

# Voltage Controlled Oscillator

ROS-ED11007/1

## 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    |                          |                         |                            |
| 0.5       | 66.82                   | 3027.0             | 2993.9 | 2964.3 | -0.06                 | 0.35  | -0.15 | -22.4           | -34.8 | -33.0 | 6.60                     | 1                       | -67                        |
| 1.0       | 55.56                   | 3054.4             | 3021.7 | 2993.4 | 0.18                  | 0.51  | 0.17  | -22.6           | -32.4 | -34.0 | 7.20                     | 10                      | -93                        |
| 1.5       | 52.56                   | 3081.0             | 3048.0 | 3019.3 | 0.35                  | 0.72  | 0.30  | -22.5           | -33.4 | -34.5 | 8.40                     | 100                     | -116                       |
| 2.0       | 53.14                   | 3107.8             | 3074.6 | 3044.9 | 0.52                  | 0.92  | 0.58  | -22.4           | -33.0 | -33.1 | 8.80                     | 1000                    | -136                       |
| 2.5       | 54.50                   | 3135.3             | 3101.8 | 3071.5 | 0.55                  | 1.02  | 0.71  | -21.8           | -33.6 | -33.8 | 9.20                     |                         |                            |
| 3.0       | 54.52                   | 3163.3             | 3129.1 | 3098.5 | 0.63                  | 1.18  | 0.74  | -21.6           | -33.1 | -34.9 | 8.80                     |                         |                            |
| 3.5       | 53.28                   | 3190.8             | 3155.7 | 3124.4 | 0.82                  | 1.11  | 0.86  | -22.2           | -32.9 | -33.4 | 8.40                     |                         |                            |
| 4.0       | 50.64                   | 3216.2             | 3181.0 | 3149.2 | 0.95                  | 1.25  | 0.85  | -22.9           | -32.7 | -35.6 | 8.40                     |                         |                            |
| 4.5       | 46.24                   | 3239.5             | 3204.2 | 3172.0 | 0.95                  | 1.36  | 0.98  | -23.4           | -33.4 | -35.2 | 8.00                     |                         |                            |
| 5.0       | 41.20                   | 3260.3             | 3224.8 | 3192.4 | 0.90                  | 1.40  | 0.89  | -23.3           | -33.0 | -35.0 | 7.20                     |                         |                            |