

# Voltage Controlled Oscillator

JCOS-ED6865/2

## 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    |                          |                         |                            |
| 1.0       | 20.10                   | 851.5              | 848.1  | 845.8  | 7.38                  | 7.25  | 6.99  | -46.4           | -49.3 | -45.6 | 0.06                     | 1                       | -90                        |
| 2.0       | 17.90                   | 869.9              | 866.0  | 863.1  | 8.07                  | 8.23  | 7.95  | -50.7           | -50.2 | -45.7 | 0.06                     | 10                      | -116                       |
| 3.0       | 17.90                   | 888.2              | 883.9  | 880.6  | 8.72                  | 9.10  | 9.04  | -51.3           | -47.6 | -44.5 | 0.13                     | 100                     | -127                       |
| 4.0       | 17.60                   | 905.9              | 901.5  | 898.0  | 8.92                  | 9.55  | 9.56  | -51.2           | -46.6 | -49.0 | 0.13                     | 1000                    | -155                       |
| 5.0       | 16.40                   | 922.3              | 917.9  | 914.3  | 9.26                  | 9.67  | 9.64  | -49.5           | -42.7 | -52.3 | 0.06                     |                         |                            |
| 6.0       | 14.70                   | 937.0              | 932.6  | 929.1  | 9.16                  | 9.69  | 9.63  | -50.8           | -40.3 | -52.3 | 0.06                     |                         |                            |
| 7.0       | 13.20                   | 950.1              | 945.8  | 942.3  | 8.85                  | 9.28  | 9.30  | -52.6           | -39.2 | -50.2 | 0.06                     |                         |                            |
| 8.0       | 12.10                   | 962.2              | 957.9  | 954.4  | 8.24                  | 8.72  | 8.79  | -51.9           | -38.4 | -42.6 | 0.13                     |                         |                            |
| 9.0       | 10.90                   | 973.2              | 968.8  | 965.2  | 7.63                  | 8.16  | 8.19  | -51.5           | -39.2 | -46.7 | 0.13                     |                         |                            |
| 10.0      | 9.60                    | 982.8              | 978.5  | 974.8  | 7.22                  | 7.77  | 7.61  | -50.8           | -40.3 | -37.8 | 0.32                     |                         |                            |
| 11.0      | 8.60                    | 991.3              | 987.0  | 983.4  | 6.47                  | 7.02  | 7.20  | -50.3           | -41.8 | -36.5 |                          |                         |                            |
| 12.0      | 7.70                    | 999.0              | 994.7  | 991.2  | 5.97                  | 6.41  | 6.45  | -49.2           | -42.2 | -36.4 |                          |                         |                            |
| 13.0      | 7.00                    | 1005.9             | 1001.7 | 998.2  | 5.56                  | 5.95  | 5.98  | -54.6           | -44.0 | -37.1 |                          |                         |                            |
| 14.0      | 6.30                    | 1012.1             | 1008.0 | 1004.6 | 5.09                  | 5.59  | 5.49  | -52.8           | -45.2 | -38.8 |                          |                         |                            |
| 15.0      | 5.70                    | 1017.8             | 1013.7 | 1010.3 | 4.83                  | 5.18  | 5.16  | -51.2           | -45.4 | -37.4 |                          |                         |                            |