Adjustable optical attenuators are supplied by manufacturers

Overview

This buyer''s guide for optical attenuators provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Key Takeaways

Leading manufacturers of adjustable optical attenuators include Viavi Solutions, DiCon Fiberoptics, 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.

Di

Con 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.

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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.

EKSM

A 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

Optical Attenuators – Buyer''s Guide & Supplier List | RP Photonics

This buyer''s guide for optical attenuators provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Attenuators | Suppliers | Photonics Buyers'' Guide | Photonics

Manufacturer of thin-film pellicles for use as beamsplitters, beam combiners, attenuators, filters, and optical windows. Standard items, uncoated and coated, are available from inventory; special frames,

Attenuators

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Attenuators from VIAVI offer a complete range of power-balancing options, from fixed to variable optical attenuators in field, lab, and manufacturing environments.

Optical Attenuators | Keysight

Rapid attenuation adjustment improves test throughput and responsiveness for automated applications with quick signal level changes. Delivers highly repeatable attenuation settings over thousands of

Attenuators | Fibertronics, Inc.

Fibertronics, Inc. provides an extensive selection of fiber optic attenuators tailored to meet diverse needs. These attenuators are suitable for use in single mode 9/125, multimode 50/125, and

Variable attenuators

Single-mode and Multimode Variable Attenuator (VOA) can precisely add attenuation to four, eight or sixteen different optical paths; a Self-Adjusting mode is also available, which automatically monitors

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

A variable optical attenuator (VOA) is a device where the degree of light attenuation can be adjusted, for example with a manual knob or an electronic signal. If the

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 list of 23 optical attenuator manufacturers and their company rankings.

Optical attenuator

Fixed optical attenuators used in fiber optic systems may use a variety of principles for their functioning. Preferred attenuators use either doped fibers, or mis-aligned splices, or total power since both of

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

Variable Optical Attenuators

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

The Ultimate Guide to Fiber Optic Attenuators

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Fiber optic attenuators play a crucial role in managing and controlling the power levels of optical signals in fiber optic networks. They are passive

Fiber Attenuators

Product PortfolioAMS Technologies carries a broad range of fiber attenuators that provide fixed or variable attenuation of optical signals in optical fibers. Variable attenuators are available for manual

Optical attenuator | Description, Example & Application

Optical attenuation is required in a variety of applications, such as in fiber optic testing, optical sensors, and biomedical imaging. Optical attenuators can be passive or active. Passive

Everything You Need to Know About Fiber Attenuators

Variable Optical Attenuators: A Variable Optical Attenuator (VOA) allows for adjustable attenuation levels. This makes them versatile and suited for

Fiber Optic Attenuators

Variable fiber optic attenuators are with adjustable attenuation range. There are also attenuation fiber optic patch cables available, their function is same as attenuators and are used inline.

The Ultimate Guide to Fibre Optic Attenuators

Optronics® is one of the few global manufacturers who have developed a process of quality manufacturing and inspection to meet the stringent specification of the premium optical fibre

Optical Attenuators | Precision, Types & Applications

Variable Optical Attenuators (VOAs): VOAs offer adjustable attenuation levels, allowing for precise control over the signal intensity. This

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