Where to find good fiber optic attenuators nationwide

Overview

During our fiber optic attenuator research, we found 24 fiber optic attenuator products and shortlisted 10 quality products.

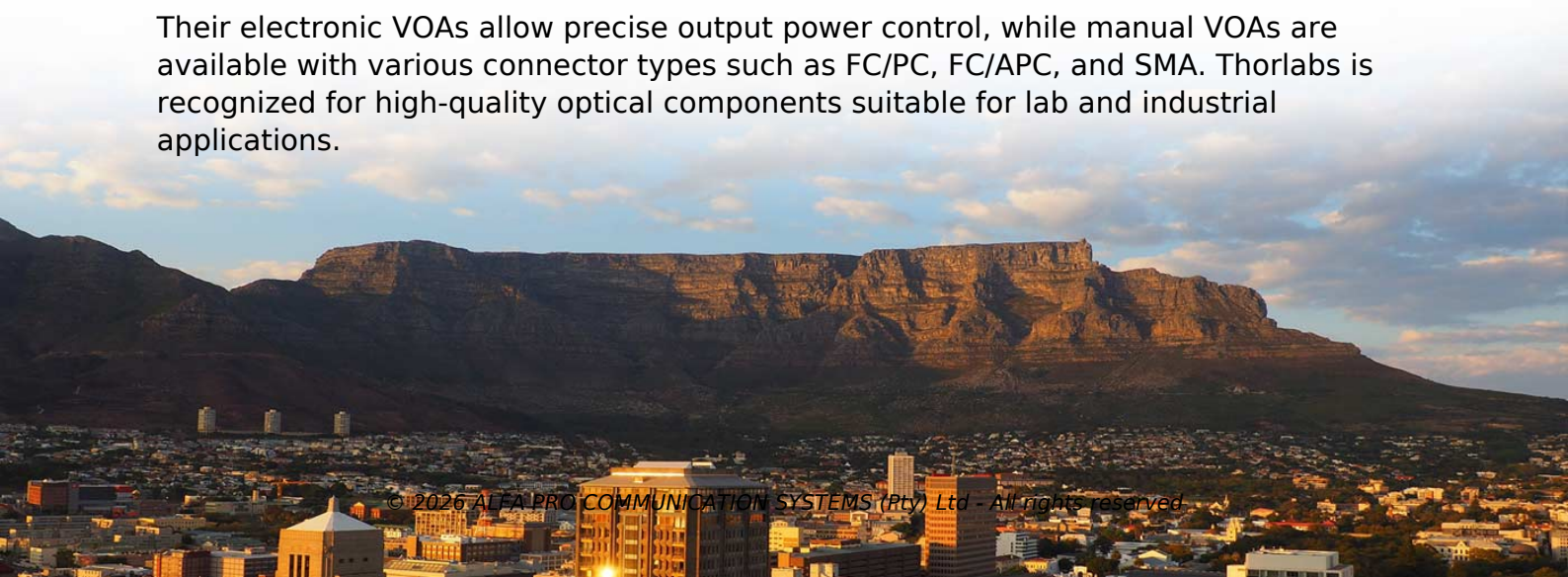
Key Takeaways

Top U. S. and internationally recognized fiber optic attenuators include Agiltron, Thorlabs, VIAVI, and DigiKey, offering both fixed and variable solutions for singlemode, multimode, and polarization-maintaining fibers.

Leading Manufacturers and Suppliers

Agiltron Inc. (Woburn, MA) provides a wide range of variable optical attenuators (VOAs), including fiber-to-fiber direct coupling for ultra-broad wavelength operation, electro-optic crystal VOAs for high-speed modulation, and fiber-bending mechanisms for extreme power handling up to 200 W. Their products are known for high accuracy, repeatability, and integration into programmable test systems (Agiltron). Thorlabs offers singlemode (SM), polarization-maintaining (PM), and multimode (MM) attenuators, both fixed and variable.

Their electronic VOAs allow precise output power control, while manual VOAs are available with various connector types such as FC/PC, FC/APC, and SMA. Thorlabs is recognized for high-quality optical components suitable for lab and industrial applications.



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VIAV

I Solutions provides a complete range of optical attenuators for field, lab, and manufacturing environments. Their products include compact handheld attenuators, high-resolution devices for analog systems, and photonic-layer solutions for production environments.

VIAV

I is noted for rugged, reliable attenuators with wide wavelength coverage.

Digi

Key serves as a major distributor, offering a large in-stock selection of fiber optic attenuators, including singlemode, dual window, and multimode types with various connector styles (SC, FC, ST, MU).

