

Abstracts

A 100-KHz - 22-GHz Instrumentation Photoreceiver

D.J. Derickson, C.M. Miller and R.L. Van Tuyl. "A 100-KHz - 22-GHz Instrumentation Photoreceiver." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 1063-1066.

A photoreceiver consisting of a high speed PIN photodetector, and a 100-kHz to 22-GHz distributed amplifier is described. Photoreceiver calibration is accomplished by optical heterodyne techniques. The photoreceiver is used with a microwave spectrum analyzer to achieve -65-dBm (optical) sensitivity at 1300-nm and 1550-nm wavelengths.

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