

# Voltage Controlled Oscillator

ROS-ED12485/2

## 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     |                          |                         |                            |
| 0.00      | 84.85                   | 3106.78            | 3088.88 | 3087.50 | 2.39                  | 2.25  | 1.81  | -17.43          | -39.60 | -57.28 | 0.63                     | 1                       | -60                        |
| 1.00      | 73.41                   | 3181.73            | 3165.45 | 3166.93 | 2.38                  | 2.50  | 1.99  | -17.40          | -40.05 | -50.39 | 4.66                     | 10                      | -85                        |
| 2.00      | 73.35                   | 3253.87            | 3238.94 | 3240.08 | 2.76                  | 2.49  | 1.93  | -17.83          | -39.04 | -52.84 | 6.54                     | 100                     | -105                       |
| 3.00      | 79.31                   | 3329.62            | 3314.76 | 3313.59 | 3.53                  | 3.34  | 2.72  | -18.77          | -36.55 | -58.30 | 6.91                     | 1000                    | -125                       |
| 4.00      | 91.83                   | 3415.61            | 3399.79 | 3395.50 | 4.05                  | 3.61  | 2.92  | -19.53          | -32.96 | -58.24 | 6.47                     |                         |                            |
| 5.00      | 104.43                  | 3514.23            | 3498.28 | 3491.12 | 4.23                  | 4.06  | 3.43  | -21.67          | -30.65 | -58.30 | 5.62                     |                         |                            |
| 6.00      | 116.27                  | 3626.13            | 3609.55 | 3600.32 | 4.59                  | 4.14  | 3.39  | -24.69          | -28.08 | -57.69 | 4.88                     |                         |                            |
| 7.00      | 121.63                  | 3752.56            | 3730.63 | 3718.55 | 4.64                  | 4.23  | 3.60  | -30.02          | -26.43 | -57.90 | 4.30                     |                         |                            |
| 8.00      | 112.52                  | 3873.70            | 3848.69 | 3835.08 | 4.42                  | 4.26  | 3.71  | -31.03          | -28.99 | -58.91 | 2.79                     |                         |                            |
| 9.00      | 108.96                  | 3984.68            | 3958.90 | 3945.79 | 4.39                  | 4.05  | 3.25  | -30.25          | -30.84 | -59.53 | 2.79                     |                         |                            |
| 10.00     | 103.58                  | 4091.57            | 4065.24 | 4052.21 | 4.52                  | 4.02  | 3.26  | -30.91          | -43.50 | -60.06 | 3.29                     |                         |                            |
| 11.00     | 96.44                   | 4191.37            | 4166.05 | 4153.26 | 4.08                  | 3.92  | 3.16  | -28.78          | -50.68 | -58.11 | 3.51                     |                         |                            |
| 12.00     | 92.01                   | 4285.84            | 4260.51 | 4247.65 | 4.03                  | 3.57  | 2.69  | -27.70          | -51.26 | -59.86 | 3.20                     |                         |                            |
| 13.00     | 84.55                   | 4374.39            | 4348.56 | 4335.50 | 3.54                  | 3.57  | 2.84  | -26.39          | -54.05 | -57.91 | 1.83                     |                         |                            |
| 14.00     | 77.77                   | 4457.25            | 4430.44 | 4416.73 | 3.45                  | 3.09  | 2.41  | -25.24          | -56.37 | -57.52 | 0.23                     |                         |                            |
| 15.00     | 72.95                   | 4534.14            | 4505.26 | 4490.03 | 2.86                  | 3.04  | 2.30  | -24.41          | -55.85 | -56.07 | 2.41                     |                         |                            |
| 16.00     | 66.09                   | 4603.92            | 4574.16 | 4557.30 | 2.95                  | 2.91  | 2.25  | -23.57          | -55.39 | -57.50 | 4.26                     |                         |                            |
| 17.00     | 61.28                   | 4668.50            | 4636.23 | 4617.39 | 2.36                  | 2.40  | 1.72  | -23.98          | -55.97 | -56.78 | 5.90                     |                         |                            |
| 18.00     | 54.44                   | 4725.45            | 4693.15 | 4672.46 | 2.26                  | 2.48  | 1.97  | -24.67          | -53.90 | -56.55 | 7.08                     |                         |                            |
| 19.00     | 47.07                   | 4777.08            | 4743.07 | 4721.51 | 2.02                  | 2.01  | 1.49  | -24.84          | -50.50 | -55.49 | 7.93                     |                         |                            |
| 20.00     | 42.52                   | 4824.88            | 4788.83 | 4764.78 | 1.65                  | 1.74  | 1.15  | -25.31          | -53.55 | -55.30 | 9.00                     |                         |                            |
| 21.00     | 40.35                   | 4866.82            | 4830.98 | 4804.83 | 1.13                  | 1.50  | 1.05  | -25.74          | -51.32 | -54.93 | 9.86                     |                         |                            |
| 22.00     | 34.59                   | 4904.85            | 4868.00 | 4841.47 | 1.46                  | 1.81  | 1.52  | -25.76          | -50.45 | -55.43 | 9.94                     |                         |                            |



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RF/MICROWAVE COMPONENTS

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