

New Adjustable Attenuator for Mining



AI Overview

Adjustable attenuators for mining improve signal control and noise reduction, with solutions available for both RF networks and generator noise management.

RF and Leaky Feeder Applications

The Becker Mining Systems smartcom® 450 In-line Attenuator is designed for mining communication networks, particularly Leaky Feeder systems. It allows precise adjustment of signal loss at any point along the network, improving voice and data performance by reducing system noise and maintaining minimal losses between components such as line amplifiers and Ethernet devices. The device features a single PCB housed in a glass fiber reinforced polyester enclosure and includes two RF connections for easy installation with UHF coaxial radiating cables. Mini-Circuits also offers digital step attenuators (DAT series), which provide adjustable attenuation from 0 to 15.5 dB in 0.5 dB steps. These devices use a CMOS process for high performance and can be controlled via a 5-bit serial/parallel interface, making them suitable for precise RF signal management in mining communication systems.

Noise Management for Mining Equipment

For generator and machinery noise reduction, Minetek provides generator attenuators that target both low-frequency exhaust noise and high-frequency radiator fan noise. The exhaust system uses dual-skin mufflers, flexible bellows, and pipework to absorb engine noise, while the radiator attenuator incorporates sound-reduction media to minimize fan noise without restricting airflow. These solutions can reduce noise levels by up to 50%, enhancing operator safety, regulatory compliance, and c...

Article Content

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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

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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

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Attenuator

Our flexible solutions allow noise to be effectively managed in mobile mining machinery, with innovative engineered solutions

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Attenuator Circuit Designs: Passive to Programmable

Attenuator design: covering passive resistor-divider to advanced programmable designs, with different types, and

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Minetek Sound Launches M-STEALTH Sound Attenuation:

Minetek enables the world's quietest mining equipment and machinery, reducing site noise levels by up to 50%. Our

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Variable Optical Attenuator | Kingfisher International

Introducing a NEW family of hand-held fiber optic test attenuator instruments commonly used for testing optical system margin and

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Attenuators

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

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Geobruigg launches new software tool ATTERO for rockfall mitigation ...

Attenuators are ideal rockfall protection when there is space for a runout of the falling rocks. For its attenuator series,

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Geobruigg develops world's first dimensionable rockfall

Geobruigg has developed together with international experts an attenuator protection

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Mini Circuits, Attenuators

Mini-Circuits is a global leader in the design and manufacturing of RF, IF, and microwave components from DC to 86GHz.

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Manually Variable Attenuators

JFW has a variety of 50 Ohm and 75 Ohm manually variable attenuator types: Rotary attenuators,

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Attenuators | Fibertronics, Inc.

Our in-line attenuator is customized to match the desired length and connector type specified by customers. The adjustable

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RF Attenuators

RF Attenuators Select a category to view products and companies Attenuators reduce signal amplitude in a controlled manner to set

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Looking for perfect tube amp tone at any volume? Compare the top 6 amp attenuators in

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Attenuators

by Rinchen Athup | Oct 24, 2025 | Attenuators, Engineering Resources, Product Updates 100 MHz to 24 GHz Digital

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The Ultimate Guide to Fibre Optic Attenuators

To reduce the power in fibre links, fibre optic attenuators are leveraged. This white paper will shed light on the types, working

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Fiber Optic Attenuators

More expensive, but useful for testing, are variable attenuators which are adjustable between 1dB and

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How to choose mining sound attenuation in 2026 | Minetek

Compare mining sound attenuation and noise reduction technology for operations in 2026: compliance, performance

Dec 30, 2025

Innovative Generator Attenuators for Noise

At Minetek, our Generator Attenuators stand as a pinnacle of innovation and reliability in noise

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Rockfall ATTENUATOR

ATTENUATOR barriers dissipate the energy of rockfalls and direct rocks into the catchment zone. The system allows removal of

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Fixed fiber attenuator, Variable optical attenuator for attenuation ...

HeyOptics fiber attenuator use leading attenuating fibers to guarantee stable fiber attenuation (0~60dB) in long-haul DWDM network

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Attenuators - Mouser

Attenuators are in stock with same-day shipping at Mouser from leading manufacturers. Mouser is an authorized distributor for many

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Rockfall Attenuators

Rockfall attenuators allow controlled movement of falling rock, directing debris safely to designated collection areas. Unlike rigid

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Adjustable-Period Seismometers for Deep Mining Operations

Discover how adjustable-period seismometers deliver reliable underground monitoring in harsh deep mining conditions.

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RF Attenuators & MIL-SPEC Attenuator Manufacturers

View RF attenuator manufacturers & suppliers of MIL-SPEC attenuators, including fixed,

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RF Attenuators

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

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UHF-ATT UHF In-Line Attenuator

Becker Mining Systems smartcom® 450 In-line Attenuator provides a means of easily and accurately adjusting the loss at any point

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Fiber Optic Attenuators: What They Are and When to Use Them

In these situations, network administrators should install fiber attenuators to reduce optical power levels. Attenuators enable the fine

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What is an Attenuator – Overview, Types and Applications

Explore what an attenuator is, its types, and applications in telecommunications, audio systems, RF, and more.

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Exploring Optical Attenuator Types and Applications: A

Fixed optical attenuators provide a constant level of attenuation, whereas variable optical

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RF Attenuators

RF Attenuators Fixed, Digital Step, Voltage Variable, & Programmable Over 400 coaxial, surface mount, and MMIC attenuator

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Adjustable Attenuators Market Research Report 2034

Adjustable Attenuators Market valued at \$1.62 billion in 2025, projected to reach \$3.01 billion by 2034, growing at 6.8% CAGR.

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Fiber-optic Attenuators – fixed or variable attenuation,

Fiber-optic attenuators adjust optical signal power levels, for example in fiber-optic links. The degree of

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Push Button Attenuators

RF Variable Attenuators and Adjustable Phase Shifters We offer a robust portfolio of in-stock, adjustable

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Programmable Attenuators

Mini-Circuits" compact programmable attenuators are designed with wide attenuation ranges up to 120 dB and fine step sizes for

Contact Us

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