

# Voltage Controlled Oscillator

UOS-EDR5415

## 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       | 29.32                   | 263.0              | 259.6 | 257.9 | 0.16                  | 1.17  | 0.59  | -10.4           | -27.0 | -43.4 | -0.37                    | 1                       | -88                        |
| 0.5       | 28.30                   | 269.9              | 266.7 | 265.0 | 0.07                  | 1.06  | 0.52  | -10.1           | -27.6 | -44.4 | -0.32                    | 10                      | -108                       |
| 0.7       | 25.68                   | 274.6              | 271.7 | 270.1 | 0.02                  | 0.96  | 0.47  | -10.3           | -28.4 | -45.1 | -0.25                    | 100                     | -129                       |
| 1.0       | 22.27                   | 281.2              | 278.5 | 277.0 | -0.07                 | 0.87  | 0.41  | -10.6           | -29.4 | -46.4 | -0.19                    | 1000                    | -150                       |
| 1.3       | 20.57                   | 286.4              | 283.6 | 282.1 | -0.16                 | 0.80  | 0.36  | -11.0           | -30.0 | -47.6 | -0.16                    |                         |                            |
| 1.5       | 19.30                   | 291.2              | 288.5 | 287.0 | -0.21                 | 0.73  | 0.32  | -11.3           | -31.1 | -48.2 | -0.14                    |                         |                            |
| 1.8       | 18.32                   | 295.8              | 293.0 | 291.5 | -0.28                 | 0.66  | 0.27  | -11.2           | -32.2 | -49.2 | -0.13                    |                         |                            |
| 2.0       | 17.54                   | 300.2              | 297.4 | 295.9 | -0.33                 | 0.59  | 0.22  | -11.3           | -32.8 | -50.1 | -0.12                    |                         |                            |
| 2.3       | 16.83                   | 304.4              | 301.6 | 300.2 | -0.40                 | 0.52  | 0.16  | -11.6           | -33.9 | -50.0 | -0.12                    |                         |                            |
| 2.5       | 16.24                   | 308.4              | 305.7 | 304.2 | -0.44                 | 0.45  | 0.09  | -11.7           | -35.1 | -50.3 | -0.12                    |                         |                            |
| 2.8       | 15.59                   | 313.1              | 310.4 | 308.9 | -0.52                 | 0.35  | -0.01 | -11.7           | -36.0 | -49.8 | -0.12                    |                         |                            |
| 3.0       | 15.18                   | 316.1              | 313.4 | 312.0 | -0.57                 | 0.29  | -0.07 | -11.7           | -36.3 | -48.9 | -0.13                    |                         |                            |
| 3.3       | 14.64                   | 319.7              | 317.1 | 315.7 | -0.62                 | 0.21  | -0.15 | -11.6           | -37.1 | -48.0 | -0.13                    |                         |                            |
| 3.5       | 14.03                   | 323.3              | 320.6 | 319.3 | -0.71                 | 0.12  | -0.23 | -11.7           | -37.5 | -47.1 | -0.14                    |                         |                            |
| 3.8       | 13.70                   | 326.6              | 324.0 | 322.7 | -0.78                 | 0.03  | -0.31 | -11.9           | -38.1 | -46.0 | -0.14                    |                         |                            |
| 4.0       | 13.20                   | 329.9              | 327.3 | 326.0 | -0.86                 | -0.05 | -0.39 | -12.5           | -38.3 | -45.3 | -0.14                    |                         |                            |
| 4.3       | 12.66                   | 333.0              | 330.5 | 329.2 | -0.92                 | -0.13 | -0.47 | -12.6           | -38.7 | -45.2 | -0.14                    |                         |                            |
| 4.5       | 12.12                   | 336.0              | 333.5 | 332.2 | -1.01                 | -0.21 | -0.52 | -12.7           | -39.1 | -44.9 | -0.14                    |                         |                            |
| 4.8       | 11.56                   | 338.9              | 336.4 | 335.1 | -1.09                 | -0.28 | -0.58 | -12.8           | -39.7 | -44.7 | -0.14                    |                         |                            |
| 5.0       | 11.00                   | 341.6              | 339.1 | 337.8 | -1.13                 | -0.34 | -0.64 | -12.9           | -40.5 | -44.3 | -0.14                    |                         |                            |