

## Highly linear SiGe BiCMOS LNA and mixer for cellular CDMA/AMPS applications

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V. Aparin, E. Zeisel and P. Gazzero. "Highly linear SiGe BiCMOS LNA and mixer for cellular CDMA/AMPS applications." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 129-132.

BiCMOS LNA and mixer designed for cellular CDMA/AMPS applications are described. The circuits exhibit very high linearity thanks to low-impedance low-frequency input terminations. The LNA achieves +12.2 dBm IIP3, 16.3 dB gain and 1.5 dB NF with 7.7 mA current in the high-gain high-linearity mode. The mixer achieves +14.7 dBm IIP3, 10.9 dB conversion power gain and 6.7 dB SSB NF with 8.4 mA current in the CDMA mode.

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