

Abstracts

New type of class A/F amplifier MMIC for use in commercial PCS multiple modulation format base station power amplification

D. Helms, M. Mokalla, N. Vladimirsky, M. Testa and D. Wills. "New type of class A/F amplifier MMIC for use in commercial PCS multiple modulation format base station power amplification." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 61-64.

A modified GaAs FET class-A/F amplifier provided greatly improved linear power in concurrent multiple modulation formats. The class A/F structure suppresses the 3rd and 5th order products more than 15.8 dB and 13 dB respectively, over a typical class A/F amplifier and 17.8 dB reduced 3rd order products verses a straight class A amplifier. The amplifier has 0.3 dB gain flatness over a 10% bandwidth.

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