Abstracts

Microwave circuit design for chirp or intensity fluctuation suppression in multielectrode DFB lasers

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Realizable microstrip circuits have been designed to provide the required modulation current characteristics to suppress the chirp or intensity fluctuations occurring in a multielectrode distributed feedback laser structure under intensity or frequency modulation schemes, respectively. The designs have been performed using the combination of a commercial microwave circuit simulator and a time domain laser model. It is shown that good chirp or intensity fluctuation suppression can be achieved without significantly affecting the desired intensity or frequency modulation performance.

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