Digi

Key is valued for fast shipping and broad availability.

Key Features to Consider

Fixed vs. Variable Attenuators: Fixed attenuators provide a set level of signal reduction, while variable attenuators allow adjustable optical power control. Fiber Type Compatibility: Singlemode, multimode, and polarization-maintaining fibers require specific attenuator designs.

Connector Types: Common connectors include FC/PC, FC/APC, SC, SC/APC, ST, and SMA. Power Handling and Wavelength Range: High-power applications may require fiber-bending or electro-optic VOAs, while broad wavelength operation is critical for multi-band systems. Precision and Integration: Some VOAs include feedback electronics for stable, repeatable attenuation in automated test setups.

Additional Notable Suppliers

Other recognized suppliers include Santec, Senko Advanced Components, EXFO, Diamond SA, and Coractive, which provide specialized attenuators for telecom, lab, and industrial applications, often with advanced features like polarization control, high-precision calibration, and integration into optical test systems. These manufacturers and distributors represent the most reliable and widely used fiber optic attenuator solutions in the U. S. and internationally, suitable for applications ranging from laboratory research to high-power telecommunications networks.

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Article Content

Best Fiber Optic Attenuators of 2026

During our fiber optic attenuator research, we found 24 fiber optic attenuator products and shortlisted 10 quality products. We collected and

Choosing the Right Fiber Optic Attenuator

Helpful buying guide for fiber optic attenuators. Compare fixed and variable options, understand key parameters to consider and learn application-specific selection tips. Get insights on

Fiber Optic Attenuators: Wiki, Types, When and How to Use

Learn what fiber optic attenuator is, how it reduces the power level of an optical signal, different types of optical attenuators, and when and how to use them.

How to Choose the Appropriate Fiber Optic Attenuator?

Discover fiber optic attenuators and learn how to choose the right one for your needs. Explore key factors like cable type, connectors, wavelength, and attenuation value. Explore the best

What Are Fiber Optic Attenuators | Amerifiber Guide

In this guide, we''ll explain what fiber optic attenuators are, how they work, the different types available, and how to choose the right one for your system. You''ll also discover a few reliable

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Fiber Optics Tools, testing equipment, connectors, and kits with ...

Fiber Optics Tools, test equipment and patch panels. Low cost fiber optic hand tools, and kits for fiber optic testing, fiber optic connectors.

Fiber Optic Attenuators | Precision Signal Control Tools

Fiber optic attenuators control signal levels for stable, high-speed performance in fiber networks. Ideal for telecom, data centers, and test systems.

Fiber Optic Attenuators Suppliers in Illinois

Fiber optic attenuators are devices that reduce signal power in fiber optic links by inducing a fixed or variable loss. They are used to control the power level of optical signals at the outputs of light

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Fiber Optic Attenuators

We offer ST, SC, FC, and LC fiber attenuators with the following dB values 5, 10, 15, 20, and 25. Some of the Singlemode 1310/1550nm fiber optic attenuators have PC, UPC or APC polish.

Fiber Optic Attenuators: What They Are and When to Use Them

Also, by preventing overloading, attenuators can increase the lifespan of network components, while improving overall network cost efficiency. In this blog post, we delve into what fiber attenuators are

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 fixed and variable attenuator options.

Fiber Optic Attenuators: A Comprehensive Guide

This is where fiber optic attenuators step in as the unsung heroes, ensuring that optical signals travel with the right amount of power. In this comprehensive guide, we''ll delve deep into the

Fiber Optic Attenuators

ST/UPC Fiber Optic Singlemode Attenuator Male - Female Spec Sheet FiberOptic Supply'' fixed attenuators are offered in Optical pad attenuator (male to female) or bulkhead attenuator. They are

Best Fiber Optic Attenuators: Enhancing Signal Quality and Performance

In the world of fiber optics, maintaining signal strength and clarity is crucial for optimal performance. Whether you''re a telecommunications engineer, a tech enthusiast, or simply looking to enhance your

Principles and Selection Guide for Fiber Optic Attenuators

Explore the fundamental principles of fiber optic attenuators and gain insights into choosing the right type of optical attenuator to meet network requirements.

Fiber Optic Attenuators China Manufacturer

Discover Hello Signal''s comprehensive range of Fiber Optic Attenuators, available in SC, LC, FC, ST and other types. Our attenuators provide precise signal strength management for fiber optic systems,

Choosing the Right Optical Fiber Attenuator: Factors to Consider

Unsure which optical fiber attenuator to choose? Explore the key factors to consider when selecting an attenuator for your specific application or project.

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