

# Voltage Controlled Oscillator

ROS-ED10867A/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       | 21.48                   | 2016.2             | 2009.8 | 2003.5 | 6.02                  | 6.82  | 6.82  | -29.8           | -44.0 | -40.3 | 1.05                     | 1                       | -83                        |
| 1.0       | 21.30                   | 2026.8             | 2020.4 | 2014.1 | 5.91                  | 6.69  | 6.73  | -29.2           | -43.3 | -37.7 | 1.08                     | 10                      | -108                       |
| 1.5       | 22.06                   | 2037.7             | 2031.2 | 2024.7 | 5.77                  | 6.56  | 6.62  | -28.9           | -43.9 | -36.5 | 1.11                     | 100                     | -128                       |
| 2.0       | 23.15                   | 2049.1             | 2042.5 | 2035.8 | 5.60                  | 6.40  | 6.51  | -28.7           | -43.9 | -34.5 | 1.13                     | 1000                    | -148                       |
| 2.5       | 24.32                   | 2061.1             | 2054.4 | 2047.4 | 5.41                  | 6.24  | 6.36  | -28.8           | -43.2 | -33.7 | 1.14                     |                         |                            |
| 3.0       | 25.25                   | 2073.7             | 2066.8 | 2059.5 | 5.22                  | 6.07  | 6.22  | -28.9           | -42.3 | -33.6 | 1.14                     |                         |                            |
| 3.5       | 25.56                   | 2086.6             | 2079.5 | 2072.0 | 5.04                  | 5.93  | 6.08  | -29.1           | -40.7 | -34.2 | 1.11                     |                         |                            |
| 4.0       | 25.46                   | 2099.6             | 2092.2 | 2084.6 | 4.86                  | 5.79  | 5.98  | -28.9           | -37.0 | -34.6 | 1.08                     |                         |                            |
| 4.5       | 25.00                   | 2112.3             | 2104.8 | 2097.1 | 4.73                  | 5.69  | 5.90  | -28.7           | -33.7 | -35.1 | 1.06                     |                         |                            |
| 5.0       | 24.42                   | 2124.8             | 2117.2 | 2109.3 | 4.63                  | 5.62  | 5.86  | -28.0           | -31.6 | -35.7 | 1.05                     |                         |                            |