Abstracts

Four channel MMIC-based transmitter module for RF/optical subcarrier multiplexed communications

Sangwoo Han, Chang-Ho Lee, B. Matinpour, J. Laskar and D.J. Blumenthal. "Four channel MMIC-based transmitter module for RF/optical subcarrier multiplexed communications." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1121-1124 vol.3.

We present a compact four channel RF/optical subcarrier multiplexed (OSCM) transmitter module based on MMIC chipsets and coupled-line filters. The module generates four subcarriers in the 5.2 to 6 GHz frequency range and supports up to 50 Mbits/s data rate per channel. We present the module design and measured bit-error-rate (BER) performance of the OSCM link. This work is the first step towards fully monolithic implementation of a multi-channel OSCM transmitter module.

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