

## 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     |                          |                         |                            |
| 0.30      | 7.80                    | 775.81             | 764.63 | 754.16 | 11.28                 | 11.18 | 10.20 | -21.09          | -31.43 | -34.25 | 0.48                     | 1                       | -68                        |
| 0.60      | 7.13                    | 777.98             | 766.77 | 756.34 | 11.30                 | 11.15 | 10.19 | -21.16          | -31.49 | -34.46 | 0.47                     | 10                      | -92                        |
| 0.90      | 6.74                    | 780.06             | 768.79 | 758.34 | 11.28                 | 11.15 | 10.25 | -21.22          | -31.49 | -34.27 | 0.44                     | 100                     | -112                       |
| 1.20      | 6.56                    | 782.11             | 770.76 | 760.22 | 11.26                 | 11.14 | 10.30 | -21.45          | -31.39 | -34.45 | 0.41                     | 1000                    | -132                       |
| 1.50      | 6.46                    | 784.15             | 772.70 | 762.05 | 11.31                 | 11.18 | 10.33 | -21.49          | -31.29 | -34.16 | 0.39                     |                         |                            |
| 1.80      | 6.50                    | 786.23             | 774.65 | 763.90 | 11.28                 | 11.17 | 10.35 | -21.56          | -31.34 | -34.48 | 0.37                     |                         |                            |
| 2.10      | 6.57                    | 788.34             | 776.62 | 765.78 | 11.29                 | 11.16 | 10.33 | -21.48          | -31.19 | -34.22 | 0.35                     |                         |                            |
| 2.40      | 6.69                    | 790.51             | 778.63 | 767.71 | 11.25                 | 11.18 | 10.32 | -21.41          | -31.26 | -34.42 | 0.33                     |                         |                            |
| 2.70      | 6.90                    | 792.77             | 780.70 | 769.68 | 11.30                 | 11.18 | 10.29 | -21.44          | -31.00 | -34.38 | 0.31                     |                         |                            |
| 3.00      | 7.07                    | 795.07             | 782.82 | 771.72 | 11.38                 | 11.26 | 10.26 | -21.65          | -31.01 | -34.16 | 0.28                     |                         |                            |
| 3.30      | 7.30                    | 797.36             | 785.01 | 773.83 | 11.57                 | 11.28 | 10.29 | -21.84          | -30.98 | -34.06 | 0.26                     |                         |                            |
| 3.60      | 7.64                    | 799.68             | 787.30 | 776.02 | 11.76                 | 11.31 | 10.26 | -21.88          | -30.94 | -33.72 | 0.24                     |                         |                            |
| 3.90      | 7.90                    | 802.12             | 789.67 | 778.32 | 11.82                 | 11.40 | 10.26 | -21.95          | -30.76 | -33.11 | 0.20                     |                         |                            |
| 4.20      | 8.27                    | 804.72             | 792.15 | 780.73 | 11.87                 | 11.44 | 10.23 | -21.87          | -30.40 | -33.34 | 0.18                     |                         |                            |
| 4.50      | 8.60                    | 807.49             | 794.73 | 783.26 | 11.84                 | 11.55 | 10.27 | -21.82          | -30.13 | -33.60 | 0.14                     |                         |                            |
| 4.80      | 9.07                    | 810.42             | 797.45 | 785.95 | 11.85                 | 11.58 | 10.22 | -21.90          | -30.00 | -33.70 | 0.12                     |                         |                            |
| 5.10      | 9.57                    | 813.52             | 800.32 | 788.82 | 11.87                 | 11.64 | 10.22 | -21.99          | -30.09 | -33.78 | 0.10                     |                         |                            |
| 5.40      | 10.33                   | 816.77             | 803.42 | 791.90 | 11.80                 | 11.66 | 10.19 | -22.21          | -30.52 | -33.52 | 0.08                     |                         |                            |
| 5.70      | 11.00                   | 820.25             | 806.72 | 794.96 | 11.76                 | 11.62 | 10.42 | -22.38          | -31.11 | -33.57 | 0.07                     |                         |                            |
| 6.00      | 11.60                   | 823.95             | 810.20 | 798.24 | 11.73                 | 11.63 | 10.56 | -22.51          | -31.46 | -33.46 | 0.04                     |                         |                            |
