Abstracts

Ridge Coplanar Waveguide for Optical Amplitude Modulation

W.A. Artuzi, Jr. and T. Yoneyama. "Ridge Coplanar Waveguide for Optical Amplitude Modulation." 1996 Transactions on Microwave Theory and Techniques 44.10 (Oct. 1996, Part I [T-MTT]): 1675-1678.

A novel structure called ridge coplanar waveguide is proposed for Mach-Zhender optical modulator. Numerical modeling using a two-dimensional finite-difference time-domain (2D-FDTD) algorithm has shown that a ridge coplanar waveguide on Y-cut LiNbO/sub 3/ substrate without SiO/sub 2/ buffer layer yields very high efficiency of modulation over a wide frequency bandwidth.

❑ Return to main document.