Abstracts

Design and Performance of Wideband GaAs MMIC's for High-Speed Optical Communication Systems

Y. Imai, E. Sano and K. Asai. "Design and Performance of Wideband GaAs MMIC's for High-Speed Optical Communication Systems." 1992 Transactions on Microwave Theory and Techniques 40.2 (Feb. 1992 [T-MTT]): 185-190.

Advanced design techniques for GaAs wideband direct-coupled amplifiers are described. The amplifier achieved a 20-dB gain with a 3-dB bandwidth of 13 GHz arnd 5-7-dB noise figure. An equalizing amplifier module consisting of amplifier and variable attenuator MMIC's exhibited a high gain of 43 dB over a 10-GHz band with a controllable gain of 20-43 dB.

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