Abstracts

A new GaAs variable gain amplifier MMIC with a wide-dynamic-range and low-voltage-operation linear attenuation circuit

M. Inamori, K. Motoyoshi, T. Kitazawa, K. Tara and M. Hagio. "A new GaAs variable gain amplifier MMIC with a wide-dynamic-range and low-voltage-operation linear attenuation circuit." 1999 Radio Frequency Integrated Circuits (RFIC) Symposium 99. (1999 [RFIC]): 39-42.

A 40 dB-dynamic-range variable gain amplifier designed for CDMA cellular phones has been developed. A wide dynamic range variable gain amplifier under low control voltage of 2.0 V compatible with high linearity and low distortion characteristics essential for CDMA is realized by the new gain control technique. It greatly contributes to the high performance and small size RF circuits of CDMA cellular handsets.

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