

Abstracts

A High Speed GaAs Monolithic Transimpedance Amplifier

I. Bahl, E. Griffin, W. Powell and C. Ring. "A High Speed GaAs Monolithic Transimpedance Amplifier." 1986 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 86.1 (1986 [MCS]): 35-38.

This paper describes the design method and test results for a novel transimpedance amplifier suitable for very high speed optical communications systems. The amplifier chip is developed for four different bit rates: 188, 565, 1130, and 1500 Mb/s with optical sensitivities -38.5, -33, -30, and -28 dBm, respectively. The amplifier provides 2 V peak to peak output and 30 dB dynamic range.

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