

Optical Adjustable Attenuator Manufacturer



Overview

This section provides an overview for optical attenuators as well as their applications and principles.

Key Takeaways

Leading manufacturers of adjustable optical attenuators include Viavi Solutions, DiCon Fiber optics, Agiltron, Thorlabs, and EKSMA Optics, offering both manual and motorized variable attenuators for diverse applications. Key Manufacturers and Offerings



Viavi Solutions, Inc. – Based in Arizona, USA, Viavi provides a full range of optical attenuators, including variable optical attenuators (VOAs) for field, lab, and manufacturing environments. Their products support singlemode and multimode fibers and are designed for installation, maintenance, and photonic-layer testing applications . DiCon Fiberoptics – Located in Richmond, California, DiCon manufactures fiber optic components including VOAs, optical switches, and passive components. Their variable attenuators are suitable for telecom, data center, and industrial applications, with options for precise power control . Agiltron – Agiltron offers high-performance optical and electro-optical products, including adjustable attenuators. They provide both manual and motorized VOAs, serving sectors such as aerospace, defense, communications, and life sciences. Agiltron emphasizes precision, reliability, and ISO 9001-certified quality . Thorlabs – Thorlabs supplies a wide variety of VOAs for single mode (SM), polarization-maintaining (PM), and multimode (MM) fibers. Their products include electronic VOAs with FC/PC or FC/APC connectors, as well as manual VOAs for lab and industrial use . EKSMA Optics – Specializes in variable attenuators for linearly polarized laser beams, including Nd-host lasers and femtosecond broadband applications. They offer both manual and motorized versions, highly customizable for laboratory and high-power laser applications .

Additional Considerations

- **Manual vs. Motorized:** Motorized VOAs allow remote or automated control, ideal for high-power or precision applications, while manual VOAs are simpler and cost-effective for lab setups.
- **Wavelength Range:** Ensure the attenuator supports the specific wavelength of your laser or fiber-optic system.
- **Connector Types:** Common connectors include FC/PC, FC/APC, LC, SC, and SMA, depending on fiber type and system requirements.
- **High-Power Applications:** Some manufacturers, like EKSMA Optics and LASEROPTIK, provide attenuators designed for high-power laser diagnostics and industrial use . These manufacturers represent a reliable starting point for sourcing adjustable optical attenuators for research, industrial, or telecom applications.

Article Content

Attenuators | Fibertronics, Inc.

Our male-to-female buildout optical attenuation (Pads) are available across all fiber modes, featuring LC, LC/APC, SC, SC/APC, FC,

23 Optical Attenuator Manufacturers in 2026

This section provides an overview for optical attenuators as well as their applications and principles. Also, please take a look at the

Attenuators

VIAVI offers the industry's most complete range of optical attenuators for installation and maintenance of singlemode and multimode

Fiber Optic Attenuators

Thorlabs has a wide variety of single mode (SM), polarization-maintaining (PM), or multimode (MM) fixed and variable optical

Fiber Attenuators

Product PortfolioAMS Technologies carries a broad range of fiber attenuators that provide fixed or variable attenuation of optical

Fiber Optic Attenuators Manufacturers and Suppliers in the

Manufacturer of standard and custom fiber optic attenuators. Types of attenuators include in-line male to female, in-line cable,

Optical Attenuators

Optical attenuators are usually of two types: fixed attenuation or adjustable attenuation. Fixed attenuation value optical attenuator

Variable Optical Attenuators

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

Variable Optical Attenuator manufacturers, China Variable Optical ...

Find Variable Optical Attenuator manufacturers from China. Import quality Variable Optical Attenuator supplied by experienced

Attenuators | Fibertronics, Inc.

Fiber optic attenuators available for use in single mode 9/125, multimode 50/125 and multimode 62.5/125 applications. We also offer

Optical Attenuators, Fixed & Variable Available

FS fixed and variable fiber optic attenuators with leading attenuating fibers guarantee consistent and stable fiber attenuation

Fiber Optic Attenuators

Fiber optic attenuators are used in the fiber optic links to reduce the optical power at a certain level. We supply various kinds of fiber

Fiber Optical Variable Attenuators

We offer the industry's most extensive selection of fiber variable optical attenuators (VOAs), addressing all application scenarios with

Fiber Optic Attenuators — Fixed & Variable | TTI Fiber

For applications requiring adjustable signal control, our variable optical attenuators (VOAs) offer continuously tunable attenuation

Fiber Optic Attenuators | Optoelectronics | DigiKey

Shop DigiKey's large in-stock selection of Fiber Optic Attenuators. View inventory, pricing and order now for same day shipping!

Variable Fiber Optic Attenuator — Adjustable | TTI

TTI Fiber is a professional fiber optic manufacturer based in Shenzhen, China. We provide full OEM/ODM services with factory-direct

Optical Attenuators | Keysight

Keysight attenuators offer low insertion loss, low polarization-dependent loss (PDL), and high resolution across a wide attenuation

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