

## 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      | 107.85                  | 1549.62            | 1510.14 | 1478.91 | 4.30                  | 3.56  | 3.47  | -17.57          | -26.00 | -28.12 | 3.63                     | 1                       | -61                        |
| 1.00      | 89.95                   | 1641.98            | 1604.86 | 1573.78 | 4.04                  | 3.51  | 2.68  | -18.30          | -21.63 | -31.57 | 3.61                     | 10                      | -85                        |
| 2.00      | 94.72                   | 1734.86            | 1695.55 | 1665.52 | 4.65                  | 4.06  | 3.25  | -19.82          | -21.42 | -34.15 | 3.06                     | 100                     | -111                       |
| 3.00      | 105.04                  | 1836.34            | 1795.38 | 1765.85 | 4.69                  | 3.94  | 2.93  | -21.40          | -21.44 | -32.83 | 2.62                     | 1000                    | -131                       |
| 4.00      | 118.19                  | 1949.62            | 1907.77 | 1879.31 | 5.26                  | 4.32  | 3.24  | -23.65          | -22.02 | -34.01 | 1.93                     |                         |                            |
| 5.00      | 125.09                  | 2070.55            | 2030.33 | 2003.76 | 5.91                  | 4.79  | 3.89  | -24.68          | -21.94 | -33.58 | 0.46                     |                         |                            |
| 6.00      | 125.71                  | 2191.13            | 2157.00 | 2131.11 | 6.07                  | 4.98  | 3.81  | -22.34          | -24.97 | -31.01 | 2.41                     |                         |                            |
| 7.00      | 111.86                  | 2305.80            | 2276.98 | 2253.91 | 5.65                  | 5.04  | 3.85  | -26.10          | -24.94 | -26.48 | 4.19                     |                         |                            |
| 8.00      | 104.90                  | 2413.63            | 2387.30 | 2367.66 | 6.02                  | 5.38  | 4.52  | -19.70          | -22.69 | -24.11 | 5.12                     |                         |                            |
| 9.00      | 100.62                  | 2516.77            | 2491.59 | 2473.71 | 5.65                  | 5.19  | 4.56  | -19.27          | -22.56 | -24.56 | 5.48                     |                         |                            |
| 10.00     | 96.28                   | 2615.86            | 2591.31 | 2574.46 | 5.38                  | 5.06  | 4.48  | -18.99          | -22.16 | -21.98 | 5.43                     |                         |                            |
| 11.00     | 93.34                   | 2712.05            | 2687.88 | 2671.17 | 5.42                  | 5.03  | 4.59  | -18.98          | -20.23 | -23.31 | 5.10                     |                         |                            |
| 12.00     | 90.43                   | 2805.14            | 2780.97 | 2763.99 | 4.56                  | 4.36  | 4.01  | -19.13          | -23.07 | -22.60 | 4.64                     |                         |                            |
| 13.00     | 85.81                   | 2893.68            | 2869.31 | 2851.91 | 4.77                  | 4.45  | 4.18  | -18.65          | -20.15 | -24.57 | 4.01                     |                         |                            |
| 14.00     | 80.86                   | 2976.07            | 2951.64 | 2934.62 | 4.58                  | 3.93  | 3.55  | -17.65          | -22.26 | -30.00 | 3.11                     |                         |                            |
| 15.00     | 75.95                   | 3053.95            | 3029.41 | 3012.76 | 3.76                  | 3.49  | 3.30  | -16.26          | -19.82 | -52.12 | 2.05                     |                         |                            |
| 16.00     | 86.57                   | 3137.40            | 3110.51 | 3092.09 | 3.52                  | 3.03  | 2.47  | -16.18          | -21.35 | -37.91 | 0.82                     |                         |                            |
| 17.00     | 77.15                   | 3220.02            | 3196.80 | 3178.66 | 3.60                  | 3.21  | 2.80  | -16.49          | -24.67 | -39.95 | 0.09                     |                         |                            |
| 18.00     | 63.10                   | 3286.00            | 3264.51 | 3248.52 | 3.92                  | 3.17  | 2.50  | -17.95          | -25.13 | -39.51 | 0.36                     |                         |                            |
| 19.00     | 57.60                   | 3346.74            | 3324.64 | 3307.96 | 3.79                  | 3.21  | 2.98  | -18.11          | -23.94 | -40.44 | 0.61                     |                         |                            |
| 20.00     | 51.97                   | 3405.06            | 3380.20 | 3361.65 | 3.23                  | 2.99  | 2.80  | -17.79          | -22.07 | -43.25 | 1.08                     |                         |                            |
| 21.00     | 47.88                   | 3456.68            | 3431.60 | 3412.48 | 3.01                  | 2.57  | 2.18  | -17.62          | -20.64 | -45.77 | 1.29                     |                         |                            |
| 22.00     | 44.53                   | 3504.21            | 3477.76 | 3457.47 | 2.83                  | 2.68  | 2.31  | -16.37          | -19.89 | -47.74 | 1.53                     |                         |                            |
| 23.00     | 39.43                   | 3546.25            | 3520.13 | 3499.24 | 2.49                  | 2.44  | 2.27  | -16.32          | -19.99 | -51.30 | 1.60                     |                         |                            |
| 24.00     | 34.63                   | 3583.90            | 3556.91 | 3535.86 | 2.28                  | 2.20  | 2.07  | -15.83          | -21.38 | -50.38 | 1.69                     |                         |                            |
| 25.00     | 30.46                   | 3617.28            | 3589.67 | 3567.57 | 2.33                  | 2.10  | 1.94  | -14.80          | -21.38 | -57.95 | 1.96                     |                         |                            |
| 26.00     | 25.54                   | 3645.07            | 3617.85 | 3595.16 | 2.04                  | 1.74  | 1.45  | -14.64          | -21.37 | -60.12 | 2.21                     |                         |                            |
| 27.00     | 21.09                   | 3668.35            | 3641.13 | 3618.60 | 1.82                  | 1.74  | 1.41  | -14.52          | -29.12 | -58.08 | 2.48                     |                         |                            |
| 28.00     | 17.59                   | 3688.25            | 3660.41 | 3637.82 | 1.68                  | 1.70  | 1.49  | -14.64          | -23.12 | -57.91 | 2.77                     |                         |                            |