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[In millimetre-wave receiver design, the low-noise amplifier \(LNA\) is a critical building block that amplifies the received signal and contributes most of the noise figure of the whole receiver. The LNA design involves trade-offs between noise-figure \(NF\), gain, power dissipation, input matching, and harmonic content in the output signal.](#) [A Differential Cascode Low Noise Amplifier Based on a ...](#)

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[The proposed architecture can achieve the minimum noise figure \(NF\) over the previously reported feedback amplifiers in a CG configuration. The proposed architecture achieves broadband impedance matching, low noise, large gain, enhanced linearity, and wide bandwidth concurrently by employing an efficient and reliable dual negative-feedback. An amplifier prototype was realized in 0.18- \$\mu\$ m CMOS, operates from 1.05 to 3.05 GHz, and dissipates 12.6 mW from 1.8-V supply while occupying a 0.073-mm ...](#)

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