

# Voltage Controlled Oscillator

ROS-ED10768B/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       | 22.88                   | 1877.2             | 1870.9 | 1863.5 | 6.55                  | 7.48  | 7.72  | -42.6           | -39.7 | -34.2 | 0.98                     | 1                       | -82                        |
| 1.0       | 22.27                   | 1888.5             | 1882.1 | 1874.6 | 6.49                  | 7.42  | 7.63  | -39.4           | -40.0 | -32.4 | 1.04                     | 10                      | -106                       |
| 1.5       | 22.68                   | 1899.9             | 1893.3 | 1885.6 | 6.48                  | 7.41  | 7.60  | -36.6           | -40.3 | -31.3 | 1.10                     | 100                     | -126                       |
| 2.0       | 23.34                   | 1911.7             | 1904.8 | 1896.8 | 6.44                  | 7.39  | 7.57  | -33.7           | -41.1 | -29.2 | 1.16                     | 1000                    | -146                       |
| 2.5       | 23.94                   | 1923.8             | 1916.7 | 1908.4 | 6.42                  | 7.39  | 7.55  | -30.8           | -42.1 | -26.7 | 1.23                     |                         |                            |
| 3.0       | 23.93                   | 1936.2             | 1928.7 | 1920.2 | 6.38                  | 7.39  | 7.55  | -28.0           | -42.8 | -26.3 | 1.31                     |                         |                            |
| 3.5       | 23.12                   | 1948.3             | 1940.4 | 1931.9 | 6.41                  | 7.38  | 7.51  | -25.5           | -43.4 | -27.7 | 1.41                     |                         |                            |
| 4.0       | 22.03                   | 1959.8             | 1951.7 | 1943.1 | 6.40                  | 7.34  | 7.42  | -23.6           | -42.8 | -29.1 | 1.51                     |                         |                            |
| 4.5       | 21.65                   | 1970.8             | 1962.6 | 1954.0 | 6.27                  | 7.16  | 7.24  | -22.3           | -41.3 | -28.9 | 1.64                     |                         |                            |
| 5.0       | 22.11                   | 1981.5             | 1973.5 | 1964.9 | 5.98                  | 6.88  | 6.98  | -21.5           | -39.7 | -28.1 | 1.80                     |                         |                            |
| 5.5       | 22.58                   | 1992.5             | 1984.7 | 1975.8 | 5.56                  | 6.50  | 6.65  | -21.4           | -39.0 | -27.3 | 1.95                     |                         |                            |
| 6.0       | 22.50                   | 2003.7             | 1996.0 | 1986.9 | 5.18                  | 6.14  | 6.34  | -21.4           | -38.4 | -27.0 | 2.09                     |                         |                            |