

# Voltage Controlled Oscillator

ROS-ED12722/1

## 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    |                          |                         |                            |
| 0.0       | 43.74                   | 1081.2             | 1074.0 | 1068.3 | 0.37                  | 0.31  | -0.05 | -33.0           | -26.5 | -30.5 | 0.33                     | 1                       | -81                        |
| 0.5       | 40.31                   | 1101.9             | 1094.6 | 1089.1 | -0.33                 | 0.21  | 0.13  | -35.0           | -25.8 | -29.6 | 0.17                     | 10                      | -106                       |
| 1.0       | 42.05                   | 1122.7             | 1115.1 | 1109.3 | -0.32                 | 0.21  | 0.52  | -33.4           | -23.9 | -27.2 | 0.05                     | 100                     | -126                       |
| 1.5       | 47.10                   | 1145.5             | 1137.3 | 1130.9 | 0.17                  | 0.08  | -0.11 | -30.4           | -22.7 | -26.0 | 0.09                     | 1000                    | -146                       |
| 2.0       | 55.38                   | 1172.0             | 1162.6 | 1155.4 | -0.71                 | -0.02 | 0.17  | -28.5           | -22.3 | -25.6 | 0.21                     |                         |                            |
| 2.5       | 62.67                   | 1202.6             | 1192.1 | 1184.1 | 0.09                  | -0.01 | 0.04  | -25.9           | -20.2 | -24.2 | 0.01                     |                         |                            |
| 3.0       | 66.38                   | 1235.8             | 1224.5 | 1215.8 | -0.95                 | -0.11 | 0.07  | -24.4           | -19.9 | -24.5 | 0.84                     |                         |                            |
| 3.5       | 63.77                   | 1268.9             | 1257.5 | 1248.8 | 0.11                  | -0.12 | -0.23 | -22.7           | -18.3 | -22.9 | 2.25                     |                         |                            |
| 4.0       | 56.76                   | 1299.0             | 1287.8 | 1279.4 | -0.86                 | -0.17 | 0.04  | -23.8           | -18.1 | -22.4 | 3.71                     |                         |                            |
| 4.5       | 46.00                   | 1324.2             | 1313.6 | 1305.6 | 0.02                  | -0.13 | -0.06 | -25.0           | -16.6 | -21.2 | 4.49                     |                         |                            |
| 5.0       | 35.36                   | 1344.4             | 1333.9 | 1325.8 | -0.21                 | -0.19 | -0.64 | -27.5           | -17.1 | -23.2 | 4.36                     |                         |                            |
| 5.5       | 25.65                   | 1359.8             | 1349.2 | 1340.1 | -0.75                 | -0.17 | -0.22 | -28.7           | -17.4 | -24.5 | 3.46                     |                         |                            |
| 6.0       | 18.11                   | 1371.0             | 1360.2 | 1349.4 | -0.55                 | -0.15 | 0.04  | -29.5           | -16.4 | -25.2 | 2.32                     |                         |                            |