

# Voltage Controlled Oscillator

ROS-EDR4564

## 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       | 43.00                   | 1590.6             | 1581.3 | 1572.8 | 6.11                  | 6.51  | 6.03  | -24.2           | -35.0 | -26.4 | 0.19                     | 1                       | -74                        |
| 1.0       | 38.00                   | 1609.5             | 1600.3 | 1592.1 | 5.76                  | 6.38  | 5.95  | -24.9           | -34.7 | -27.3 | 0.26                     | 10                      | -98                        |
| 1.5       | 38.90                   | 1628.4             | 1619.8 | 1611.5 | 5.52                  | 6.15  | 5.65  | -24.8           | -34.6 | -27.9 | 0.26                     | 100                     | -117                       |
| 2.0       | 39.90                   | 1647.7             | 1639.7 | 1630.8 | 5.44                  | 5.93  | 5.51  | -25.6           | -34.1 | -28.3 | 0.26                     | 1000                    | -138                       |
| 2.5       | 39.20                   | 1667.6             | 1659.3 | 1650.2 | 5.20                  | 5.67  | 5.55  | -26.4           | -34.3 | -28.5 | 0.26                     |                         |                            |
| 3.0       | 37.40                   | 1686.5             | 1678.0 | 1669.4 | 4.73                  | 5.41  | 5.41  | -26.8           | -35.7 | -29.3 | 0.19                     |                         |                            |
| 3.5       | 34.20                   | 1703.0             | 1695.1 | 1687.4 | 4.44                  | 5.15  | 5.16  | -27.3           | -35.4 | -29.6 | 0.19                     |                         |                            |
| 4.0       | 31.10                   | 1718.8             | 1710.7 | 1703.0 | 4.34                  | 4.88  | 4.94  | -28.4           | -36.1 | -30.0 | 0.19                     |                         |                            |
| 4.5       | 27.30                   | 1733.2             | 1724.3 | 1716.7 | 4.16                  | 4.65  | 4.77  | -28.3           | -35.9 | -30.3 | 0.13                     |                         |                            |
| 5.0       | 22.30                   | 1744.3             | 1735.4 | 1727.9 | 3.94                  | 4.51  | 4.73  | -28.3           | -34.8 | -30.8 | 0.13                     |                         |                            |