

Tunable Optical Attenuator



Overview

Data Sheet The Lumentum agile optical components family includes modulators, switches, attenuators and tunable filters. These products provide the basis for spectrally efficient DWDM transmission utilizing dispersion tolerant modul. Data Sheet The Lumentum agile optical components family includes modulators, switches, attenuators and tunable filters. These products provide the basis for spectrally efficient DWDM transmission utilizing dispersion tolerant modulation, channel monitoring, wavelength switching, remote power control and dynamic channel selection. They support a wid. Low polarization dependence Insensitive to vibration and electrostatic discharge (ESD) Extremely low wavelength dependence over C and/or L bands Multiple devices easily packaged into common housing Available in both normally open and normally closed states Available in three different packages Power equalization in multi-channel, optically amplified networks Gain-tilt control in erbium doped fiber amplifiers (EDFAs) Power control into narrowband wavelength division multiplexers (WDMs) and configurable networks Photoreceiver trimming Receiver protection/switch during transmitter turn-ons For more information on this or other products and their availability, please contact your local Lumentum account manager or Lumentum directly at customer.service@lumentum.com.

Article Content

Sep 19, 2025

MEMS-based metamaterial grating waveguide for tunable optical ...

This proposed design of MGW provides a useful approach for variable optical attenuating, optical switching, wavelength tuning, and sensing applications in the IR spectrum range.

Aug 02, 2025

MEMS Variable Optical Attenuators

The Lumentum agile optical components family includes modulators, switches, attenuators and tunable filters. These products provide the basis for spectrally efficient DWDM transmission utilizing

Sep 20, 2025

Design of Optical MEMS based Tunable Variable Optical Attenuator

A thin film of Gold (Au ; refractive index of 1.1786) held by a cantilever beam which is driven by a voltage actuator has been investigated for implementation of

Jun 24, 2026

MEMS Variable Optical Attenuators

They support a wide range of flexible functionalities at lower operational expenses for the agile optical network (AON). In addition, Lumentum offers a complete line of

Dec 02, 2025

A miniaturized tunable optical attenuator with ultrawide bandwidth ...

A miniaturized tunable optical attenuator with ultrawide bandwidth based on evanescent-field coupling between nanofibers Changjiang Fan 1, Yunfei Zhang 1, Jianbin Zhang 2, Lijun Guo 1, Mengwei ...

May 06, 2026

Polymeric tunable optical attenuator for power regulator in WDM system

In this paper, we have fabricated a tunable optical attenuator (TOA) based on thermo-optical cutoff modulators in polymers. For the cutoff modulator, a tapered waveguide was employed

Jan 16, 2026

Variable optical attenuator | OSICS ATN | EXFO

EXFO's OSICS ATN, a high-powered variable optical attenuator, can be used to equalize channels and reach low power levels without modifying (SNR) signal-to

Dec 16, 2025

Tunable optical attenuators: Precisely control the power of light

Tunable optical attenuator, as an indispensable key component in optical fiber communication systems, its core function is to accurately adjust the attenuation of optical signals. Through electronic control or

May 23, 2026

Low threshold optical attenuator based on electrically tunable liquid ...

The fabrication methods were also complicated and expensive as compared to conventional photolithography. The low threshold voltage and low fabrication cost are the critical

Dec 10, 2025

Tunable fiber attenuator for electrically wet-driven micromirrors

Herein we report an electronically controlled tunable fiber-optic attenuator that leverages the microfluidic electro-wetting effect, which enables a fine-tuning of the solid-liquid interface wetting

Aug 30, 2025

Programmable Optical Attenuator-DIMENSION

The tunable attenuator plays a key role in the BER test and receiving sensitivity test of the optical module. It simulates different channel conditions by precisely controlling the input optical power to

Aug 11, 2025

Tunable Loss Reflectionless Filtering Attenuator With Ultrawide ...

In this letter, a novel tunable loss reflectionless filtering attenuator with ultrawide bandwidth and extended tunable attenuation range is proposed for the first time. The ultrawide bandwidth

Aug 05, 2025

MEMS Variable Optical Attenuators

The MEMS attenuator design achieves highly repeatable optical attenuation over C and/or L bands through a thermally-actuated reflective vane that intercepts light.

Sep 01, 2025

Tajikistan intelligent optical attenuator factory Munich ...

All Companies and suppliers for tajikistan-intelligent-optical-attenuator-factory Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

Jul 08, 2025

Optical Attenuators | santec

Our Optical Attenuators enable precise optical power control featuring ± 0.01 dB repeatability and up to 100dB dynamic range.

May 16, 2026

Variable Attenuator-integrated Optical Tunable Filter

Overview The MTF-VOA is an integrated optical component that combines a variable optical attenuator (VOA) and a tunable optical filter (MTF), based on our proprietary electrostatic MEMS technology. It

Feb 18, 2026

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

Nov 21, 2025

Fiber-optic tunable multiwavelength variable attenuator and routing ...

A compact fiber-coupled bulk acousto-optical multiwavelength variable optical attenuator module design that uses a retroreflective double-pass geometry within a single bulk acousto-optic tunable filter

Feb 24, 2026

A miniaturized tunable optical attenuator with ultrawide bandwidth ...

We propose a novel miniaturized optical attenuator based on the evanescent-field coupling between two nanofibers. Benefiting from a wavelength-dependent waveguiding property of

Mar 24, 2026

(PDF) A miniaturized tunable optical attenuator with ultrawide ...

Based on the macro-bending loss of optical fibers, we present a wavy fiber attenuator where the attenuation level can be controlled by a mechanical-induced buckling of the fiber.

Jan 28, 2026

Electronic Variable Optical Attenuators, Voltage

Thorlabs' Fiber-Coupled Electronic Variable Optical Attenuators (VOAs) are microelectromechanical system (MEMS) based devices that provide attenuation

Feb 25, 2026

Attenuators | OZ Optics Ltd.

OZ Optics offers a broad range of both variable and fixed attenuators having key competitive advantages. All of our attenuators operate over the two standard wavelength bands, the C-Band and

Oct 08, 2025

Wavelength-tunable variable fiber-optic attenuator using liquid-Crystal ...

Fiber-optic module is proposed using a hybrid liquid-crystal (LC)-mirror mechanics beam control mechanism that provides the dual functions of optical attenuation controls and wavelength selection

Nov 20, 2025

A miniaturized tunable optical attenuator with ultrawide bandwidth ...

We propose a novel miniaturized optical attenuator based on the evanescent-field coupling between two nanofibers.

Contact Us

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