

Optical Attenuator Brands



Overview

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

Key Takeaways

Top manufacturers of optical attenuators include Viavi Solutions, DiCon Fiberoptics, ARCoOptix, Santec, and EXFO, known for high-quality fixed and variable attenuators suitable for professional and industrial applications. Leading Manufacturers

Viavi Solutions, Inc. – Recognized for precision optical attenuators, Viavi provides both fixed and variable types suitable for fiber-optic networks, CATV systems, and WDM applications, ensuring reliable signal attenuation and receiver protection .
DiCon Fiberoptics – Offers a wide range of fiber-optic attenuators, including high-performance variable attenuators for laboratory and industrial use. Their products are known for low insertion loss and high repeatability .
ARCoOptix S.A. – Specializes in tunable and variable optical attenuators with precise control over attenuation levels, ideal for research and high-end optical communication systems .
Santec – Provides a broad portfolio of optical devices, including attenuators for testing and measurement. Santec's attenuators are highly customizable, supporting various wavelengths and connector types, and are widely used in optical testing and network monitoring .
EXFO – Known for optical test equipment, EXFO also manufactures attenuators integrated into their testing solutions, offering reliable performance for network diagnostics and laboratory applications .

Key Considerations When Choosing an Optical Attenuator

- **Type:** Fixed attenuators provide a constant loss, while variable attenuators allow adjustable attenuation for testing or dynamic network conditions .
- **Fiber Compatibility:** Ensure the attenuator matches single-mode or multimode fiber types.
- **Connector Type:** Common connectors include LC, SC, ST, FC, and MTP/MPO; compatibility is essential for seamless integration .
- **Wavelength Range:** Select attenuators optimized for your operating wavelength to maintain signal integrity.
- **Polishing Type:** UPC or APC polishing affects return loss and performance; APC is preferred for high-precision applications .
- **Environmental Conditions:** Consider temperature, humidity, and exposure to dust or moisture for industrial or outdoor deployments .

Summary

For high-quality attenuator-type optical attenuators, Viavi Solutions, DiCon Fiberoptics, ARCOptix, Santec, and EXFO are among the top manufacturers. They offer a range of fixed and variable attenuators suitable for laboratory, industrial, and network applications, with attention to precision, reliability, and compatibility with various fiber types and connectors . Selecting the right attenuator depends on your specific application requirements, including wavelength, fiber type, and environmental conditions.

Article Content

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

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

Top 10 Optical Attenuator Brand & Manufacturers

Top 10 Optical Attenuator Brand & Manufacturers This section provides a list of the top 10 Optical Attenuator manufacturers, Website

Optical attenuator

Optical attenuator Variable Optical Attenuator An optical attenuator, or fiber optic attenuator, is a device used to reduce the power

30 Best Attenuator Brands ~ TSCentral

The brand offers products like Wireless communications measuring instruments and optical sensing instruments primarily seen in the

Attenuators

Attenuators Optical attenuators reduce and control signal strength in fiber networks for precise power balancing. They prevent

Fiber Jumpers & Optical Attenuators

Attenuators absorb extra light energy and protect fiber optic receivers from being overloaded. Amphenol Broadband Solutions

The Ultimate Guide to Fibre Optic Attenuators

What Are Fibre Optic Attenuators? Fibre optic attenuators, also called optical attenuators, are passive devices used to reduce the

Optical Attenuators Manufacturers and Suppliers in the USA

Optical Attenuators Manufacturers and Suppliers in the USA and Canada Welcome to this comprehensive resource for Optical

Fiber Optic Attenuators

Fiber Optic Attenuator is a device that is used to reduce the power of an optical signal in a fiber optic communication system. Fiber

Fiber Optical Variable Attenuators

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

What Are Fiber Optic Attenuators | Amerifiber Guide

Learn what fiber optic attenuators are, how they work, and how to choose the right one. Explore Amerifiber's reliable

Optical Attenuator FAQs

Optical attenuators play a critical role in optimizing the performance of optical networks. By controlling the power levels of optical

Variable attenuators

MOA-3800 - Variable optical attenuator Single-mode and Multimode Variable Attenuator (VOA) can precisely add attenuation to four,

Attenuators

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

Variable attenuators

Variable attenuators Compact and rugged handheld attenuators to test and qualify optical systems during installation, turn-up or

Manual Variable Fiber Optical Attenuators

We produce two types of manual variable fiber optical attenuators: Regular fiber collimator-based version features unmatched low

Optical Attenuators

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