

# Voltage Controlled Oscillator

ROS-EDR3945/1

## 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       | 8.20                    | 716.9              | 713.2 | 706.8 | 4.64                  | 5.03  | 4.83  | -39.2           | -36.6 | -33.1 | 0.19                     | 1                       | -56                        |
| 1.0       | 7.80                    | 721.5              | 717.1 | 710.5 | 4.84                  | 5.23  | 4.96  | -40.4           | -35.8 | -32.1 | 0.13                     | 10                      | -85                        |
| 1.5       | 7.90                    | 726.1              | 721.1 | 714.1 | 5.01                  | 5.37  | 5.17  | -41.9           | -34.7 | -32.6 |                          | 100                     | -114                       |
| 2.0       | 8.60                    | 730.9              | 725.4 | 718.0 | 5.18                  | 5.50  | 5.32  | -44.0           | -33.5 | -32.2 |                          | 1000                    | -138                       |
| 2.5       | 9.10                    | 735.9              | 729.9 | 722.1 | 5.35                  | 5.63  | 5.45  | -46.8           | -32.7 | -32.5 |                          |                         |                            |
| 3.0       | 9.30                    | 741.4              | 734.6 | 726.6 | 5.48                  | 5.75  | 5.56  | -47.5           | -32.0 | -32.3 | 0.19                     |                         |                            |
| 3.5       | 9.90                    | 747.1              | 739.5 | 731.3 | 5.54                  | 5.87  | 5.66  | -49.2           | -30.9 | -32.7 | 0.19                     |                         |                            |
| 4.0       | 10.10                   | 752.5              | 744.6 | 735.9 | 5.77                  | 5.90  | 5.78  | -54.6           | -30.8 | -32.3 | 0.32                     |                         |                            |
| 4.5       | 10.00                   | 757.9              | 749.6 | 740.5 | 5.96                  | 6.03  | 5.86  | -56.6           | -30.2 | -32.7 | 0.32                     |                         |                            |
| 5.0       | 9.20                    | 763.1              | 754.2 | 745.3 | 6.13                  | 6.19  | 5.88  | -59.6           | -30.1 | -33.1 | 0.32                     |                         |                            |
| 5.5       | 8.70                    | 768.0              | 758.5 | 749.6 | 6.29                  | 6.32  | 6.00  | -63.7           | -30.0 | -34.0 | 0.45                     |                         |                            |
| 6.0       | 8.30                    | 772.7              | 762.7 | 753.6 | 6.44                  | 6.43  | 6.13  | -61.5           | -29.3 | -34.3 | 0.45                     |                         |                            |
| 6.5       | 7.80                    | 777.0              | 766.6 | 757.3 | 6.57                  | 6.53  | 6.24  | -55.2           | -29.1 | -34.1 | 0.51                     |                         |                            |
| 7.0       | 7.30                    | 781.1              | 770.2 | 760.8 | 6.68                  | 6.63  | 6.33  | -53.0           | -29.2 | -34.2 | 0.51                     |                         |                            |
| 7.5       | 6.90                    | 784.9              | 773.7 | 764.2 | 6.76                  | 6.72  | 6.42  | -52.8           | -29.1 | -34.8 | 0.58                     |                         |                            |
| 8.0       | 6.50                    | 788.8              | 777.0 | 767.4 | 6.78                  | 6.80  | 6.49  | -52.5           | -28.8 | -35.7 | 0.58                     |                         |                            |