

Ultra Wide Electrical Bandwidth GaAs/AlGaAs Electrooptic Modulators

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A high speed GaAs/AlGaAs traveling wave Mach-Zehnder electrooptic modulator has been fabricated. The device uses a novel slow wave electrode design to achieve phase velocity matching and has a measured electrical bandwidth greater than 40 GHz. An improved electrode design has been characterized and is currently being integrated into a modulator to increase the bandwidth further.

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