Abstracts

Wide bandwidth traveling-wave InGaAsP/InP electroabsorption modulator for millimeter wave applications

G.L. Li, S.A. Pappert, C.K. Sun, W.S.C. Chang and P.K.L. Yu. "Wide bandwidth traveling-wave InGaAsP/InP electroabsorption modulator for millimeter wave applications." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 61-64 vol.1.

Traveling wave electroabsorption modulators (TW-EAMs) can provide large modulation bandwidth and high efficiency features for both analog and digital fiber-optic links. Here, high efficiency TW-EAMs with modulation bandwidths in excess of 40 GHz have been demonstrated. Observing the predicted bandwidth reduction for counter-propagating optical and microwave fields along the waveguide has validated the traveling-wave nature of the modulator.

❑ Return to main document.