Abstracts

Low Noise Wideband Fiber Optic MMIC-Based Receiver

R. Khairandish, C.M. Gee, J. Paslaski and D. Huff. "Low Noise Wideband Fiber Optic MMIC-Based Receiver." 1993 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 93.1 (1993 [MCS]): 71-74.

A low noise wideband fiberoptic MMIC-based receiver consisting of a two-stage feedback amplifier with minimum gain of 10 dB and 5 dB maximum noise figure from 6 to 15 GHz is presented. This bandwidth and noise performance represents a significant improvement over available hybrid designs. The receiver is usable up to 17 GHz. The improved RF performance is obtained by flip-chip mounting a photodiode onto the MMIC chip which minimizes the parasitic, extending bandwidth and improving noise.

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