

# Voltage Controlled Oscillator

ROS-EDR4422

## 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       | 7.60                    | 1762.3             | 1754.6 | 1746.2 | 2.42                  | 2.45  | 2.35  | -24.1           | -17.2 | -23.9 | 0.19                     | 1                       | -77                        |
| 2.0       | 5.90                    | 1768.3             | 1760.5 | 1752.1 | 2.30                  | 2.43  | 2.36  | -23.5           | -17.4 | -23.4 | 0.26                     | 10                      | -102                       |
| 3.0       | 5.50                    | 1773.6             | 1766.0 | 1757.4 | 2.30                  | 2.37  | 2.39  | -23.1           | -17.3 | -22.6 | 0.32                     | 100                     | -122                       |
| 4.0       | 5.40                    | 1778.8             | 1771.3 | 1762.8 | 2.64                  | 2.27  | 2.39  | -22.4           | -17.2 | -22.4 | 0.32                     | 1000                    | -140                       |
| 5.0       | 5.50                    | 1784.2             | 1776.8 | 1768.4 | 2.88                  | 2.37  | 2.36  | -22.3           | -17.5 | -22.8 | 0.32                     |                         |                            |
| 6.0       | 5.80                    | 1790.1             | 1782.6 | 1774.3 | 2.95                  | 2.77  | 2.27  | -22.2           | -18.0 | -22.5 | 0.32                     |                         |                            |
| 7.0       | 6.40                    | 1796.5             | 1789.0 | 1780.8 | 3.03                  | 2.92  | 2.44  | -22.0           | -18.5 | -21.7 | 0.38                     |                         |                            |
| 8.0       | 7.20                    | 1803.9             | 1796.2 | 1787.8 | 3.09                  | 3.02  | 2.79  | -21.6           | -18.8 | -22.1 | 0.38                     |                         |                            |
| 9.0       | 8.10                    | 1812.3             | 1804.4 | 1795.8 | 3.10                  | 3.12  | 2.94  | -20.9           | -19.2 | -21.6 | 0.38                     |                         |                            |
| 10.0      | 9.20                    | 1821.5             | 1813.5 | 1804.7 | 3.44                  | 3.12  | 3.05  | -20.1           | -19.7 | -20.6 | 0.51                     |                         |                            |
| 11.0      | 9.60                    | 1831.1             | 1823.1 | 1814.3 | 3.82                  | 3.50  | 3.07  | -20.1           | -20.9 | -21.1 | 0.45                     |                         |                            |
| 12.0      | 9.40                    | 1840.8             | 1832.5 | 1823.9 | 4.14                  | 3.91  | 3.46  | -20.2           | -21.5 | -21.7 | 0.51                     |                         |                            |
| 13.0      | 9.20                    | 1850.1             | 1841.7 | 1832.9 | 4.36                  | 4.25  | 3.88  | -20.5           | -22.2 | -22.0 | 0.64                     |                         |                            |
| 14.0      | 8.50                    | 1859.0             | 1850.2 | 1841.2 | 4.20                  | 4.49  | 4.22  | -20.8           | -22.8 | -23.3 | 0.77                     |                         |                            |
| 15.0      | 8.00                    | 1867.7             | 1858.2 | 1848.9 | 4.70                  | 4.35  | 4.54  | -20.5           | -22.8 | -24.0 | 1.02                     |                         |                            |