

# Voltage Controlled Oscillator

ROS-ED10089A/2

## 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     |                          |                         |                            |
| 0.0       | 14.74                   | 1006.4             | 1001.7 | 996.2  | 1.33                  | 1.81  | 1.83  | -34.11          | -16.39 | -22.95 | 0.04                     | 1                       | -89                        |
| 1.0       | 11.96                   | 1019.1             | 1014.6 | 1009.3 | 1.34                  | 1.77  | 1.85  | -34.64          | -15.70 | -24.63 | 0.09                     | 10                      | -114                       |
| 2.0       | 12.03                   | 1031.1             | 1026.6 | 1021.2 | 1.44                  | 1.84  | 1.82  | -35.54          | -15.35 | -26.71 | 0.08                     | 100                     | -134                       |
| 3.0       | 12.14                   | 1043.3             | 1038.7 | 1033.2 | 1.50                  | 1.92  | 1.87  | -36.96          | -15.23 | -28.34 | 0.04                     | 1000                    | -154                       |
| 4.0       | 11.55                   | 1055.2             | 1050.6 | 1045.2 | 1.34                  | 1.74  | 1.70  | -38.43          | -14.12 | -29.80 | 0.02                     |                         |                            |
| 5.0       | 10.51                   | 1066.3             | 1061.7 | 1056.3 | 1.55                  | 1.96  | 1.93  | -38.66          | -13.82 | -31.22 | 0.06                     |                         |                            |
| 6.0       | 9.39                    | 1076.2             | 1071.7 | 1066.3 | 1.52                  | 1.94  | 1.93  | -38.00          | -12.89 | -32.49 | 0.07                     |                         |                            |
| 7.0       | 8.45                    | 1085.1             | 1080.6 | 1075.2 | 1.64                  | 2.05  | 2.09  | -36.63          | -12.71 | -33.38 | 0.05                     |                         |                            |
| 8.0       | 7.65                    | 1093.2             | 1088.7 | 1083.3 | 1.54                  | 1.95  | 1.94  | -35.03          | -12.09 | -34.41 | 0.04                     |                         |                            |
| 9.0       | 7.00                    | 1100.6             | 1096.1 | 1090.6 | 1.52                  | 1.96  | 1.95  | -33.70          | -11.47 | -35.17 | 0.02                     |                         |                            |
| 10.0      | 6.46                    | 1107.4             | 1102.8 | 1097.3 | 1.54                  | 1.96  | 1.99  | -32.56          | -11.43 | -35.94 | 0.01                     |                         |                            |
| 11.0      | 5.96                    | 1113.7             | 1109.1 | 1103.5 | 1.43                  | 1.86  | 1.88  | -31.64          | -11.11 | -36.87 | 0.00                     |                         |                            |
| 12.0      | 5.52                    | 1119.4             | 1114.8 | 1109.3 | 1.56                  | 1.98  | 1.99  | -30.79          | -10.72 | -37.32 | 0.01                     |                         |                            |
| 13.0      | 5.13                    | 1124.8             | 1120.2 | 1114.6 | 1.57                  | 2.01  | 2.01  | -29.95          | -10.55 | -37.72 | 0.02                     |                         |                            |
| 14.0      | 4.73                    | 1129.8             | 1125.2 | 1119.5 | 1.58                  | 2.03  | 2.03  | -29.25          | -10.33 | -38.18 | 0.04                     |                         |                            |