

# Voltage Controlled Oscillator

JTOS-ED6530/2

## 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    |                          |                         |                            |
| 0.5       | 33.20                   | 1728.5             | 1713.4 | 1697.4 | 6.36                  | 6.17  | 5.40  | -23.8           | -23.6 | -34.8 | 8.50                     | 1                       | -65                        |
| 1.0       | 30.40                   | 1743.3             | 1728.6 | 1712.7 | 6.45                  | 6.41  | 5.55  | -24.1           | -23.6 | -34.5 |                          | 10                      | -95                        |
| 1.5       | 30.00                   | 1758.1             | 1743.6 | 1727.9 | 6.60                  | 6.53  | 5.78  | -24.3           | -24.1 | -34.5 |                          | 100                     | -117                       |
| 2.0       | 30.70                   | 1713.5             | 1758.9 | 1743.3 | 6.72                  | 6.75  | 5.92  | -24.4           | -24.6 | -34.6 | 8.10                     | 1000                    | -134                       |
| 2.5       | 32.10                   | 1789.5             | 1775.0 | 1759.4 | 6.68                  | 6.87  | 6.17  | -24.3           | -25.7 | -35.0 |                          |                         |                            |
| 3.0       | 33.70                   | 1806.4             | 1791.8 | 1776.2 | 6.43                  | 6.85  | 5.97  | -24.0           | -26.2 | -34.9 |                          |                         |                            |
| 3.5       | 35.20                   | 1824.1             | 1809.4 | 1793.7 | 6.33                  | 6.66  | 6.29  | -23.5           | -26.2 | -35.0 | 7.65                     |                         |                            |
| 4.0       | 36.10                   | 1842.1             | 1827.4 | 1811.9 | 6.25                  | 6.42  | 6.12  | -22.9           | -27.9 | -34.9 |                          |                         |                            |
| 4.5       | 36.60                   | 1860.5             | 1845.7 | 1830.2 | 6.34                  | 6.55  | 5.94  | -22.8           | -29.3 | -36.6 |                          |                         |                            |
| 5.0       | 36.50                   | 1878.7             | 1864.0 | 1848.6 | 6.40                  | 6.69  | 6.09  | -22.2           | -30.9 | -39.6 | 6.13                     |                         |                            |