

Microwave Characteristics of GaAs MMIC Integratable Optical Detectors

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Interdigitated photoconductive detectors have been fabricated on microwave device structures, making them easily integratable with MMIC's. Detector responsivity as high as 2.5 A/W and an external quantum efficiency of 3.81 were measured. Response speed was nearly independent of electrode geometry, and all detectors had usable response at frequencies to 6 GHz. A small signal model of the detectors based on microwave measurements is also developed.

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