

Adjustable Attenuator Low Loss ODM



Article Overview

Adjustable low-loss attenuators are available for fiber optic and RF applications, with OEM/ODM customization options for branding, connector types, and attenuation ranges.

Overview

Adjustable attenuators are devices used to control and reduce signal levels in fiber optic or RF systems while maintaining signal integrity. Low-loss designs minimize insertion loss and preserve signal quality, which is critical in high-performance networks and CATV systems. These attenuators are available in fixed, step-wise variable, and continuously variable types, allowing precise control over attenuation levels from 1dB to 30dB.

Fiber Optic Adjustable Attenuators

- Connector Types: LC, SC, ST, FC, MU, E2000, and more.
- Wavelength Range: Typically 1250-1625nm for single-mode applications.
- Return Loss: High-performance models offer 55dB UPC / 65dB APC, ensuring minimal signal reflection.
- Configurations: Inline (female-to-female) or build-out (male-female) adapters for flexible integration.
- Applications: Optical communication networks, CATV systems, and testing environments where precise optical power control is required.

RF and Electronic Adjustable Attenuators

Article Content

RF Demystified: What is an RF Attenuator?

This article covers the basics of attenuator ICs, including the various types, design configurations, and key specifications you'll need

Attenuators – Mouser

Mouser is an authorized distributor for many attenuator manufacturers including Analog Devices, MACOM, Mini-Circuits, pSemi,

The Ultimate Guide to Fibre Optic Attenuators

Working Principles of Fibre Optic Attenuators Optical attenuators achieve the desired attenuation in optical fibre links in three

LBTEK-Single-mode Fiber Adjustable Attenuator

The LBTEK single-mode fiber adjustable attenuator features excellent environmental stability, high return loss, and low insertion loss,

RF Attenuators: Types, Benefits, and Advantages Explained

Explore RF attenuators: fixed, variable, chip, connectorized. Understand specs like frequency, attenuation, power, impedance.

Fiber Optic Attenuators (Fixed & Variable, FC/SC/LC)—Low-loss ...

Available in fixed (FC, SC, LC housing) and variable (stepwise or continuously adjustable) formats, they offer accurate, low-loss

The Ultimate Guide to Fiber Optic Attenuators

Fixed attenuators typically have low insertion loss, while variable attenuators may have slightly higher insertion loss due

RF Attenuators | Analog Devices

Analog Devices' RF attenuators are available in broad range of architectures and factors, giving designers the flexibility to select part

Optical Attenuators, Fixed & Variable Available

FS fixed and variable fiber optic attenuators with leading attenuating fibers guarantee consistent and stable fiber attenuation

Fiber Optical Variable Attenuators

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

Single mode Attenuators

Available in FC, SC and LC (short form factor) connector styles with UPC or APC finish and ST connector styles with UPC finish,

DC to 50 GHz MMIC Low Power Voltage Controlled Attenuator

Application The MMS004AA MMIC voltage controlled attenuator is ideal for high frequency and broadband applications in test

Optical Attenuators | Keysight

Keysight attenuators offer low insertion loss, low polarization-dependent loss (PDL), and high resolution across a wide attenuation

RF Attenuators

High IIP3, 50 dBm Low Insertion Loss Good VSWR, 1.5:1 typ. Glitch-less attenuation transitions Dual or Single supply voltage:

Variable Optical Attenuator with Configurable Adjustment

A fiber optic type variable optical attenuator has the advantages of simple structure, low insertion loss, low cost, and easy to interface

Attenuators | OZ Optics Ltd.

Our attenuators are wavelength insensitive, which means they operate with minimal changes in attenuation when used in either the

RF Coaxial Attenuators and Terminations

Manufactured to exacting standards, Fixed RF Attenuators and Terminations provide low voltage standing wave ratio (VSWR) and

RF Attenuator Circuit Design | Tutorials on Electronics | Next Electronics

Fixed Attenuators: Provide a constant attenuation value, often used for impedance matching or signal reduction. Variable

Variable Optical Attenuators

Variable optical attenuators, used in fiber communications, vary light attenuation. The article discusses operation principles and

Adjustable Attenuator 0-20dB

Adjustable attenuator for receivers and instrumentation systems up to 1000 MHz. With it's precisely adjustable attenuation of 0 to 20

Attenuators

There are two types of (electronically) adjustable attenuators: digital and voltage controlled. Digital Attenuators As the name implies,

A Wideband Low-Loss CMOS Attenuator With dB-Linear Gain Tuning

Abstract: This brief presents the design of a wideband low-loss attenuator at W band. The reflective-type attenuation topology is

RF Variable Attenuators

Variable attenuators provide continuously or step-adjustable loss to set path gain or emulate fading while maintaining good return

RF Demystified—What Is an RF Attenuator? | Analog Devices

Types of Attenuators From the key functional perspective, attenuators can be classified as fixed attenuators with an unchanging level

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