

# Voltage Controlled Oscillator

JTOS-ED7042/3

## 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    |                          |                         |                            |
| 1.0       | 4.10                    | 1301.9             | 1297.7 | 1289.6 | 9.25                  | 7.49  | 7.16  | -22.4           | -35.1 | -40.8 | 0.77                     | 1                       | -80                        |
| 2.0       | 4.00                    | 1305.8             | 1301.7 | 1293.4 | 9.32                  | 7.69  | 7.38  | -22.8           | -35.6 | -40.6 | 0.78                     | 10                      | -104                       |
| 3.0       | 4.30                    | 1310.1             | 1306.0 | 1297.5 | 9.43                  | 7.83  | 7.47  | -22.8           | -36.0 | -41.2 | 0.85                     | 100                     | -124                       |
| 4.0       | 4.70                    | 1314.7             | 1310.7 | 1302.0 | 9.54                  | 8.05  | 7.69  | -23.2           | -36.4 | -40.5 | 0.85                     | 1000                    | -142                       |
| 5.0       | 4.90                    | 1319.4             | 1315.5 | 1306.6 | 9.96                  | 8.58  | 7.85  | -23.4           | -36.9 | -40.9 | 0.83                     |                         |                            |
| 6.0       | 4.70                    | 1323.9             | 1320.3 | 1311.1 | 10.06                 | 8.80  | 8.07  | -23.8           | -37.1 | -41.1 | 0.89                     |                         |                            |
| 7.0       | 4.50                    | 1328.3             | 1324.8 | 1315.4 | 10.12                 | 9.02  | 8.58  | -24.0           | -37.7 | -40.9 | 0.89                     |                         |                            |
| 8.0       | 4.30                    | 1332.5             | 1329.0 | 1319.5 | 10.16                 | 9.23  | 8.77  | -24.6           | -38.2 | -40.9 | 0.87                     |                         |                            |
| 9.0       | 4.00                    | 1336.5             | 1333.0 | 1323.4 | 9.95                  | 9.44  | 8.95  | -24.8           | -38.8 | -40.5 | 0.97                     |                         |                            |
| 10.0      | 3.80                    | 1340.1             | 1336.9 | 1327.1 | 10.05                 | 9.34  | 9.14  | -25.1           | -39.5 | -41.0 | 0.97                     |                         |                            |
| 11.0      | 3.70                    | 1347.4             | 1340.5 | 1330.6 | 10.32                 | 9.54  | 9.32  | -25.5           | -40.2 | -41.3 | 0.96                     |                         |                            |
| 12.0      | 3.50                    | 1350.8             | 1344.0 | 1333.9 | 10.51                 | 9.72  | 9.48  | -25.5           | -40.7 | -41.0 | 1.00                     |                         |                            |