

# Voltage Controlled Oscillator

POS-EDR4638

## 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       | 15.10                   | 120.1              | 115.3 | 114.1 | 6.97                  | 8.40  | 8.50  | -20.6           | -38.0 | -50.1 | -0.19                    | 1                       | -83                        |
| 1.0       | 11.80                   | 125.6              | 121.2 | 120.1 | 7.21                  | 8.81  | 8.98  | -23.0           | -40.9 | -50.7 | -0.13                    | 10                      | -103                       |
| 1.5       | 10.50                   | 130.7              | 126.4 | 125.3 | 7.40                  | 9.10  | 9.31  | -24.0           | -42.8 | -51.0 | -0.19                    | 100                     | -124                       |
| 2.0       | 10.00                   | 135.5              | 131.4 | 130.3 | 7.57                  | 9.34  | 9.57  | -24.5           | -44.2 | -50.9 | -0.19                    | 1000                    | -144                       |
| 2.5       | 9.90                    | 140.4              | 136.3 | 135.2 | 7.75                  | 9.55  | 9.81  | -24.6           | -45.1 | -51.0 | -0.19                    |                         |                            |
| 3.0       | 10.80                   | 145.8              | 141.7 | 140.6 | 7.94                  | 9.75  | 10.05 | -24.8           | -46.2 | -51.0 | -0.19                    |                         |                            |
| 3.5       | 11.90                   | 151.7              | 147.7 | 146.5 | 8.11                  | 9.93  | 10.24 | -25.2           | -47.8 | -51.1 | -0.26                    |                         |                            |
| 4.0       | 13.20                   | 158.5              | 154.2 | 153.1 | 8.28                  | 10.05 | 10.39 | -25.7           | -49.5 | -52.1 | -0.26                    |                         |                            |
| 4.5       | 14.00                   | 165.2              | 161.2 | 160.0 | 8.39                  | 10.15 | 10.50 | -26.4           | -50.2 | -52.0 | -0.19                    |                         |                            |
| 5.0       | 13.70                   | 172.1              | 168.1 | 166.9 | 8.38                  | 10.21 | 10.56 | -27.0           | -52.0 | -52.3 | -0.32                    |                         |                            |