# Abstracts

## The Noise Performance of 20 GHz Optical Receivers Using a Distributed Amplifier and P-I-N Photodiode Combination with Matched and Unmatched Input Terminations

*J.Y. Liang and C.S. Aitchison. "The Noise Performance of 20 GHz Optical Receivers Using a Distributed Amplifier and P-I-N Photodiode Combination with Matched and Unmatched Input Terminations." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 903-906.*

High speed optical receivers have been fabricated by using p-i-n diode and distributed amplifier combinations. The preliminary experimental results show that the +/-3dB bandwidth from 1 GHz to 20 GHz was achieved for both input matched and unmatched configurations, while the later reduced the average equivalent input noise to nearly half the value of the former.

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