HIGHLY INTEGRATED GSM TRANSCEIVER
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A 2.7V to 4.5V Single-Chip GSM Transceiver RF Integrated Circuit

THREE CELLULAR PHONE chipsets were presented in early 1995. For several years this IC, first used in a Type-approved 900MHz phone in 1996, was the only single-chip GSM RF transceiver IC that integrates the synthesizers along with the transmitter and receiver. The LNA, passive filters and PA are not included. Implemented in a 12GHz 1.5µm bipolar process, the IC includes a UHF synthesizer that settles to 0.1ppm in 0.5ms. Supply currents in transmit and receive are 60mA and 50mA, representative for the time.

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