Abstracts

Single-MMIC four-channel transmitter module for multichannel RF/optical subcarrier multiplexed communications applications

Sangwoo Han, N. Lal, Chang Ho Lee, B. Matinpour, J. Laskar and D.J. Blumenthal. "Single-MMIC four-channel transmitter module for multichannel RF/optical subcarrier multiplexed communications applications." 2002 Transactions on Microwave Theory and Techniques 50.4 (Apr. 2002 [T-MTT]): 1173-1179.

Presents a compact single monolithic microwave integrated circuit (MMIC) transmitter module for four-channel RF/optical subcarrier multiplexed (OSCM) communication applications. The developed module consists of one fully monolithic four-channel OSCM transmitter integrated circuit (IC) and four coupled-line filters. The MMIC is designed and implemented in a commercial 0.6-/spl mu/m GaAs MESFET process and five-stage coupled-line filters are fabricated for each of the four channels on the module board. The module design and bit-error-rate performance are considered. This is the first fully monolithic IC transmitter module for OSCM communications applications.

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