

Abstracts

A New Adaptive Double Envelop Feedback (ADEF) Linearizer for Mobile Radio Power Amplifiers

J.-S. Cardinal and F.M. Ghannouchi. "A New Adaptive Double Envelop Feedback (ADEF) Linearizer for Mobile Radio Power Amplifiers." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 573-576.

A new Adaptive Double Envelop Feedback (ADEF) linearizer using a voltage controllable phase shifter and a dynamic gate bias on a MESFET is developed and implemented on a class AB, one Watt amplifier. A two tone test at 1.7 GHz shows in-band intermodulation products of 40 dBc over a 10 dB dynamic range with a total two-tone power added efficiency of 32%.

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