

# Voltage Controlled Oscillator

ROS-EDR6633/1

## 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    |                          |                         |                            |
| 0.3       | 12.58                   | 507.1              | 504.0 | 501.6 | -0.48                 | 0.22  | 0.13  | -20.9           | -33.1 | -41.1 | 0.04                     | 1                       | -90                        |
| 0.5       | 12.00                   | 510.2              | 507.1 | 504.8 | -0.48                 | 0.22  | 0.18  | -21.0           | -33.0 | -41.0 | 0.09                     | 10                      | -114                       |
| 0.8       | 11.74                   | 513.2              | 510.1 | 507.7 | -0.45                 | 0.28  | 0.21  | -21.1           | -33.0 | -40.7 | 0.14                     | 100                     | -134                       |
| 1.0       | 11.62                   | 516.2              | 513.0 | 510.7 | -0.40                 | 0.32  | 0.25  | -21.1           | -33.0 | -40.7 | 0.17                     | 1000                    | -154                       |
| 1.3       | 11.59                   | 519.2              | 515.9 | 513.5 | -0.37                 | 0.36  | 0.28  | -21.1           | -32.8 | -40.6 | 0.20                     |                         |                            |
| 1.5       | 11.65                   | 522.1              | 518.8 | 516.4 | -0.34                 | 0.38  | 0.32  | -21.2           | -32.6 | -40.7 | 0.23                     |                         |                            |
| 1.8       | 11.74                   | 525.1              | 521.8 | 519.3 | -0.31                 | 0.42  | 0.34  | -21.2           | -32.4 | -40.8 | 0.24                     |                         |                            |
| 2.0       | 11.84                   | 528.1              | 524.7 | 522.2 | -0.27                 | 0.43  | 0.36  | -21.3           | -32.2 | -41.1 | 0.24                     |                         |                            |
| 2.3       | 11.97                   | 531.1              | 527.6 | 525.1 | -0.24                 | 0.47  | 0.38  | -21.4           | -31.9 | -41.1 | 0.24                     |                         |                            |
| 2.5       | 12.00                   | 534.2              | 530.6 | 528.1 | -0.22                 | 0.47  | 0.39  | -21.4           | -31.7 | -41.3 | 0.22                     |                         |                            |
| 2.8       | 12.07                   | 537.2              | 533.6 | 531.1 | -0.20                 | 0.48  | 0.40  | -21.5           | -31.4 | -41.2 | 0.19                     |                         |                            |
| 3.0       | 12.07                   | 540.3              | 536.7 | 534.1 | -0.20                 | 0.47  | 0.40  | -21.5           | -31.2 | -41.3 | 0.14                     |                         |                            |
| 3.3       | 12.03                   | 543.3              | 539.7 | 537.2 | -0.20                 | 0.46  | 0.40  | -21.6           | -31.0 | -41.2 | 0.08                     |                         |                            |
| 3.5       | 11.96                   | 546.3              | 542.7 | 540.2 | -0.21                 | 0.43  | 0.39  | -21.6           | -30.7 | -40.8 | 0.01                     |                         |                            |
| 3.8       | 11.84                   | 549.3              | 545.7 | 543.2 | -0.22                 | 0.42  | 0.38  | -21.8           | -30.6 | -40.7 | -0.07                    |                         |                            |
| 4.0       | 11.68                   | 552.2              | 548.6 | 546.1 | -0.27                 | 0.38  | 0.35  | -21.8           | -30.3 | -40.4 | -0.13                    |                         |                            |
| 4.3       | 11.50                   | 555.1              | 551.5 | 549.1 | -0.33                 | 0.33  | 0.33  | -21.8           | -30.2 | -39.9 | -0.20                    |                         |                            |
| 4.5       | 11.28                   | 557.9              | 554.4 | 551.9 | -0.40                 | 0.24  | 0.30  | -21.8           | -30.0 | -39.4 | -0.25                    |                         |                            |
| 4.8       | 11.06                   | 560.7              | 557.2 | 554.8 | -0.48                 | 0.17  | 0.25  | -21.9           | -29.9 | -39.0 | -0.29                    |                         |                            |
| 5.0       | 10.85                   | 563.5              | 560.0 | 557.5 | -0.57                 | 0.09  | 0.20  | -21.9           | -29.8 | -38.5 | -0.32                    |                         |                            |
| 5.3       | 10.57                   | 566.1              | 562.7 | 560.2 | -0.67                 | -0.01 | 0.15  | -22.0           | -29.7 | -38.0 | -0.35                    |                         |                            |
| 5.5       | 10.37                   | 568.8              | 565.4 | 562.9 | -0.76                 | -0.10 | 0.09  | -22.0           | -29.7 | -37.6 | -0.36                    |                         |                            |
| 5.8       | 10.14                   | 571.4              | 568.0 | 565.4 | -0.84                 | -0.16 | 0.05  | -22.2           | -29.6 | -37.2 | -0.36                    |                         |                            |
| 6.0       | 9.91                    | 573.9              | 570.5 | 567.9 | -0.93                 | -0.25 | 0.01  | -22.2           | -29.6 | -36.8 | -0.36                    |                         |                            |
| 6.3       | 9.68                    | 576.4              | 573.0 | 570.4 | -1.00                 | -0.31 | -0.05 | -22.3           | -29.5 | -36.5 | -0.35                    |                         |                            |
| 6.5       | 9.46                    | 578.8              | 575.4 | 572.9 | -1.07                 | -0.37 | -0.09 | -22.4           | -29.4 | -36.2 | -0.34                    |                         |                            |
| 6.8       | 9.26                    | 581.2              | 577.8 | 575.2 | -1.16                 | -0.44 | -0.14 | -22.5           | -29.2 | -35.9 | -0.33                    |                         |                            |
| 7.0       | 9.26                    | 583.5              | 580.1 | 577.5 | -1.24                 | -0.50 | -0.19 | -22.5           | -29.2 | -35.6 | -0.32                    |                         |                            |