

Abstracts

Electrooptic Polarization Modulation in Multielectrode Al/sub x/Ga/sub 1-x/As Rib Waveguides

F.K. Reinhart, R.A. Logan and W.R. Sinclair. "Electrooptic Polarization Modulation in Multielectrode Al/sub x/Ga/sub 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 /spl gsim/27 dB, a power conversion /spl ap/0.99, and a switching voltage of 12.5 V at /spl lambda/ = 1.064 μ m. The modulator is based on a modified step delta beta-reversal configuration. Contact with CdO and an Au overlay ensures low optical losses (/spl lsim/1 cm/sup -1/) for both polarizations.

 [Return to main document.](#)