

# Voltage Controlled Oscillator

ROS-ED12389/2

## 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       | 8.25                    | 885.7              | 884.1 | 882.9 | 3.23                  | 3.06  | 2.87  | -23.31          | -17.18 | -18.02 | 0.13                     | 1                       | -94                        |
| 1.0       | 6.44                    | 892.7              | 891.3 | 890.2 | 3.61                  | 3.21  | 2.86  | -30.46          | -17.82 | -19.51 | 0.16                     | 10                      | -120                       |
| 2.0       | 6.09                    | 899.0              | 897.6 | 896.5 | 3.69                  | 3.32  | 3.01  | -30.90          | -18.09 | -21.96 | 0.23                     | 100                     | -140                       |
| 3.0       | 6.44                    | 905.4              | 903.9 | 902.7 | 3.20                  | 3.15  | 2.99  | -25.32          | -16.37 | -21.43 | 0.31                     | 1000                    | -160                       |
| 4.0       | 6.18                    | 911.8              | 910.2 | 909.0 | 3.25                  | 3.19  | 3.03  | -21.46          | -17.43 | -25.07 | 0.33                     |                         |                            |
| 5.0       | 5.65                    | 917.9              | 916.2 | 915.0 | 3.20                  | 3.21  | 3.13  | -19.37          | -17.67 | -29.54 | 0.36                     |                         |                            |
| 6.0       | 4.99                    | 923.2              | 921.6 | 920.4 | 3.11                  | 3.17  | 3.13  | -18.16          | -18.01 | -33.41 | 0.37                     |                         |                            |
| 7.0       | 4.44                    | 928.0              | 926.3 | 925.1 | 3.11                  | 3.17  | 3.13  | -17.36          | -18.39 | -34.92 | 0.37                     |                         |                            |
| 8.0       | 3.98                    | 932.2              | 930.6 | 929.4 | 3.11                  | 3.18  | 3.16  | -16.77          | -18.76 | -34.48 | 0.36                     |                         |                            |
| 9.0       | 3.59                    | 936.0              | 934.4 | 933.2 | 3.10                  | 3.21  | 3.20  | -16.35          | -18.96 | -34.02 | 0.35                     |                         |                            |
| 10.0      | 3.28                    | 939.5              | 937.9 | 936.7 | 3.14                  | 3.25  | 3.25  | -16.03          | -19.10 | -33.73 | 0.33                     |                         |                            |
| 11.0      | 3.00                    | 942.7              | 941.0 | 939.8 | 3.16                  | 3.26  | 3.27  | -15.80          | -19.19 | -33.56 | 0.31                     |                         |                            |
| 12.0      | 2.75                    | 945.6              | 943.9 | 942.7 | 3.21                  | 3.31  | 3.31  | -15.63          | -19.27 | -33.38 | 0.29                     |                         |                            |