Abstracts

A 10 Gb/s Optical Heterodyne Detection Experiment Using a 23GHz Bandwidth Balanced Receiver (1990 Vol. I [MWSYM])

N. Takachio, K.J. Washita, S. Hata, K. Katsura, K. Onodera and H. Kikuchi. "A 10 Gb/s Optical Heterodyne Detection Experiment Using a 23GHz Bandwidth Balanced Receiver (1990 Vol. I [MWSYM])." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 149-151.

A 0.5-30GHz GaAs MESFET monolithic distributed amplifier using coplanar waveguides and a wideband InGaAs twin pin photodiode are fabricated. A wideband balanced optical receiver is fabricated by connecting these devices using the solder bump flip-chip technique to reduce parasitic inductance and capacitance. A 10 Gb/s optical CPFSK heterodyne detection experiment is conducted using the receiver.

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