

ATT Adjustable Attenuator



Article Overview

Yes, an ATT can refer to an adjustable attenuator, which allows the signal attenuation level to be varied either continuously or in discrete steps.

An attenuator (ATT) is a device that reduces the power of a signal without significantly distorting its waveform, and it can be either fixed or adjustable. Adjustable attenuators come in several forms: step attenuators, which provide discrete, pre-calibrated attenuation levels, and continuously variable attenuators, which allow smooth adjustment of attenuation using a potentiometer or voltage control. In RF applications, variable attenuators can be analog (voltage-controlled) or digital (using discrete steps controlled by switches or microcontrollers). Key types of adjustable attenuators include:

- **Voltage Variable Attenuators (VVAs):** Provide continuous analog control of attenuation, often used in automatic gain control and calibration circuits.
- **Digital Step Attenuators (DSAs):** Offer discrete attenuation levels, controlled digitally, suitable for programmable or microcontroller-based systems.
- **Manual Step or Rotary Attenuators:** Allow the user to select attenuation levels manually, commonly used in audio and test equipment. Adjustable attenuators are widely used to balance signal levels, protect sensitive components, extend dynamic range, and implement precise calibration in both RF and audio systems. Therefore, if "ATT" is used in a context where variable signal control is needed, it often refers to an adjustable attenuator.

Article Content

10W 90dB Adjustable Push Button Step Attenuator | Rfshieldingbox

AT3005 is a 90dB Adjustable Push Button Step Attenuator rated from 5 to 10 Watt and operates at DC 2.5 GHz. Our RF attenuators

High Power Attenuators

High power attenuators from Pasternack includes a wide range of attenuation and connector options. These 100 Watt high power RF

Attenuators | RF and Wireless | DigiKey

Attenuators are designed to reduce the power of a signal with minimal effect on its waveform. The attenuation value ranges from 0

RF Attenuators – Field-Proven Performance | Bird –

Built to handle high power and harsh environments, our attenuators help prevent overload, reduce

What is an Attenuator and Why Would you Need One?

An attenuator keeps a certain amount of signal passing through. Solid Signal lets you know if you need an attenuator

ATT-20 Variable Attenuator

ATT-20 Variable Attenuator useable frequency range: 0,1 - 1000 MHz attenuation: 0 to 20dB continuously variable control: 3 turns of

RF Attenuators: Types, Benefits, and Advantages

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

Everything You Need to Know About RF and Voltage

Discover everything about RF and voltage variable attenuators, including their range,

ATT-100VI

Attenuator card with transformer for the floating adjustment of 100-Volt signals to line level. The attenuation is customisable by

RF Attenuators | DigiKey

A look at RF attenuators – their function, why they are used, and the different types available along with a guide of the

RF Variable Attenuators

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

RF Attenuators

View the pSemi 2025–2026 Product Catalog to see our complete RF and power products portfolio.

Fiber Optic Attenuator | Inline | Signal Control

This device is an iris attenuator which controls light throughput to avoid detector saturation. The ATT-INL

Attenuators

Browse a wide selection of variable attenuators with digital or analog control, all providing a wide selection of

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

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

Attenuators

Attenuators weaken or attenuate the high level output of a signal generator, for example, to provide a lower level signal for something

Adjustable Attenuator

Adjustable Attenuator 536x is a family of variable passive waveguide attenuators based on ACST high-precision manufacturing

RF Attenuators

Over 400 attenuator models for 50-Ohm & 75-Ohm system including fixed, high-power, digital step / programmable, voltage variable

RF Attenuators

Over 400 coaxial, surface mount, and MMIC attenuator models for 50-Ohm & 75-Ohm system including

What is RF Attenuator: Types, Benefits & Manufacturers

An RF attenuator is a passive component that reduces signal power without significantly distorting waveform characteristics.

50 GHz Adjustable RF Attenuator | SHF's New Products

In view of this need, SHF is delighted to introduce a high bandwidth adjustable attenuator product addressing these

RF Attenuators | Analog Devices

Analog Devices' RF attenuators are available in a broad range of architectures and form factors, giving

Attenuators

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

Attenuators | Fibertronics, Inc.

Fiber optic attenuators available for use in single mode 9/125, multimode 50/125 and multimode 62.5/125 applications. We also offer

Attenuators | Amplifiers and Active Devices | Electronics Textbook

Attenuators weaken or attenuate the high level output of a signal generator, for example, to provide a lower level signal for something

Attenuators | RF and Wireless | DigiKey

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What is an RF Attenuator

FET RF attenuators: FET attenuators can be used in attenuator designs where a continuously variable level is required. Like a PIN

Voltage Variable Attenuators

Voltage Variable Attenuators (VVA) from MACOM offer the ability to control the attenuation level relative to a voltage. Attenuation

AT8202 Adjustable In-line Attenuator | Audio-Technica

The Audio-Technica AT8202 Adjustable In-line Attenuator is designed to prevent balanced low-impedance microphones from

Contact Us

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