

# Voltage Controlled Oscillator

ROS-ED12771/1

## 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       | 5.97                    | 3344.6             | 3334.7 | 3328.3 | 5.02                  | 4.71  | 4.28  | -30.69          | -34.54 | -57.06 | 0.30                     | 1                       | -81                        |
| 1.0       | 5.37                    | 3350.1             | 3340.2 | 3333.8 | 5.15                  | 4.60  | 4.26  | -30.79          | -34.10 | -55.38 | 0.31                     | 10                      | -106                       |
| 2.0       | 5.90                    | 3355.7             | 3345.8 | 3339.2 | 5.16                  | 4.61  | 4.28  | -30.65          | -33.72 | -57.00 | 0.30                     | 100                     | -127                       |
| 3.0       | 6.65                    | 3362.1             | 3352.0 | 3345.3 | 5.16                  | 4.62  | 4.28  | -30.56          | -33.63 | -67.17 | 0.31                     | 1000                    | -147                       |
| 4.0       | 7.16                    | 3369.1             | 3358.9 | 3352.0 | 5.14                  | 4.62  | 4.28  | -30.57          | -34.13 | -64.14 | 0.30                     |                         |                            |
| 5.0       | 7.28                    | 3376.4             | 3366.1 | 3359.1 | 5.09                  | 4.57  | 4.24  | -30.82          | -34.96 | -63.85 | 0.30                     |                         |                            |
| 6.0       | 7.19                    | 3383.7             | 3373.3 | 3366.3 | 4.99                  | 4.47  | 4.14  | -31.25          | -34.83 | -62.31 | 0.30                     |                         |                            |
| 7.0       | 7.08                    | 3390.9             | 3380.5 | 3373.3 | 4.93                  | 4.41  | 4.07  | -31.58          | -34.12 | -64.88 | 0.30                     |                         |                            |
| 8.0       | 7.00                    | 3397.9             | 3387.5 | 3380.3 | 4.93                  | 4.40  | 4.06  | -31.71          | -33.64 | -67.28 | 0.30                     |                         |                            |
| 9.0       | 6.97                    | 3405.0             | 3394.5 | 3387.2 | 4.94                  | 4.40  | 4.03  | -31.68          | -33.77 | -64.54 | 0.30                     |                         |                            |
| 10.0      | 6.97                    | 3412.0             | 3401.5 | 3394.1 | 4.97                  | 4.42  | 4.03  | -31.54          | -33.53 | -64.91 | 0.30                     |                         |                            |
| 11.0      | 6.98                    | 3419.0             | 3408.4 | 3401.0 | 4.97                  | 4.44  | 4.04  | -31.41          | -32.96 | -65.50 | 0.30                     |                         |                            |
| 12.0      | 6.99                    | 3426.1             | 3415.4 | 3407.9 | 4.98                  | 4.46  | 4.05  | -31.42          | -32.43 | -66.80 | 0.30                     |                         |                            |
| 13.0      | 7.00                    | 3433.1             | 3422.4 | 3414.8 | 5.00                  | 4.47  | 4.06  | -31.78          | -32.38 | -68.47 | 0.30                     |                         |                            |
| 14.0      | 6.99                    | 3440.2             | 3429.4 | 3421.7 | 5.03                  | 4.50  | 4.08  | -32.40          | -32.65 | -65.94 | 0.30                     |                         |                            |
| 15.0      | 6.97                    | 3447.2             | 3436.4 | 3428.6 | 5.05                  | 4.53  | 4.10  | -33.00          | -32.69 | -68.94 | 0.29                     |                         |                            |
| 16.0      | 6.92                    | 3454.3             | 3443.3 | 3435.5 | 5.06                  | 4.57  | 4.13  | -33.34          | -32.56 | -69.57 | 0.30                     |                         |                            |
| 17.0      | 6.84                    | 3461.2             | 3450.2 | 3442.3 | 5.05                  | 4.58  | 4.16  | -33.36          | -32.71 | -66.92 | 0.29                     |                         |                            |
| 18.0      | 6.71                    | 3468.1             | 3457.0 | 3449.0 | 5.03                  | 4.58  | 4.17  | -33.16          | -32.87 | -68.07 | 0.28                     |                         |                            |