Abstracts

A novel EER transmitter using two-point delta-sigma modulation scheme for WLAN and 3G applications

Kang-Chun Peng, Je-Kuan Jau and Tzyy-Sheng Horng. "A novel EER transmitter using two-point delta-sigma modulation scheme for WLAN and 3G applications." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1651-1654 vol.3.

A novel transmitter architecture is proposed for wireless local area networks (WLAN) and 3/sup rd/ generation (3G) mobile applications. The transmitter is based on the envelope elimination and restoration (EER) architecture applied with two-point delta-sigma modulator (TPDSM). It can integrate digital modulators and power amplifiers without mixers effectively. In addition, the power amplifier can deal with non-constant envelope modulations like QPSK highly efficiently.

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