Abstracts

Broadband GaAs Monolithic Equalizing Amplifiers for Multigigabit-Per-Second Optical Receivers

H. Kikuchi, Y. Miyagawa and T. Kimura. "Broadband GaAs Monolithic Equalizing Amplifiers for Multigigabit-Per-Second Optical Receivers." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 785-788.

A preamplifier IC, a gain controllable IC, and main amplifier lCs with and without a three-way divider for multigigabit-per-second optical receivers have been developed using a single-ended feedback circuit, two peaking techniques, and advanced GaAs process technology. These ICs have a 3-dB bandwith of more than 5 GHz and can be applied to optical receivers transmitting NRZ signals in excess of 7 Gb/s.

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