V) | FREQUENCY<br>(MHz) |        |        | POWER OUTPUT<br>(dBm) |       |       | HARMONICS (dBc) |       |       | FREQ.<br>PUSH<br>(MHz/V) | FREQ<br>OFFSET<br>(KHz) | PHASE<br>NOISE<br>(dBc/Hz) |
|-----------|-------------------------|--------------------|--------|--------|-----------------------|-------|-------|-----------------|-------|-------|--------------------------|-------------------------|----------------------------|
|           |                         | -55°C              | +25°C  | +85°C  | -55°C                 | +25°C | +85°C | F2              | F3    | F4    |                          |                         |                            |
| 1.0       | 59.77                   | 2208.5             | 2178.6 | 2154.8 | 3.67                  | 2.37  | 1.71  | -18.7           | -37.8 | -28.5 | 2.07                     | 1                       | -72                        |
| 2.0       | 53.21                   | 2260.8             | 2231.8 | 2208.5 | 4.67                  | 2.96  | 1.79  | -19.8           | -37.2 | -31.7 | 2.19                     | 10                      | -96                        |
| 3.0       | 57.61                   | 2320.8             | 2289.4 | 2265.0 | 4.77                  | 3.75  | 2.76  | -22.4           | -35.3 | -31.7 | 2.58                     | 100                     | -116                       |
| 4.0       | 64.57                   | 2386.6             | 2354.0 | 2328.3 | 4.22                  | 3.44  | 2.95  | -25.4           | -33.9 | -28.0 | 2.82                     | 1000                    | -136                       |
| 5.0       | 66.69                   | 2453.0             | 2420.7 | 2394.4 | 5.26                  | 4.00  | 2.80  | -28.4           | -38.0 | -27.9 | 2.71                     |                         |                            |
| 6.0       | 64.83                   | 2516.9             | 2485.5 | 2459.3 | 5.09                  | 4.52  | 3.86  | -29.7           | -37.1 | -29.3 | 2.57                     |                         |                            |
| 7.0       | 60.46                   | 2578.1             | 2545.9 | 2520.1 | 4.84                  | 4.10  | 3.65  | -29.8           | -34.1 | -31.5 | 2.41                     |                         |                            |
| 8.0       | 57.03                   | 2633.5             | 2603.0 | 2576.2 | 5.54                  | 4.54  | 3.50  | -29.6           | -32.3 | -32.6 | 2.49                     |                         |                            |
| 9.0       | 50.23                   | 2683.4             | 2653.2 | 2627.2 | 5.21                  | 4.95  | 4.15  | -29.7           | -30.1 | -31.9 | 2.47                     |                         |                            |
| 10.0      | 45.87                   | 2728.3             | 2699.1 | 2672.9 | 4.97                  | 4.41  | 4.03  | -29.1           | -28.3 | -32.7 | 2.38                     |                         |                            |
| 11.0      | 41.73                   | 2770.3             | 2740.8 | 2714.8 | 5.17                  | 4.37  | 3.65  | -29.1           | -27.9 | -33.2 | 2.38                     |                         |                            |
| 12.0      | 38.87                   | 2808.4             | 2779.7 | 2753.0 | 5.42                  | 4.58  | 3.76  | -28.4           | -27.4 | -35.1 | 2.22                     |                         |                            |
| 13.0      | 35.22                   | 2843.5             | 2814.9 | 2788.6 | 5.03                  | 4.77  | 3.92  | -28.3           | -26.4 | -37.0 | 2.11                     |                         |                            |
| 14.0      | 32.48                   | 2876.1             | 2847.4 | 2820.7 | 4.35                  | 4.33  | 3.99  | -29.3           | -26.9 | -38.2 | 1.99                     |                         |                            |
| 15.0      | 29.73                   | 2905.7             | 2877.1 | 2850.1 | 4.06                  | 3.70  | 3.45  | -28.9           | -27.0 | -39.4 | 1.90                     |                         |                            |
| 16.0      | 26.93                   | 2932.7             | 2904.0 | 2877.2 | 4.07                  | 3.41  | 2.83  | -29.1           | -28.1 | -41.2 | 1.71                     |                         |                            |
| 17.0      | 24.41                   | 2957.5             | 2928.4 | 2901.3 | 4.08                  | 3.35  | 2.52  | -29.3           | -27.9 | -42.8 | 1.56                     |                         |                            |
| 18.0      | 22.50                   | 2979.6             | 2950.9 | 2923.2 | 4.16                  | 3.37  | 2.37  | -29.9           | -29.1 | -42.8 | 1.44                     |                         |                            |
| 19.0      | 20.04                   | 3000.0             | 2971.0 | 2943.2 | 3.77                  | 3.40  | 2.36  | -30.4           | -29.7 | -44.5 | 1.22                     |                         |                            |
| 20.0      | 18.45                   | 3018.5             | 2989.4 | 2961.8 | 3.55                  | 3.32  | 2.22  | -30.7           | -30.1 | -45.2 | 1.16                     |                         |                            |