

# Voltage Controlled Oscillator

ROS-EDR4469

## 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       | 29.30                   | 631.9              | 628.4 | 625.3 | 16.53                 | 15.02 | 13.47 | -6.7            | -16.2 | -22.4 | -1.47                    | 1                       | -81                        |
| 2.0       | 29.40                   | 663.1              | 657.9 | 654.3 | 14.63                 | 13.78 | 12.60 | -7.0            | -14.8 | -18.5 | -1.15                    | 10                      | -110                       |
| 3.0       | 29.40                   | 690.7              | 687.2 | 681.9 | 13.95                 | 12.88 | 12.29 | -7.4            | -15.2 | -15.9 | -0.83                    | 100                     | -129                       |
| 4.0       | 26.00                   | 718.3              | 713.2 | 708.7 | 13.53                 | 12.98 | 12.68 | -7.8            | -17.9 | -15.0 | -0.58                    | 1000                    | -148                       |
| 5.0       | 25.90                   | 744.3              | 739.1 | 731.6 | 13.79                 | 13.45 | 13.15 | -7.8            | -20.5 | -15.1 | -0.64                    |                         |                            |
| 6.0       | 21.10                   | 765.1              | 760.2 | 753.8 | 14.43                 | 14.01 | 13.72 | -8.1            | -25.1 | -15.6 | -0.64                    |                         |                            |
| 7.0       | 18.60                   | 787.7              | 778.8 | 771.5 | 15.00                 | 14.44 | 14.25 | -8.1            | -28.0 | -16.2 | -0.51                    |                         |                            |
| 8.0       | 19.30                   | 803.8              | 798.1 | 789.4 | 15.08                 | 14.80 | 14.56 | -8.1            | -34.1 | -16.4 | -0.32                    |                         |                            |
| 9.0       | 14.10                   | 818.3              | 812.2 | 803.3 | 15.35                 | 15.00 | 14.68 | -8.3            | -38.1 | -16.4 | -0.13                    |                         |                            |
| 10.0      | 12.30                   | 833.2              | 824.5 | 814.3 | 15.67                 | 15.21 | 14.80 | -8.3            | -32.5 | -16.6 | 0.19                     |                         |                            |
| 11.0      | 9.40                    | 844.1              | 833.9 | 821.6 | 15.99                 | 15.46 | 15.00 | -8.1            | -25.8 | -17.6 | 0.51                     |                         |                            |
| 12.0      | 14.00                   | 854.5              | 847.9 | 825.7 | 16.18                 | 15.66 | 13.76 | -7.8            | -26.3 | -18.2 | 0.83                     |                         |                            |