# Abstracts

## MMIC Transimpedance Amplifier for an Optical Front-End with High Gain and Minimum Ripple (1994 [MCS])

*J.A. Casao-Perez, P. Dorta, F. Perez and J. Perez. "MMIC Transimpedance Amplifier for an Optical Front-End with High Gain and Minimum Ripple (1994 [MCS])." 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 241-244.*

In this work we present a new theoretical approach to the design of a transimpedance amplifier. The objective is to achieve a minimum ripple in the bandwidth while minimizing the noise current. The proposed method has been applied to the design of a transimpedance amplifier using GaAs monolithic technology. Measurements of the amplifier and of the built optical receiver are presented. The optical receiver has a 62.5 ± 0.75 dBoh gain in a bandwidth from 1.8 to 6.5 GHz and the equivalent noise current is lower than 16 pA/spl radic/Hz in the mentioned band.

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