| 6.30      | 12.20                   | 827.87             | 813.86 | 801.63 | 11.70                 | 11.68 | 10.67 | -22.55          | -31.56 | -33.48 | 0.02                     |                         |                            |
| 6.60      | 12.83                   | 831.99             | 817.71 | 805.29 | 11.61                 | 11.70 | 10.72 | -22.67          | -31.45 | -33.23 | 0.00                     |                         |                            |
| 6.90      | 13.50                   | 836.36             | 821.76 | 809.23 | 11.56                 | 11.67 | 10.70 | -22.67          | -31.42 | -33.33 | 0.02                     |                         |                            |
| 7.20      | 14.20                   | 840.96             | 826.02 | 813.42 | 11.66                 | 11.71 | 10.67 | -22.87          | -31.21 | -33.02 | 0.04                     |                         |                            |
| 7.50      | 14.83                   | 845.56             | 830.47 | 817.83 | 11.83                 | 11.72 | 10.61 | -23.05          | -31.08 | -33.28 | 0.06                     |                         |                            |
| 7.80      | 15.57                   | 850.44             | 835.14 | 822.46 | 11.82                 | 11.69 | 10.48 | -23.29          | -31.08 | -32.97 | 0.06                     |                         |                            |
| 8.10      | 16.10                   | 855.66             | 839.97 | 827.28 | 11.67                 | 11.70 | 10.43 | -23.47          | -31.15 | -32.78 | 0.07                     |                         |                            |
| 8.40      | 16.90                   | 861.13             | 845.04 | 832.29 | 11.55                 | 11.66 | 10.36 | -23.83          | -31.07 | -33.04 | 0.08                     |                         |                            |
| 8.70      | 17.73                   | 866.76             | 850.36 | 837.49 | 11.50                 | 11.58 | 10.30 | -23.93          | -32.31 | -33.26 | 0.09                     |                         |                            |
| 9.00      | 18.37                   | 872.53             | 855.87 | 842.73 | 11.42                 | 11.52 | 10.43 | -24.04          | -32.73 | -33.37 | 0.10                     |                         |                            |
| 9.30      | 18.73                   | 878.39             | 861.49 | 848.04 | 11.45                 | 11.50 | 10.54 | -24.35          | -33.08 | -33.69 | 0.10                     |                         |                            |
| 9.60      | 19.00                   | 884.23             | 867.19 | 853.69 | 11.52                 | 11.54 | 10.40 | -24.54          | -32.78 | -33.95 | 0.11                     |                         |                            |
| 9.90      | 19.27                   | 890.20             | 872.97 | 859.56 | 11.49                 | 11.52 | 10.22 | -24.79          | -32.41 | -33.72 | 0.13                     |                         |                            |
| 10.20     | 19.63                   | 896.49             | 878.86 | 865.52 | 11.20                 | 11.48 | 10.12 | -25.07          | -32.97 | -32.56 | 0.14                     |                         |                            |
| 10.50     | 19.90                   | 902.75             | 884.83 | 871.49 | 11.00                 | 11.38 | 10.08 | -25.53          | -33.01 | -32.85 | 0.17                     |                         |                            |
| 10.80     | 20.53                   | 909.17             | 890.99 | 877.51 | 10.89                 | 11.20 | 10.01 | -25.75          | -33.87 | -33.19 | 0.21                     |                         |                            |
| 11.10     | 20.47                   | 915.57             | 897.13 | 883.53 | 10.78                 | 11.05 | 10.05 | -26.06          | -34.58 | -32.64 | 0.22                     |                         |                            |
| 11.40     | 20.73                   | 921.98             | 903.35 | 889.63 | 10.88                 | 10.86 | 10.02 | -26.42          | -35.01 | -33.59 | 0.24                     |                         |                            |
| 11.70     | 20.77                   | 928.32             | 909.58 | 895.92 | 10.98                 | 10.71 | 9.72  | -26.77          | -35.88 | -33.48 | 0.28                     |                         |                            |
| 12.00     | 20.83                   | 934.75             | 915.83 | 902.21 | 10.94                 | 10.57 | 9.49  | -27.03          | -35.39 | -33.90 | 0.33                     |                         |                            |