Abstracts

An Optical Photo-Detector Using a Distributed Amplifier and P-I-N Photodiode Combination

J.Y. Liang and C.S. Aitchison. "An Optical Photo-Detector Using a Distributed Amplifier and P-I-N Photodiode Combination." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1101-1104.

A new high speed photodetector has been fabricated by using a distributed amplifier and p-i-n photodiode combination. A 3dB bandwidth of 17GHz was achieved. The noise level and detection sensitivity have been measured and an average input noise current of 20pA/Hz/sup 1/2/ was achieved. This corresponds to an optical sensitivity of -21dBm.

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