

# Voltage Controlled Oscillator

ROS-ED11564/1

## 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    |                          |                         |                            |
| 0.5       | 77.14                   | 1929.1             | 1915.1 | 1910.3 | -1.98                 | -0.42 | 0.15  | -27.8           | -36.6 | -38.8 | 2.07                     | 1                       | -75                        |
| 1.0       | 67.42                   | 1964.5             | 1951.2 | 1946.3 | -2.08                 | -0.42 | 0.19  | -26.4           | -36.5 | -39.8 | 1.15                     | 10                      | -101                       |
| 1.5       | 63.09                   | 1996.6             | 1983.6 | 1978.8 | -1.98                 | -0.32 | 0.16  | -23.1           | -36.7 | -41.8 | 0.48                     | 100                     | -121                       |
| 2.0       | 60.95                   | 2027.1             | 2014.0 | 2009.5 | -1.97                 | -0.34 | 0.19  | -21.1           | -36.5 | -44.6 | 0.06                     | 1000                    | -141                       |
| 2.5       | 57.28                   | 2056.4             | 2043.1 | 2038.6 | -1.90                 | -0.28 | 0.28  | -19.4           | -35.3 | -46.7 | 0.41                     |                         |                            |
| 3.0       | 51.71                   | 2083.9             | 2070.1 | 2065.9 | -1.79                 | -0.10 | 0.43  | -17.9           | -34.3 | -44.8 | 0.29                     |                         |                            |
| 3.5       | 49.38                   | 2109.5             | 2094.1 | 2091.0 | -1.75                 | 0.01  | 0.62  | -16.8           | -32.3 | -44.1 | 0.23                     |                         |                            |
| 4.0       | 45.40                   | 2133.2             | 2117.7 | 2114.1 | -1.66                 | 0.03  | 0.64  | -15.7           | -30.4 | -44.7 | 1.22                     |                         |                            |
| 4.5       | 40.14                   | 2154.8             | 2139.6 | 2135.5 | -1.73                 | -0.05 | 0.52  | -16.1           | -29.6 | -47.7 | 2.34                     |                         |                            |
| 5.0       | 35.60                   | 2174.2             | 2158.6 | 2154.6 | -1.70                 | 0.01  | 0.57  | -17.2           | -30.6 | -49.2 | 3.30                     |                         |                            |
| 5.5       | 30.08                   | 2190.7             | 2175.0 | 2171.1 | -1.47                 | 0.17  | 0.71  | -18.0           | -31.6 | -53.3 | 3.86                     |                         |                            |
| 6.0       | 25.56                   | 2204.6             | 2189.1 | 2185.1 | -1.26                 | 0.36  | 0.86  | -18.8           | -33.2 | -53.1 | 4.08                     |                         |                            |