Abstracts

Injection Laser Modulation at 2 Gbit/s by Monolithic Silicon Multiplexer (Short Papers)

U. Langmann, D. Daniel and B.G. Bosch. "Injection Laser Modulation at 2 Gbit/s by Monolithic Silicon Multiplexer (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.12 (Dec. 1984 [T-MTT] (1984 Symposium Issue)): 1675-1677.

Direct laser-diode pulse-code modulation at 2 Gbit/s (NRZ) is performed by a fast Si monolithic integrated bipolar circuit (2.5-µm design rules, p-n-junction isolation, f/sub 1/ /spl ap/ 7 GHz at V/sub CE/=1 V). The current-switch output stage of a 4:1-time-division multiplexer IC feeds a modulation current swing of 8 mA into a CSP injection laser biased above threshold. Measured optical responses of the laser are reported.

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