

VOA Attenuator Silicon Photonics



Overview

In this paper, we propose a 16-channel VOA based on a polymer/silica hybrid waveguide with low power consumption and a broadband property. The VOA unit consists of two broadband conventional multimode interferences (MMIs) and connecting waveguides. With the capacity increasing dramatically, a large-port-count and low-power-consumption VOA array is urgent for. We propose and demonstrate a polarization-insensitive silicon photonic variable optical attenuator. By embedding a short PIN junction length of 200 m into the waveguide, the fabricated VOA exhibits a high modulation depth of 40. 2 V and has. Fast attenuation speed with low insertion loss and built-in power monitoring. Extremely compact, cost-effective variable optical attenuators designed for streamlined testing and characterization of optical. □□ For purchasing, use the RP Photonics Buyer's Guide for optical attenuators.

Article Content

Low-Power-Consumption and Broadband 16-Channel Variable Optical

In this paper, we experimentally demonstrate a 16-channel VOA array based on a polymer/silica hybrid waveguide. The proposed array is able to work over C and L bands. The VOA

C-Band and O-Band Silicon Photonic Based Low-Power Variable

We propose and experimentally demonstrate low-power and broadband variable optical attenuators (VOAs) on the silicon photonics platform. The VOAs are based on a Mach-Zehnder interferometer

Polarization-Insensitive Silicon Photonic Variable

We propose and demonstrate a polarization-insensitive silicon photonic variable optical attenuator. The designed device uses a two

TDFA-Band Silicon Optical Variable Attenuator

In this paper, we demonstrate high-speed TDFA-band VOAs based on a 220-nm SOI platform utilizing carrier injection and free-carrier absorption effect. By embedding the PIN junction into the waveguide,

Variable optical attenuators

MEMS-based variable optical attenuator with fast attenuation speed, low insertion loss and in-built power meter. Its advanced power stabilization function lets you

Optical Attenuators – fixed, variable, VOA, high-power,

Optical attenuators are devices which can reduce the optical power e.g. of a light beam. Some types provide variable attenuation.

Silicon photonic MEMS variable optical attenuator

We present a design for an on-chip MEMS-actuated Variable Optical Attenuator (VOA) based on Silicon Photonic MEMS technology. The VOA consists of 30 individual mechanically

Design and optimization of an SOI-based electro-absorption-type VOA

A silicon-on-insulator (SOI) variable optical attenuator (VOA) based on the plasma dispersion effect is optimized and realized, and the effects of doping concentration and distance about the VOA's

Variable Optical Attenuators

Variable optical attenuators, used in fiber communications, vary light attenuation. The article discusses operation principles and various performance parameters.

Silicon thermo-optic variable optical attenuators based on

We experimentally demonstrate silicon variable optical attenuators (VOAs) based on thermally tunable Mach-Zehnder interferometers (MZIs). Thermo-optic tuning is enabled by a silicon

Low-Power-Consumption and Broadband 16-Channel Variable Optical

A variable optical attenuator (VOA) is a crucial component for optical communication, especially for a variable multiplexer (VMUX) and reconfigurable optical add-drop multiplexer

Fiber Optic Attenuators

223 Fiber Optic Attenuators from 16 manufacturers listed on GoPhotonics. Search by specification. Selected filters - Country : global, Fiber Mode : Multi Mode, Page-1

Polarization-Insensitive Silicon Photonic Variable Optical Attenuator

We propose and demonstrate a polarization-insensitive silicon photonic variable optical attenuator. The designed device uses a two-dimensional apodized grating coupler as a surface

Variable optical attenuator based on photonic crystal waveguide with ...

variable optical attenuator (VOA) is an essential device in a photonic integrated circuit (PIC) for channel power equalizing in wavelength division multiplex technology. The VOA function can be achieved by

Variable Optical Attenuator

Kotura's variable optical attenuator was the first silicon photonics-based product to be shipped in volume. A variable optical attenuator is used to trim a fiber's optical signal power levels.

TDFA-Band Silicon Optical Variable Attenuator

These results promote the 2- μ m waveband silicon photonic integration and are expected to the future use of photonic attenuators in crosstalk suppression, optical modulation, and optical channel

Compact silicon photonic resonance-assisted variable optical attenuator

Abstract: A two-part silicon photonic variable optical attenuator is demonstrated in a compact footprint which can provide a high extinction ratio at wavelengths between 1520 nm and 1620 nm. The device

Monolithically Integrated VOA-MUX with Power Monitors based on

We present a monolithically integrated silicon-photonics 10-channel VOA-MUX (variable optical attenuators with multiplexing filters) with on-chip power monitors. The VOAMUX has a channel

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

