

Voltage Controlled Oscillator

ZX95-200+

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 | | | |
| 0.0 | 11.08 | 86.2 | 83.1 | 82.7 | 6.62 | 5.88 | 4.63 | -27.6 | -46.4 | -44.0 | 0.05 | 1 | -87 |
| 0.5 | 9.82 | 91.9 | 88.6 | 88.5 | 7.58 | 7.30 | 6.32 | -27.8 | -47.6 | -45.6 | 0.35 | 10 | -106 |
| 1.0 | 8.23 | 96.5 | 93.5 | 93.4 | 8.53 | 8.55 | 7.83 | -28.0 | -49.6 | -46.8 | 0.25 | 100 | -127 |
| 1.5 | 7.40 | 100.4 | 97.6 | 97.5 | 9.28 | 9.55 | 9.05 | -29.5 | -51.8 | -48.6 | 0.19 | 1000 | -148 |
| 2.0 | 6.99 | 104.0 | 101.3 | 101.2 | 9.59 | 9.87 | 9.48 | -34.0 | -48.6 | -49.5 | 0.17 | | |
| 2.5 | 6.76 | 107.5 | 104.8 | 104.6 | 9.75 | 10.03 | 9.70 | -39.0 | -46.2 | -50.3 | 0.16 | | |
| 3.0 | 6.67 | 110.8 | 108.2 | 108.0 | 9.85 | 10.13 | 9.83 | -39.0 | -44.8 | -51.0 | 0.16 | | |
| 3.5 | 6.67 | 114.1 | 111.5 | 111.3 | 9.90 | 10.18 | 9.92 | -35.6 | -43.9 | -51.1 | 0.15 | | |
| 4.0 | 6.75 | 117.4 | 114.9 | 114.6 | 9.94 | 10.22 | 9.97 | -33.0 | -43.3 | -51.0 | 0.14 | | |
| 4.5 | 6.89 | 120.7 | 118.2 | 117.9 | 9.96 | 10.23 | 10.00 | -31.1 | -42.6 | -51.2 | 0.14 | | |
| 5.0 | 7.09 | 124.2 | 121.7 | 121.3 | 9.98 | 10.24 | 10.02 | -29.7 | -41.8 | -51.1 | 0.14 | | |
| 5.5 | 7.33 | 127.7 | 125.2 | 124.8 | 9.99 | 10.23 | 10.02 | -28.6 | -41.0 | -50.6 | 0.14 | | |
| 6.0 | 7.59 | 131.4 | 128.9 | 128.4 | 9.99 | 10.22 | 10.01 | -27.9 | -40.7 | -50.7 | 0.14 | | |
| 6.5 | 7.87 | 135.2 | 132.7 | 132.2 | 10.00 | 10.21 | 10.00 | -27.6 | -40.3 | -50.6 | 0.15 | | |
| 7.0 | 8.10 | 139.1 | 136.6 | 136.0 | 10.00 | 10.18 | 9.97 | -27.5 | -39.8 | -51.0 | 0.16 | | |
| 7.5 | 8.33 | 143.2 | 140.7 | 140.1 | 9.99 | 10.15 | 9.94 | -27.4 | -39.5 | -51.6 | 0.18 | | |
| 8.0 | 8.53 | 147.3 | 144.8 | 144.2 | 9.98 | 10.11 | 9.90 | -27.5 | -39.3 | -51.6 | 0.20 | | |
| 8.5 | 8.65 | 151.6 | 149.1 | 148.4 | 9.96 | 10.06 | 9.85 | -27.9 | -38.9 | -52.6 | 0.22 | | |
| 9.0 | 8.82 | 155.9 | 153.4 | 152.8 | 9.93 | 10.00 | 9.78 | -28.5 | -38.6 | -53.4 | 0.24 | | |
| 9.5 | 8.90 | 160.2 | 157.8 | 157.1 | 9.89 | 9.92 | 9.70 | -29.1 | -38.3 | -54.0 | 0.26 | | |
| 10.0 | 8.93 | 164.7 | 162.3 | 161.6 | 9.84 | 9.84 | 9.62 | -29.5 | -38.1 | -55.7 | 0.26 | | |
| 10.5 | 9.04 | 169.1 | 166.8 | 166.0 | 9.78 | 9.76 | 9.54 | -29.8 | -37.6 | -56.5 | 0.26 | | |
| 11.0 | 9.19 | 173.6 | 171.3 | 170.5 | 9.73 | 9.67 | 9.44 | -30.3 | -37.4 | -56.7 | 0.27 | | |
| 11.5 | 9.26 | 178.1 | 175.9 | 175.1 | 9.65 | 9.58 | 9.34 | -30.9 | -37.2 | -56.6 | 0.25 | | |
| 12.0 | 9.41 | 182.7 | 180.5 | 179.7 | 9.57 | 9.47 | 9.23 | -31.4 | -37.2 | -56.8 | 0.23 | | |
| 12.5 | 9.62 | 187.3 | 185.2 | 184.4 | 9.49 | 9.36 | 9.11 | -31.7 | -37.4 | -56.2 | 0.23 | | |
| 13.0 | 9.81 | 192.1 | 190.0 | 189.2 | 9.38 | 9.24 | 8.99 | -32.1 | -37.2 | -55.4 | 0.23 | | |
| 13.5 | 9.96 | 197.0 | 194.9 | 194.1 | 9.26 | 9.11 | 8.86 | -32.5 | -36.8 | -53.8 | 0.23 | | |
| 14.0 | 10.16 | 202.0 | 199.9 | 199.1 | 9.14 | 8.98 | 8.71 | -32.5 | -36.9 | -52.1 | 0.26 | | |
| 14.5 | 10.29 | 207.0 | 205.0 | 204.2 | 9.03 | 8.84 | 8.56 | -31.8 | -36.6 | -50.7 | 0.31 | | |
| 15.0 | 10.29 | 212.1 | 210.1 | 209.3 | 8.89 | 8.69 | 8.40 | -30.7 | -36.3 | -49.5 | 0.35 | | |
| 15.5 | 10.19 | 217.3 | 215.3 | 214.4 | 8.74 | 8.53 | 8.24 | -29.9 | -36.6 | -49.2 | 0.39 | | |
| 16.0 | 10.03 | 222.4 | 220.4 | 219.5 | 8.58 | 8.38 | 8.06 | -29.5 | -36.8 | -48.9 | 0.46 | | |
| 16.5 | 9.72 | 227.4 | 225.4 | 224.5 | 8.42 | 8.23 | 7.89 | -29.0 | -36.9 | -49.2 | 0.52 | | |
| 17.0 | 9.72 | 232.3 | 230.2 | 229.3 | 8.27 | 8.08 | 7.72 | -28.2 | -37.2 | -49.6 | 0.55 | | |

