

## Optical Modulator Based On Gaas Photonic Crystals Spie

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### Optical Modulator Based On Gaas

In this letter, we propose a novel optical modulator based on GaAs photonic crystals and investigate its optically properties numerically by using the finite-difference time-domain method. The position of the cutoff frequency can be varied by free carriers injection, and the band gap shift can be observed. Band gap shift is used to modulate light.

### Optical modulator based on GaAs photonic crystals

Electro-Optic Mode Converter. The Versawave 40 & 50 Gb/s Amplitude Modulators represent a revolutionary method for modulating CW laser light into data carrying optical pulse trains. By employing proprietary GaAs technology, the Versawave modulators establish new benchmarks for low drive voltage, ultra-wide bandwidth, and chirp-free operation within a small footprint.

### Amplitude Modulators | Versawave Technologies

Optical modulator based on GaAs photonic crystals Optical modulator based on GaAs photonic crystals Li, Jiusheng 2005-11-24 00:00:00 In this letter, we propose a novel optical modulator based on GaAs photonic crystals and investigate its optically properties numerically by using the finite-difference time-domain method. The position of the cutoff frequency can be varied by free carriers ...

### Optical modulator based on GaAs photonic crystals ...

The aXSD2050 is a compact, high-performance electro-optic IQ modulator based on gallium arsenide (GaAs) guided-wave technology. It is ideal for applications where space and weight are at a premium: e.g. QPSK and QAM encoding up to 60Gbd, single-sideband modulation or RF mixing up to 60GHz.

### Products - Optical Modulators - Axenic Ltd

This RoF transmission system configuration deploys dual parallel Gallium Arsenide (GaAs) Mach Zehnder Modulator as a photonic mixer, and a single laser source as a Brillouin pump and as an optical...

### Optimized Gallium Arsenide Modulators for Advanced ...

structure based on GaAs/AIAs. Due to the simultaneously inverted band structures for light and phonons, colocalized interface modes for both 1.34 eV photons and 18 GHz phonons appear. We experimentally validated the concept by optical reflectivity and coherent phonon generation and detection.

### Topological optical and phononic interface mode by ...

35GHz, 3V GaAs MZ Modulator based on ground-strapped CPW coplanar system. This MZM adopts the industry-standard OIF (Optical Internetworking Forum) layout, designed primarily for lithium niobate (LN) modulators. Lithium niobate waveguides are weakly confining and consequently cannot implement low-loss small-radius bends.

### Electro-optic modulators for space using gallium arsenide

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Thorlabs' selection of electro-optic (EO) modulators includes free-space and fiber-coupled LiNbO<sub>3</sub> modulators. Free-space amplitude, phase, or resonant modulators can operate at speeds up to 100 MHz. We also offer liquid crystal EO modulators for speeds up to 2.5 kHz. Fiber-coupled intensity, phase, or IQ modulators for speeds up to 40 GHz can be driven by our EO modulator drivers.

## Electro-Optic Modulators - Thorlabs

Modulators based on resonators such as Si microrings, can be achieved at a similar footprint 12 but their optical bandwidths are usually in the ~100 pm range. Combining the techniques from electro

...

## Ultracompact (3 μm) silicon slow-light optical modulator ...

An acousto-optic modulator (AOM), also called a Bragg cell or an acousto-optic deflector (AOD), uses the acousto-optic effect to diffract and shift the frequency of light using sound waves (usually at radio-frequency). They are used in lasers for Q-switching, telecommunications for signal modulation, and in spectroscopy for frequency control. A piezoelectric transducer is attached to a material ...

## Acousto-optic modulator - Wikipedia

MACOM has a large portfolio of optical modulator drivers for applications covering distances of hundreds of meters up to thousands of kilometers at data rates from 1 Gbps up to 100 Gbps and beyond. This includes drivers for high performance Mach-Zehnder modulators, externally modulated lasers (EML) and directly modulated lasers (DML).

## MACOM Optical Laser Modulator Drivers

Electro-optic modulator. from THORLABS; 40 Gbit/s Phase Modulator The 40 Gbit/s Phase Modulator is a high performance, low drive voltage External Optical Modulator designed for customers developing next generation 40G transmission systems. The increased bandwidth allows for chirp control in high-speed data communications.

## Optical modulators using semiconductor nano-structures ...

As an example, we determine the phase modulation efficiency and residual amplitude modulation for both the TE and TM modes of a GaAs chip-based phase modulator at the wavelength of 1064 nm. From the results of these measurements, we estimate the linear and quadratic electro-optic coefficients for a P-p-n-N GaAs/AlGaAs double heterostructure.

## Method for in-depth characterization of electro-optic ...

Versawave has developed and launched a 40 Gb/s modulator for fiber optic applications. Versawave's modulation components employ a GaAs (Gallium-Arsenide) based substrate using a patented configuration of slow-wave electrodes for mode conversion.

## About | Versawave Technologies

Optical Design Specialising in semiconductor design including GaAs and InP, packaging and test and measurement; aXenic have the flexibility to offer you everything from a custom device design and prototyping solution to a fully qualified production run.

## Optical Modulators - Axenic Ltd

Graphene resting on a silicon-on-insulator platform offers great potential for optoelectronic devices. In the paper, we demonstrate all-optical modulation on the graphene-silicon hybrid waveguides (GSHWs) with tens of micrometers in length. Owing to strong interaction between graphene and silicon strip waveguides with compact light confinement, the modulation depth reaches 22.7% with a ...

## OSA | CMOS-compatible all-optical modulator based on the ...

A novel GaAs-AlGaAs electrooptic modulator utilizing push-pull metal electrodes was fabricated using substrate removal techniques and polymer integration. The scheme enables a significant drive...

## (PDF) Substrate removed GaAs-AlGaAs electrooptic modulators

In this design, optical mode is entirely contained within the core and claddings and there is no mode interaction with heavily doped GaAs layers as well as the buffer layers and Si substrate.

## Download File PDF Optical Modulator Based On GaAs Photonic Crystals Spie

Electrically the optical waveguide doping profile is n-p-n which is equivalent to back to back diodes connected in series. Top diode consists of n<sup>+</sup>-GaAs/n-Al

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