

# Voltage Controlled Oscillator

ROS-EDR4979/2

## 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    |                          |                         |                            |
| 0.3       | 6.56                    | 652.5              | 650.7 | 648.4 | -1.59                 | -1.30 | -2.03 | -17.6           | -27.1 | -42.5 | 0.08                     | 1                       | -91                        |
| 0.5       | 6.09                    | 654.0              | 652.2 | 649.9 | -1.60                 | -1.30 | -2.05 | -17.6           | -27.1 | -42.7 | 0.08                     | 10                      | -113                       |
| 0.8       | 5.85                    | 655.5              | 653.7 | 651.4 | -1.61                 | -1.31 | -2.07 | -17.6           | -27.0 | -42.7 | 0.08                     | 100                     | -133                       |
| 1.0       | 5.74                    | 656.9              | 655.1 | 652.8 | -1.62                 | -1.31 | -2.09 | -17.6           | -26.9 | -42.4 | 0.08                     | 1000                    | -149                       |
| 1.3       | 5.71                    | 658.3              | 656.6 | 654.2 | -1.64                 | -1.32 | -2.11 | -17.6           | -26.9 | -42.6 | 0.08                     |                         |                            |
| 1.5       | 5.74                    | 659.8              | 658.0 | 655.6 | -1.65                 | -1.33 | -2.13 | -17.6           | -26.8 | -42.7 | 0.08                     |                         |                            |
| 1.8       | 5.82                    | 661.3              | 659.4 | 657.1 | -1.67                 | -1.33 | -2.15 | -17.5           | -26.8 | -42.6 | 0.08                     |                         |                            |
| 2.0       | 5.92                    | 662.8              | 660.9 | 658.6 | -1.68                 | -1.35 | -2.18 | -17.5           | -26.7 | -42.6 | 0.08                     |                         |                            |
| 2.3       | 6.04                    | 664.3              | 662.4 | 660.1 | -1.70                 | -1.36 | -2.21 | -17.4           | -26.7 | -42.8 | 0.08                     |                         |                            |
| 2.5       | 6.18                    | 665.9              | 664.0 | 661.6 | -1.71                 | -1.37 | -2.24 | -17.3           | -26.8 | -42.9 | 0.08                     |                         |                            |
| 2.8       | 6.33                    | 667.5              | 665.6 | 663.1 | -1.72                 | -1.38 | -2.26 | -17.2           | -26.9 | -43.0 | 0.08                     |                         |                            |
| 3.0       | 6.46                    | 669.1              | 667.2 | 664.7 | -1.73                 | -1.39 | -2.29 | -17.1           | -26.9 | -43.0 | 0.07                     |                         |                            |
| 3.3       | 6.58                    | 670.8              | 668.8 | 666.4 | -1.74                 | -1.40 | -2.31 | -17.0           | -26.9 | -43.3 | 0.07                     |                         |                            |
| 3.5       | 6.67                    | 672.5              | 670.5 | 668.0 | -1.76                 | -1.41 | -2.33 | -17.0           | -27.0 | -43.4 | 0.07                     |                         |                            |
| 3.8       | 6.75                    | 674.2              | 672.2 | 669.7 | -1.77                 | -1.42 | -2.35 | -16.9           | -27.1 | -43.4 | 0.07                     |                         |                            |
| 4.0       | 6.78                    | 675.9              | 673.9 | 671.4 | -1.78                 | -1.43 | -2.38 | -16.9           | -27.2 | -43.4 | 0.06                     |                         |                            |
| 4.3       | 6.80                    | 677.7              | 675.6 | 673.1 | -1.80                 | -1.44 | -2.40 | -16.9           | -27.3 | -43.5 | 0.06                     |                         |                            |
| 4.5       | 6.78                    | 679.4              | 677.3 | 674.7 | -1.79                 | -1.47 | -2.43 | -16.8           | -27.4 | -43.4 | 0.06                     |                         |                            |
| 4.8       | 6.74                    | 681.1              | 679.0 | 676.4 | -1.82                 | -1.45 | -2.42 | -16.9           | -27.5 | -43.9 | 0.06                     |                         |                            |
| 5.0       | 6.68                    | 682.7              | 680.6 | 678.1 | -1.84                 | -1.48 | -2.47 | -16.9           | -27.5 | -43.7 | 0.05                     |                         |                            |
| 5.3       | 6.60                    | 684.4              | 682.3 | 679.7 | -1.86                 | -1.51 | -2.49 | -16.9           | -27.6 | -43.8 | 0.05                     |                         |                            |
| 5.5       | 6.52                    | 686.1              | 683.9 | 681.4 | -1.88                 | -1.52 | -2.52 | -16.9           | -27.6 | -43.9 | 0.05                     |                         |                            |
| 5.8       | 6.43                    | 687.7              | 685.5 | 683.0 | -1.90                 | -1.55 | -2.55 | -16.9           | -27.7 | -44.0 | 0.05                     |                         |                            |
| 6.0       | 6.33                    | 689.3              | 687.1 | 684.5 | -1.93                 | -1.57 | -2.58 | -17.0           | -27.7 | -43.8 | 0.05                     |                         |                            |
| 6.3       | 6.22                    | 690.8              | 688.7 | 686.1 | -1.95                 | -1.60 | -2.61 | -17.0           | -27.7 | -43.5 | 0.05                     |                         |                            |
| 6.5       | 6.12                    | 692.4              | 690.2 | 687.6 | -1.97                 | -1.63 | -2.64 | -17.0           | -27.7 | -43.7 | 0.05                     |                         |                            |
| 6.8       | 6.02                    | 693.9              | 691.7 | 689.1 | -1.99                 | -1.65 | -2.67 | -17.0           | -27.7 | -43.7 | 0.05                     |                         |                            |
| 7.0       | 5.91                    | 695.4              | 693.2 | 690.6 | -2.02                 | -1.68 | -2.70 | -17.1           | -27.7 | -43.5 | 0.05                     |                         |                            |