Price of Attenuators and Fiber Optic Devices



Overview

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Key Takeaways

Fiber optic attenuators typically range from $5 to $50 per unit depending on type, connector, and attenuation value.

Pricing Overview

Fiber optic attenuators are available in fixed and variable types, with prices influenced by connector style (SC, LC, FC, ST), attenuation range (0. 1 dB to 60 dB), and application requirements. On popular electronics distributors: DigiKey offers a wide selection of fiber optic attenuators, with prices generally starting around $5–$20 for standard fixed attenuators and higher for specialized or high-precision models.

FS.com provides fixed and variable attenuators with attenuation ranges up to 60 dB, with prices varying based on precision and fiber type. Unikeyic lists attenuators for telecommunications, data centers, and testing, emphasizing that higher-quality or low-insertion-loss devices may cost more. Amazon also carries industrial and scientific fiber optic attenuators, often priced in the $10–$50 range depending on specifications.

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Factors Affecting Price

Connector Type: SC and LC connectors are common; LC attenuators are smaller and often used in high-density applications, sometimes slightly more expensive than SC.

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C connectors are durable and widely used in telecom networks, while ST connectors are older and may be cheaper. Attenuation Value: Higher attenuation values or ultra-precise devices (e.g., 0. 1 dB increments) generally cost more.

Variable vs Fixed: Variable attenuators, which allow adjustable signal reduction, are typically more expensive than fixed attenuators. Application Environment: Industrial or harsh-environment attenuators designed for reliability in extreme conditions can command higher prices.

Market Context

The global fiber optic attenuator market was valued at USD 208. 1 million in 2025 and is projected to grow at a CAGR of 7. 2% from 2026 to 2033, driven by increasing demand for high-speed internet, telecommunications, and data center applications.

This growth reflects both rising adoption and the availability of specialized devices, which can influence pricing trends.

Summary

For standard applications, expect $5–$20 for basic fixed attenuators and $20–$50 for variable or high-precision models. Prices vary by connector type, attenuation range, and intended use, with industrial-grade or ultra-precise devices at the higher end of the spectrum. Vendors like DigiKey, FS, Unikeyic, and Amazon provide accessible options for both small-scale and bulk purchases.

Article Content

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Optical Attenuators, Fibre Optic Attenuators

FS fixed and variable optical attenuators with leading attenuating fibres make sure consistent and stable fibre attenuation (0~60dB) in wdm transmission all the time.

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Fiber optic attenuators

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The Fiber Optic Attenuators market is experiencing steady growth, driven by the rising demand for high-speed internet and telecommunications infrastructure. As of 2023, the market size is ...

Projecting the Optical Fibre Components and Module Market''s

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Variable Fiber Optic Attenuators Types Prices & Technical Specifications

What Is Variable Fiber Optic Attenuators? Variable Fiber Optic Attenuators, or fiber optic attenuator, is a device used to reduce the power level of an optical signal, either in free space or in an optical fiber.

Fiber Optics Attenuators

Fiber Optics Attenuators - The Ultime Guide on How they work? An optical attenuator is a passive device used to reduce the power level of an optical signal, either in free space or in an

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Fiber Optic Attenuators Fiber optic attenuators are devices used to reduce or monitor the power level of a fiber optic signal. Basic types of fixed attenuation include single mode, dual window and multimode

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