

Abstracts

A Distributed Optical Receiver Preamplifier with Unequal Gate/Drain Impedances (1995 Vol. I [MWSYM])

I. Darwazeh, P. Moreira, A. Borjak and J. O'Reilly. "A Distributed Optical Receiver Preamplifier with Unequal Gate/Drain Impedances (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 219-222.

A near dc to 16.4 GHz wide band distributed amplifier, constructed using a 20 GHz MMIC GaAs process and optimised to operate as an optical receiver front end preamplifier, has been designed, realised and tested at 10 Gbit/s. The design uses a 75 Ohm gate line impedance to maximise the overall transimpedance gain without introducing severe bandwidth restriction.

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