

Abstracts

A CMOS transmit/receive IF chip-set for WCDMA mobiles

U. Dasgupta, Wooi Gan Yeoh, Chun Geik Tan, Sheng Jau Wong, H. Mori, R. Singh and M. Itoh. "A CMOS transmit/receive IF chip-set for WCDMA mobiles." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 195-198.

A transmit/receive IF chip-set integrating modulator/demodulator and AGCs for WCDMA mobiles in 0.35 μm CMOS process is presented. Circuit innovations that achieve linear-in-dB gain control for wide-dynamic range AGCs with compensation against temperature and process variations to meet stringent specifications overcoming the limitations of CMOS technology are reported.

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