Abstracts

A 1.9 GHz variable gain linear power amplifier MMIC for PHS using novel cascaded MESFETs

M. Kimishima, K. Hayashi and M. Takahashi. "A 1.9 GHz variable gain linear power amplifier MMIC for PHS using novel cascaded MESFETs." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1311-1314.

A GaAs power amplifier MMIC for 1.9 GHz Japanese digital cordless phone has been developed using novel cascaded MESFETs. The MMIC exhibits a gain of 32 dB, a power added efficiency of 37% at P-1 dB of 23.6 dBm, -64 dBc adjacent channel leakage power (ACP) at 600 kHz offset with 21 dBm output, and an operating voltage of 3 V. In addition, the ACP of less than -57 dBc is obtained at gain control of 0 dB to -14 dB remaining an output power of 21 dBm.

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