

Title (en)

RF MODULATED CARRIER SIGNAL GENERATION WITH BANDPASS PULSE WIDTH MODULATION

Title (de)

ERZEUGUNG EINES HF-MODULIERTEN TRÄGERSIGNALS MIT BANDPASS-PULSWEITENMODULIERUNG

Title (fr)

CREATION D'UN SIGNAL DE PORTEUSE RF MODULE A BANDE PASSANTE MODULEE EN LARGEUR D'IMPULSION

Publication

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Application

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Abstract (en)

[origin: WO2007063387A2] A modulator and method for generation of a pulse width modulated carrier signal for efficient wireless transmitters for transmission of varying envelope signals is provided. Generally, the new structure of a pulse width modulator consists of serial and separate execution of the required phase and amplitude modulation processes. A first solution with single-edge pulse width modulation is disclosed in which unwanted phase shifting by the amplitude modulation process can be compensated. Further, a second solution with double-edge pulse width modulation is disclosed in which unwanted phase fluctuation by the amplitude modulation process is avoided and thus, efforts for phase correction can be reduced.

IPC 8 full level

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