

# Voltage Controlled Oscillator

ROS-EDR4039/2

## 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    |                          |                         |                            |
| 0.5       | 133.80                  | 951.9              | 927.7  | 910.2  | 3.42                  | 3.49  | 1.96  | -19.4           | -38.9 | -57.3 | 0.64                     | 1                       | -75                        |
| 1.0       | 116.00                  | 1008.5             | 985.7  | 970.3  | 3.46                  | 3.38  | 0.56  | -19.3           | -44.1 | -56.3 | 0.58                     | 10                      | -95                        |
| 1.5       | 105.30                  | 1059.3             | 1038.4 | 1024.1 | 3.20                  | 3.30  | 0.74  | -18.5           | -46.2 | -55.5 | 0.51                     | 100                     | -119                       |
| 2.0       | 99.30                   | 1108.9             | 1088.1 | 1075.7 | 3.19                  | 3.14  | -1.07 | -18.5           | -48.8 | -54.3 | 0.45                     | 1000                    | -140                       |
| 2.5       | 95.90                   | 1155.1             | 1136.0 | 1123.7 | 2.91                  | 3.03  | 1.29  | -18.5           | -51.5 | -54.9 | 0.45                     |                         |                            |
| 3.0       | 93.40                   | 1202.4             | 1182.7 | 1171.2 | 2.94                  | 2.89  | 0.88  | -19.4           | -48.9 | -54.0 | 0.38                     |                         |                            |
| 3.5       | 91.60                   | 1246.6             | 1228.5 | 1216.5 | 2.91                  | 2.77  | 1.83  | -20.6           | -45.9 | -52.6 | 0.38                     |                         |                            |
| 4.0       | 88.40                   | 1291.5             | 1272.8 | 1261.2 | 2.80                  | 2.89  | 1.87  | -21.7           | -44.3 | -52.6 | 0.51                     |                         |                            |
| 4.5       | 86.70                   | 1334.5             | 1316.1 | 1305.4 | 3.09                  | 3.02  | 1.90  | -23.5           | -43.1 | -52.9 | 0.45                     |                         |                            |
| 5.0       | 85.60                   | 1375.7             | 1358.9 | 1347.4 | 3.12                  | 3.02  | 2.31  | -24.6           | -43.3 | -53.4 | 0.38                     |                         |                            |