

Price of optical attenuators



Overview

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Key Takeaways

Fixed optical attenuators typically cost between \$0.10 and \$5, while variable optical attenuators range widely from about \$16 up to \$800 depending on type, precision, and form factor.

Optical attenuators come in two main categories—fixed and variable—and their prices vary significantly based on connector type, attenuation level, technology (mechanical, MEMS, inline), and intended use (telecom, lab, field testing).

Price Ranges

1. Fixed Optical Attenuators

Typical pricing from suppliers:

- \$0.10–\$5 for common SC/LC/FC plug-in types.
- Some higher-quality or specialty fixed attenuators range up to ~\$15–\$40 depending on brand and packaging.
- Bulk manufacturing listings show similar ranges \$0.18–\$3.00.

2. Variable Optical Attenuators (VOA)

Prices vary more widely due to technology differences:

- Low-cost telecom VOAs: \$2.20–\$5.

- MEMS or integrated component VOAs: \$16-\$100.
- Handheld/benchtop test equipment VOAs: \$360-\$800.
- High-precision lab VOAs: often \$138-\$375+.

Summary

- Fixed attenuators: generally \$0.10-\$5, with premium units up to ~\$40.
- Variable attenuators: \$2-\$800, depending on whether they are inline, MEMS modules, or full handheld instruments. This pricing reflects the broad range of applications from simple signal trimming to high-precision optical testing.

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

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Optical attenuators are devices that reduce the optical power of a light beam by a fixed or variable amount.

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optical attenuators are indispensable components in fiber optic communication systems,

Optical Attenuators

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

Attenuators

Attenuators are used to weaken or control a transmitted optical signal and preserve the quality of that signal when the laser or

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Optical attenuator

An optical attenuator, or fiber optic attenuator, is a device used to reduce the power level of an optical signal, either in free space or

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