

# Voltage Controlled Oscillator

ROS-ED11703A/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       | 3.49                    | 2818.0             | 2811.8 | 2807.8 | 4.68                  | 5.24  | 5.25  | -22.2           | -29.5 | -39.6 | 0.09                     | 1<br>10<br>100<br>1000  | -90<br>-117<br>-137<br>-157 |
| 1.0       | 3.73                    | 2819.7             | 2813.6 | 2809.5 | 4.81                  | 5.13  | 5.33  | -22.0           | -29.4 | -39.7 | 0.09                     |                         |                             |
| 1.5       | 4.27                    | 2821.7             | 2815.5 | 2811.4 | 4.75                  | 5.19  | 5.41  | -21.9           | -29.3 | -39.5 | 0.10                     |                         |                             |
| 2.0       | 5.04                    | 2823.9             | 2817.7 | 2813.6 | 4.88                  | 5.30  | 5.52  | -21.8           | -29.1 | -39.5 | 0.11                     |                         |                             |
| 2.5       | 5.73                    | 2826.6             | 2820.4 | 2816.2 | 4.84                  | 5.33  | 5.36  | -21.5           | -28.9 | -39.6 | 0.07                     |                         |                             |
| 3.0       | 6.02                    | 2829.4             | 2823.3 | 2819.2 | 4.88                  | 5.38  | 5.43  | -21.2           | -28.9 | -39.5 | 0.03                     |                         |                             |
| 3.5       | 5.87                    | 2832.3             | 2826.3 | 2822.2 | 4.99                  | 5.53  | 5.66  | -21.0           | -28.7 | -39.3 | 0.18                     |                         |                             |
| 4.0       | 5.32                    | 2835.0             | 2829.1 | 2825.2 | 5.06                  | 5.57  | 5.76  | -20.8           | -28.6 | -39.6 | 0.34                     |                         |                             |
| 4.5       | 4.54                    | 2837.4             | 2831.7 | 2827.8 | 5.09                  | 5.67  | 5.87  | -20.6           | -28.5 | -39.4 | 0.47                     |                         |                             |
| 5.0       | 3.70                    | 2839.4             | 2833.8 | 2830.0 | 5.12                  | 5.63  | 5.87  | -20.5           | -28.5 | -39.4 | 0.52                     |                         |                             |
| 5.5       | 2.87                    | 2841.1             | 2835.6 | 2831.7 | 5.11                  | 5.67  | 5.91  | -20.4           | -28.5 | -38.9 | 0.51                     |                         |                             |
| 6.0       | 2.15                    | 2842.4             | 2836.9 | 2833.0 | 5.18                  | 5.74  | 6.01  | -20.4           | -28.5 | -39.2 | 0.43                     |                         |                             |

