

# Voltage Controlled Oscillator

ROS-EDR4419

## 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       | 12.00                   | 1333.6             | 1324.7 | 1315.8 | 2.34                  | 1.68  | 1.24  | -33.0           | -33.1 | -38.1 | 0.06                     | 1                       | -78                        |
| 2.0       | 9.40                    | 1342.7             | 1334.1 | 1325.4 | 2.52                  | 1.66  | 1.26  | -32.7           | -32.7 | -38.5 | 0.19                     | 10                      | -104                       |
| 3.0       | 9.00                    | 1351.0             | 1343.1 | 1333.3 | 2.60                  | 1.49  | 1.56  | -31.4           | -32.4 | -38.6 | 0.06                     | 100                     | -129                       |
| 4.0       | 7.70                    | 1359.5             | 1350.9 | 1341.1 | 2.48                  | 1.80  | 1.75  | -31.9           | -32.2 | -38.9 |                          | 1000                    | -146                       |
| 5.0       | 7.90                    | 1367.7             | 1358.7 | 1348.9 | 2.57                  | 2.02  | 1.90  | -31.7           | -32.0 | -39.0 | 0.06                     |                         |                            |
| 6.0       | 8.30                    | 1376.0             | 1367.0 | 1357.3 | 2.83                  | 2.20  | 1.94  | -31.0           | -31.9 | -39.1 | 0.13                     |                         |                            |
| 7.0       | 8.70                    | 1384.8             | 1375.7 | 1366.7 | 2.99                  | 2.35  | 1.74  | -29.9           | -31.4 | -38.5 | 0.13                     |                         |                            |
| 8.0       | 9.50                    | 1394.6             | 1385.3 | 1375.6 | 2.99                  | 2.39  | 2.06  | -30.0           | -31.2 | -37.2 | 0.19                     |                         |                            |
| 9.0       | 10.80                   | 1405.4             | 1396.1 | 1385.3 | 2.97                  | 2.21  | 2.24  | -28.4           | -30.1 | -36.0 | 0.26                     |                         |                            |
| 10.0      | 10.40                   | 1415.7             | 1406.5 | 1395.8 | 3.22                  | 2.47  | 2.29  | -28.2           | -30.3 | -35.4 | 0.06                     |                         |                            |
| 11.0      | 10.50                   | 1426.2             | 1417.0 | 1407.1 | 3.28                  | 2.62  | 2.23  | -28.4           | -29.1 | -34.7 | 0.13                     |                         |                            |
| 12.0      | 10.30                   | 1437.0             | 1427.3 | 1416.8 | 3.20                  | 2.73  | 2.46  | -27.5           | -28.6 | -33.6 | 0.19                     |                         |                            |
| 13.0      | 9.70                    | 1447.6             | 1436.9 | 1426.2 | 3.04                  | 2.77  | 2.53  | -28.0           | -27.4 | -33.7 | 0.19                     |                         |                            |
| 14.0      | 9.30                    | 1456.5             | 1446.2 | 1435.0 | 3.20                  | 2.69  | 2.52  | -28.2           | -27.3 | -33.4 | 0.32                     |                         |                            |
| 15.0      | 9.00                    | 1464.6             | 1455.2 | 1443.6 | 3.19                  | 2.41  | 2.33  | -27.4           | -26.1 | -31.8 | 0.38                     |                         |                            |