

Voltage Controlled Oscillator

ROS-2045-219+

Typical Performance Data

| V TUNE | TUNE SENS (MHz/V) | FREQUENCY (MHz) | | | POWER OUTPUT (dBm) | | | HARMONICS (dBc) | | | FREQ. PUSH (MHz/V) | FREQ OFFSET (KHz) | PHASE NOISE (dBc/Hz) |
|-----------|-------------------------|--------------------|--------|--------|-----------------------|-------|-------|-----------------|-------|-------|--------------------------|-------------------------|----------------------------|
| | | -55°C | +25°C | +85°C | -55°C | +25°C | +85°C | F2 | F3 | F4 | | | |
| 0.00 | 48.87 | 1833.0 | 1822.5 | 1813.0 | 7.27 | 6.78 | 6.10 | -25.6 | -39.0 | -54.0 | 1.09 | 1 | -76 |
| 0.25 | 43.57 | 1844.4 | 1834.7 | 1826.0 | 7.23 | 6.71 | 6.05 | -25.5 | -36.4 | -55.1 | 0.91 | 10 | -101 |
| 0.50 | 41.96 | 1855.0 | 1845.6 | 1837.5 | 7.22 | 6.68 | 5.96 | -25.2 | -36.4 | -51.6 | 0.76 | 100 | -123 |
| 0.75 | 40.61 | 1865.1 | 1856.1 | 1848.3 | 7.22 | 6.66 | 5.93 | -24.2 | -36.2 | -50.4 | 0.59 | 1000 | -143 |
| 1.00 | 40.74 | 1875.2 | 1866.3 | 1858.6 | 7.22 | 6.65 | 5.90 | -23.7 | -35.2 | -46.2 | 0.47 | | |
| 1.25 | 41.47 | 1885.5 | 1876.5 | 1868.7 | 7.21 | 6.64 | 5.88 | -24.0 | -34.4 | -45.3 | 0.37 | | |
| 1.50 | 44.13 | 1896.2 | 1886.8 | 1879.0 | 7.14 | 6.61 | 5.87 | -24.2 | -34.7 | -43.6 | 0.27 | | |
| 1.75 | 45.06 | 1907.1 | 1897.9 | 1889.8 | 7.09 | 6.53 | 5.82 | -23.4 | -33.2 | -42.1 | 0.18 | | |
| 2.00 | 45.79 | 1918.2 | 1909.1 | 1900.9 | 7.03 | 6.49 | 5.75 | -22.9 | -33.1 | -41.6 | 0.13 | | |
| 2.25 | 47.98 | 1929.7 | 1920.6 | 1912.4 | 6.98 | 6.42 | 5.71 | -22.6 | -33.1 | -40.8 | 0.07 | | |
| 2.50 | 49.48 | 1941.7 | 1932.6 | 1924.2 | 6.94 | 6.37 | 5.63 | -22.7 | -32.4 | -41.2 | 0.02 | | |
| 2.75 | 51.55 | 1954.2 | 1944.9 | 1936.5 | 6.90 | 6.32 | 5.58 | -22.9 | -31.9 | -39.9 | 0.07 | | |
| 3.00 | 52.80 | 1967.2 | 1957.8 | 1949.3 | 6.87 | 6.27 | 5.52 | -22.1 | -32.7 | -39.4 | 0.11 | | |
| 3.25 | 54.20 | 1980.5 | 1971.0 | 1962.4 | 6.84 | 6.25 | 5.48 | -21.5 | -32.2 | -37.6 | 0.08 | | |
| 3.50 | 56.11 | 1994.3 | 1984.6 | 1975.8 | 6.79 | 6.19 | 5.45 | -21.8 | -33.1 | -36.5 | 0.06 | | |
| 3.75 | 55.81 | 2008.5 | 1998.6 | 1989.5 | 6.70 | 6.15 | 5.39 | -21.9 | -32.6 | -35.2 | 0.03 | | |
| 4.00 | 53.61 | 2022.2 | 2012.6 | 2003.4 | 6.63 | 6.05 | 5.33 | -21.8 | -32.1 | -34.2 | 0.16 | | |
| 4.25 | 51.52 | 2035.2 | 2026.0 | 2017.0 | 6.59 | 5.99 | 5.25 | -21.4 | -32.7 | -32.1 | 0.22 | | |
| 4.50 | 49.65 | 2048.0 | 2038.8 | 2030.1 | 6.58 | 5.96 | 5.21 | -21.5 | -31.8 | -31.2 | 0.24 | | |
| 4.75 | 48.49 | 2060.4 | 2051.3 | 2042.6 | 6.61 | 5.96 | 5.18 | -21.8 | -32.3 | -30.1 | 0.26 | | |
| 5.00 | 47.38 | 2072.6 | 2063.4 | 2054.7 | 6.59 | 5.98 | 5.19 | -21.4 | -32.9 | -30.0 | 0.24 | | |
| 5.25 | 45.62 | 2084.5 | 2075.2 | 2066.4 | 6.59 | 5.96 | 5.21 | -21.1 | -32.0 | -29.3 | 0.25 | | |
| 5.50 | 44.42 | 2096.0 | 2086.6 | 2077.8 | 6.56 | 5.97 | 5.19 | -21.4 | -32.7 | -29.9 | 0.25 | | |
| 5.75 | 42.40 | 2107.0 | 2097.7 | 2088.9 | 6.51 | 5.93 | 5.19 | -22.0 | -32.4 | -28.8 | 0.25 | | |
| 6.00 | 40.15 | 2117.6 | 2108.3 | 2099.5 | 6.46 | 5.89 | 5.15 | -22.4 | -31.1 | -29.6 | 0.30 | | |
| 6.25 | 38.14 | 2127.5 | 2118.4 | 2109.6 | 6.41 | 5.85 | 5.12 | -22.1 | -31.1 | -30.1 | 0.34 | | |
| 6.50 | 35.86 | 2136.8 | 2127.9 | 2119.2 | 6.39 | 5.80 | 5.09 | -21.7 | -31.3 | -29.9 | 0.32 | | |
| 6.75 | 33.63 | 2145.6 | 2136.9 | 2128.2 | 6.40 | 5.78 | 5.07 | -21.7 | -31.0 | -31.0 | 0.34 | | |
| 7.00 | 33.63 | 2154.1 | 2145.3 | 2136.7 | 6.41 | 5.80 | 5.04 | -22.0 | -30.5 | -31.4 | 0.38 | | |

