

# Voltage Controlled Oscillator

ROS-EDR4692

## 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       | 58.90                   | 1564.7             | 1550.4 | 1540.9 | 7.95                  | 7.54  | 6.29  | -22.8           | -48.3 | -59.0 | 0.45                     | 1                       | -71                        |
| 2.0       | 45.20                   | 1609.0             | 1595.6 | 1586.8 | 7.80                  | 7.17  | 6.17  | -23.9           | -54.4 | -46.3 | 0.64                     | 10                      | -96                        |
| 3.0       | 41.20                   | 1653.3             | 1636.7 | 1627.5 | 7.50                  | 6.89  | 5.69  | -26.4           | -55.9 | -44.0 | 0.83                     | 100                     | -119                       |
| 4.0       | 39.20                   | 1686.7             | 1676.0 | 1665.1 | 7.97                  | 6.78  | 6.16  | -27.8           | -54.8 | -44.8 | 0.90                     | 1000                    | -141                       |
| 5.0       | 37.40                   | 1727.6             | 1713.3 | 1699.7 | 7.62                  | 7.00  | 6.07  | -32.2           | -57.2 | -48.2 | 0.90                     |                         |                            |
| 6.0       | 36.00                   | 1763.1             | 1749.4 | 1739.2 | 7.93                  | 7.34  | 6.13  | -34.2           | -60.3 | -51.5 | 0.90                     |                         |                            |
| 7.0       | 36.70                   | 1801.1             | 1786.1 | 1774.5 | 7.90                  | 7.52  | 6.45  | -35.8           | -66.4 | -54.9 | 0.96                     |                         |                            |
| 8.0       | 39.30                   | 1840.3             | 1825.4 | 1814.1 | 8.03                  | 7.53  | 6.50  | -37.1           | -60.8 | -56.9 | 1.02                     |                         |                            |
| 9.0       | 42.60                   | 1884.4             | 1868.0 | 1855.6 | 8.18                  | 7.51  | 6.49  | -36.6           | -53.2 | -50.0 | 1.09                     |                         |                            |
| 10.0      | 45.40                   | 1925.0             | 1913.4 | 1898.1 | 8.24                  | 7.61  | 6.92  | -37.2           | -48.9 | -43.9 | 1.02                     |                         |                            |
| 11.0      | 45.40                   | 1973.1             | 1958.9 | 1946.5 | 8.43                  | 7.89  | 6.60  | -36.8           | -45.3 | -39.7 | 0.90                     |                         |                            |
| 12.0      | 46.40                   | 2022.0             | 2005.3 | 1991.1 | 8.27                  | 8.05  | 6.97  | -37.4           | -42.6 | -40.0 | 0.77                     |                         |                            |
| 13.0      | 48.70                   | 2070.1             | 2054.0 | 2042.4 | 8.50                  | 8.08  | 6.87  | -39.4           | -41.1 | -43.0 | 0.77                     |                         |                            |
| 14.0      | 48.40                   | 2117.1             | 2102.3 | 2088.9 | 8.58                  | 8.17  | 6.97  | -38.1           | -38.2 | -42.7 | 0.51                     |                         |                            |
| 15.0      | 44.20                   | 2164.7             | 2146.5 | 2133.5 | 8.61                  | 8.26  | 6.93  | -38.7           | -36.7 | -43.1 | 0.38                     |                         |                            |
| 16.0      | 40.00                   | 2202.8             | 2186.5 | 2176.9 | 8.59                  | 8.26  | 7.11  | -40.0           | -37.8 | -45.5 | 0.26                     |                         |                            |
| 17.0      | 37.70                   | 2242.8             | 2224.2 | 2212.0 | 8.61                  | 8.22  | 6.97  | -40.6           | -39.4 | -43.9 | 0.13                     |                         |                            |
| 18.0      | 34.60                   | 2279.0             | 2258.8 | 2249.2 | 8.82                  | 8.17  | 6.83  | -42.5           | -43.0 | -46.5 | 0.13                     |                         |                            |
| 19.0      | 30.70                   | 2306.1             | 2289.5 | 2281.0 | 8.56                  | 8.06  | 7.02  | -42.6           | -45.0 | -43.7 | 0.06                     |                         |                            |
| 20.0      | 28.80                   | 2337.2             | 2318.3 | 2307.2 | 8.35                  | 7.93  | 6.87  | -44.6           | -47.0 | -45.9 | 0.06                     |                         |                            |