

Online Optical Attenuator Companies



Overview

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

Key Takeaways

Top optical attenuator companies include Viavi Solutions, DiCon Fiberoptics, ARCoOptix, Thorlabs, Santec, EXFO, and FS, offering both fixed and variable attenuators for fiber-optic applications.

- Viavi Solutions, Inc. – A top-ranked company providing optical attenuators and testing solutions for fiber-optic networks, including WDM systems and high-power laser diagnostics .
- DiCon Fiberoptics – Specializes in fiber-optic components, including fixed and variable optical attenuators for single-mode, multimode, and polarization-maintaining fibers .
- ARCoOptix S.A. – Offers precision optical attenuators and variable optical attenuators (VOAs) for laboratory and industrial applications .
- Thorlabs – Provides a wide range of single-mode, multimode, and polarization-maintaining fixed and variable optical attenuators, including electronic VOAs with FC/PC or FC/APC connectors .
- Santec – Known for optical testing equipment and devices, including tunable lasers and optical attenuators, with global subsidiaries in Japan, Europe, China, Canada, and the US .

- EXFO – Offers fiber-optic testing and measurement solutions, including optical attenuators for network performance evaluation .

- FS (Fiberstore) – Supplies fixed and variable fiber-optic attenuators with stable attenuation ranges (0–60 dB) suitable for WDM transmission systems .

Applications and Product Types

Optical attenuators are used to adjust optical signal strength, prevent receiver saturation, balance power in WDM systems, and perform bit error rate testing. They are available in:

- Fixed Optical Attenuators – Provide a constant attenuation level, often used in CATV systems or short-distance fiber links.

- Variable Optical Attenuators (VOAs) – Allow adjustable attenuation for testing, calibration, or dynamic network management.

- Fiber Types – Single-mode (SM), multimode (MM), and polarization-maintaining (PM) fibers.

- Connector Types – FC/PC, FC/APC, SMA, LC, SC, depending on the application .

These companies serve a wide range of industries, including telecommunications, data centers, laboratory research, and high-power laser diagnostics, providing both standard and customized optical attenuator solutions.

Article Content

23 Optical Attenuator Manufacturers in 2026

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Select the optical attenuator you need to simulate real-world optical link conditions, calibrate power levels, or automate signal

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