

Abstracts

A 2.4 GHz integrated CMOS power amplifier with micromachined inductors

Y.C. Chen, Yong Kyu Yoon, J. Laskar and M. Allen. "A 2.4 GHz integrated CMOS power amplifier with micromachined inductors." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 523-526 vol. 1.

This paper reports the development of the first 2.4 GHz monolithic-integrated CMOS power amplifier with micromachined inductors. The amplifier is implemented in a 0.24-/spl mu/m CMOS technology. The high-Q (quality factor) micromachined solenoid inductors are fabricated on the surface of the CMOS chip. For 2.5-V operation, the amplifier delivers 20-dBm output power with 31% PAE (power added efficiency) to 50-/spl Omega/ load.

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