Abstracts

High-Performance GaAs/AlGaAs Optical Phase Modulators for Microwave Photonic Integrated Circuits

V.M. Hietala, S.H. Kravitz, M.G. Armendariz, G.A. Vawter and R.F. Carson. "High-Performance GaAs/AlGaAs Optical Phase Modulators for Microwave Photonic Integrated Circuits." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1497-1500.

A high-performance high-speed optical phase modulator for photonic integrated circuit (PIC) use is described. Integration of these optical phase modulators into a real system (COMPASS) is also discussed. The optical phase modulators are based on depletion-edge translation and have experimentally provided optical phase shifts in excess of 60°/V·mm with approximately 4 dB/cm loss while simultaneously demonstrating bandwidths in excess of 10 GHz.

❑ Return to main document.