

# Voltage Controlled Oscillator

ROS-ED10732A/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       | 117.57                  | 1003.2             | 984.4  | 966.0  | 6.55                  | 6.16  | 3.87  | -13.1           | -46.0 | -57.5 | 0.84                     | 1                       | -70                        |
| 2.0       | 116.48                  | 1117.9             | 1101.8 | 1086.0 | 5.84                  | 5.29  | 3.06  | -14.8           | -47.7 | -47.5 | 0.92                     | 10                      | -97                        |
| 3.0       | 120.10                  | 1237.7             | 1220.9 | 1203.9 | 5.30                  | 4.70  | 3.57  | -17.7           | -43.4 | -47.3 | 0.97                     | 100                     | -117                       |
| 4.0       | 124.43                  | 1362.4             | 1344.2 | 1324.5 | 4.02                  | 4.12  | 3.49  | -25.2           | -33.6 | -42.3 | 0.73                     | 1000                    | -137                       |
| 5.0       | 118.67                  | 1489.4             | 1468.6 | 1445.3 | 3.69                  | 4.07  | 3.60  | -37.7           | -27.5 | -39.6 | 0.52                     |                         |                            |
| 6.0       | 107.05                  | 1603.2             | 1583.3 | 1558.4 | 4.13                  | 4.40  | 3.94  | -45.0           | -26.3 | -35.3 | 0.20                     |                         |                            |
| 7.0       | 97.06                   | 1705.3             | 1685.8 | 1659.6 | 4.31                  | 4.73  | 4.12  | -36.4           | -26.3 | -33.8 | 0.04                     |                         |                            |
| 8.0       | 85.30                   | 1797.2             | 1776.5 | 1748.2 | 4.57                  | 4.96  | 4.32  | -34.3           | -26.8 | -34.6 | 0.32                     |                         |                            |
| 9.0       | 74.09                   | 1879.5             | 1855.8 | 1825.0 | 4.98                  | 5.08  | 4.54  | -33.6           | -27.6 | -35.8 | 0.96                     |                         |                            |
| 10.0      | 62.81                   | 1951.7             | 1923.8 | 1889.9 | 4.79                  | 5.05  | 4.54  | -33.6           | -29.8 | -35.6 | 1.94                     |                         |                            |
| 11.0      | 49.12                   | 2013.1             | 1979.7 | 1941.9 | 4.43                  | 4.91  | 4.22  | -32.6           | -30.4 | -39.2 | 3.22                     |                         |                            |
| 12.0      | 33.00                   | 2060.5             | 2021.1 | 1981.2 | 4.31                  | 4.64  | 3.71  | -32.5           | -30.0 | -43.6 | 5.06                     |                         |                            |