Abstracts

Distributed velocity-matched 1.55 /spl mu/m InP travelling-wave photodetector for generation of high millimeterwave signal power

M. Alles, U. Auer, F.-J. Tegude and D. Jager. "Distributed velocity-matched 1.55 /spl mu/m InP travelling-wave photodetector for generation of high millimeterwave signal power." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1233-1236.

A novel travelling-wave (TW) photo-detector for operation at 1.3/1.55 /spl mu/m is fabricated using InP MMIC technology. The results of an optoelectronic simulation are discussed, where photoconductivity effects and phase-matching due to slow-wave effects are included. Theoretical and experimental results of power conversion efficiencies are finally presented.

❑ Return to main document.