

Abstracts

Demonstration of Photonically-Controlled GaAs Digital/MMIC for RF Optical Links

A. Brunel, S.-L.G. Chu, S.E. Davis, A. Kelsey, M. O'Connell, J.A. Ruiz, R.C. Sharp, I.W. Smith and K. Tabatabaie-Alavi. "Demonstration of Photonically-Controlled GaAs Digital/MMIC for RF Optical Links." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1283-1285.

We report design, fabrication, and test of a monolithic GaAs IC implementing a broadband optically-driven digital/analog RF interface. The circuit operates in an asynchronous mode to detect AM digital and RF on a single optical fiber input, control RF level, and transmit the RF to the output.

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