

Abstracts

Electrooptic Polarization Modulation in Multielectrode Al_xGa_{1-x}As Rib Waveguides

F.K. Reinhart, R.A. Logan and W.R. Sinclair. "Electrooptic Polarization Modulation in Multielectrode Al_xGa_{1-x}As Rib Waveguides." 1982 Transactions on Microwave Theory and Techniques 30.4 (Apr. 1982 [T-MTT] (Joint Special Issue on Optical Guided Wave Technology)): 609-612.

A single mode rib waveguide (RWG) polarization modulator is described with a measured extinction ratio ~ 27 dB, a power conversion ~ 0.99 , and a switching voltage of 12.5 V at $\lambda = 1.064 \mu\text{m}$. The modulator is based on a modified step delta beta-reversal configuration. Contact with CdO and an Au overlay ensures low optical losses ($\sim 1 \text{ cm}^{-1}$) for both polarizations.

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